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(54) SYSTEM AND METHOD FOR EVALUATING JOB CANDIDATES

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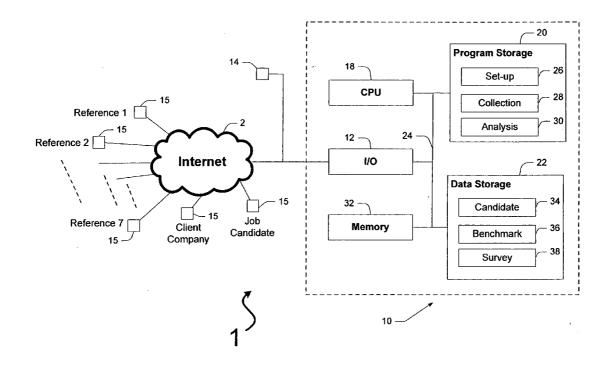
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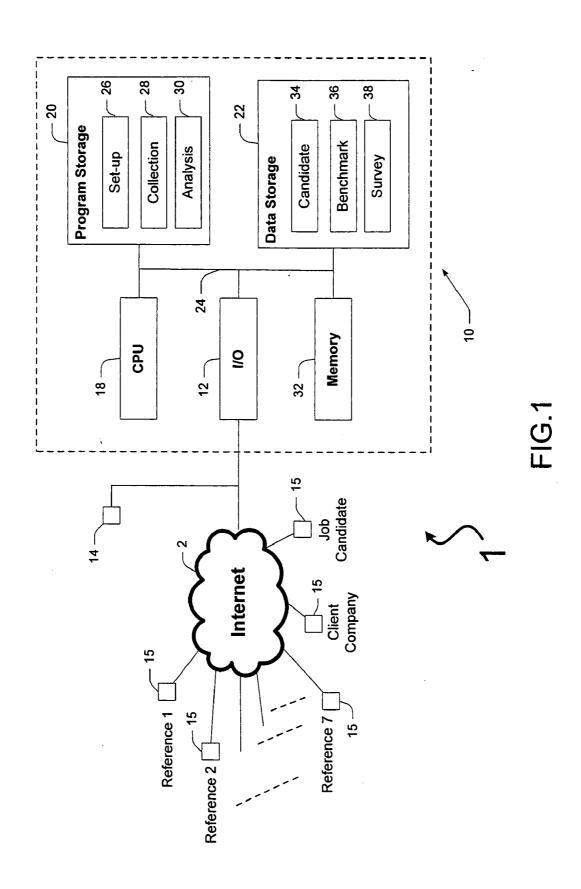
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ABSTRACT (57)

Human resource system for collecting and analyzing survey data from reference providers identified by a job candidate for use by an employer. The system sends an electronic communication to the reference providers to request completion of survey questions and electronically receives the survey data from the reference providers, preferably through webpages. An analysis module combines the received survey data from the reference providers and generates a confidential candidate report for an employer which excludes identification of any ratings or comments by any reference providers. The system also generates customized interview probe questions for use during job interviews and coaching tactics for use after the hiring, based on the weak areas that have been identified from the completed surveys in order to assist the hiring manager to bring the new hires up to speed quickly and effectively.





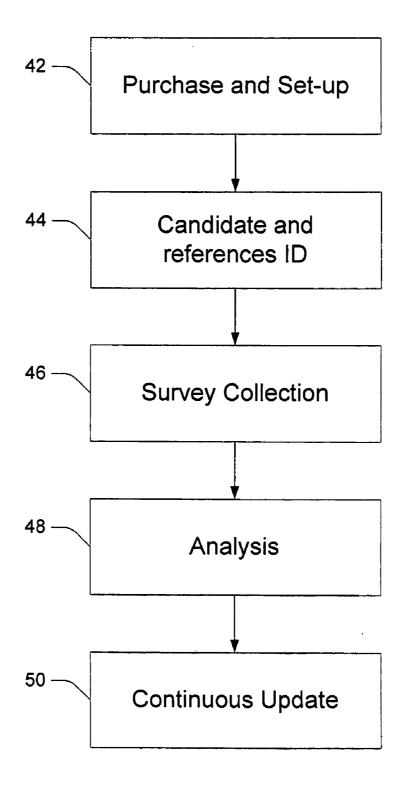


FIG. 2

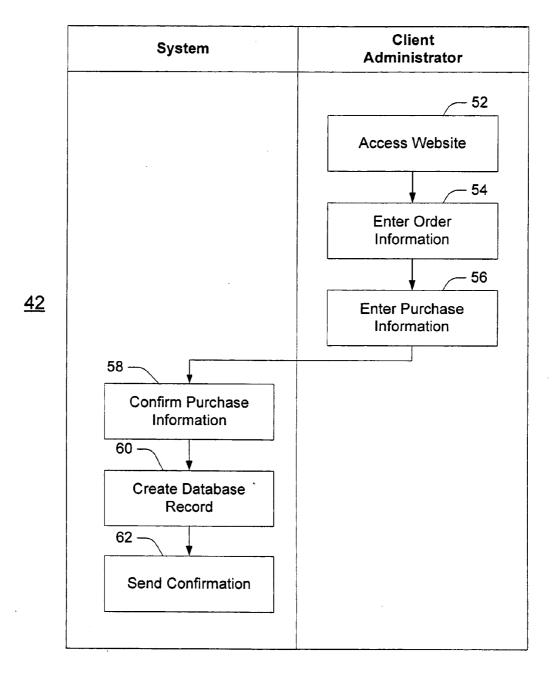


FIG. 3

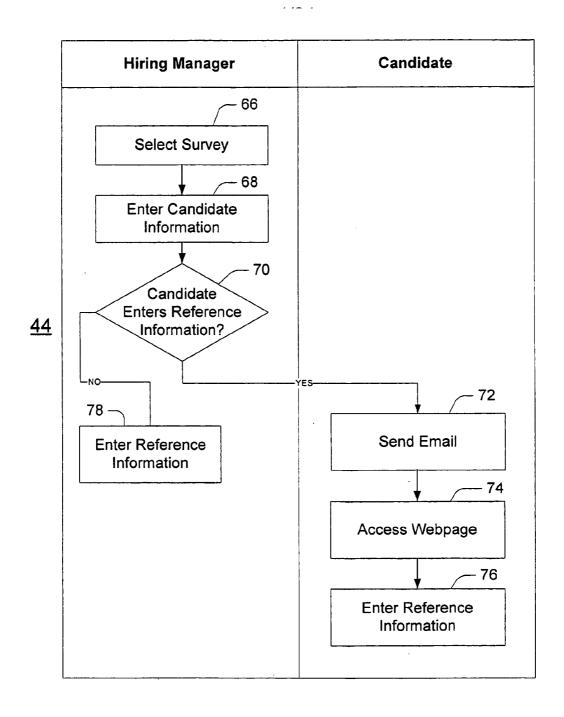


FIG. 4

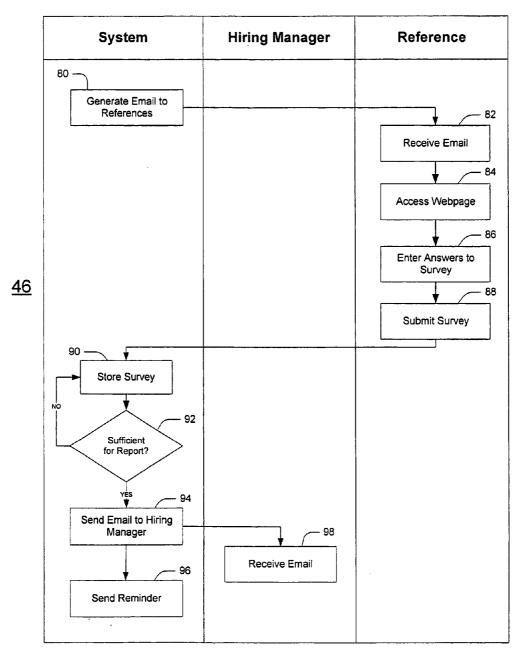


FIG. 5

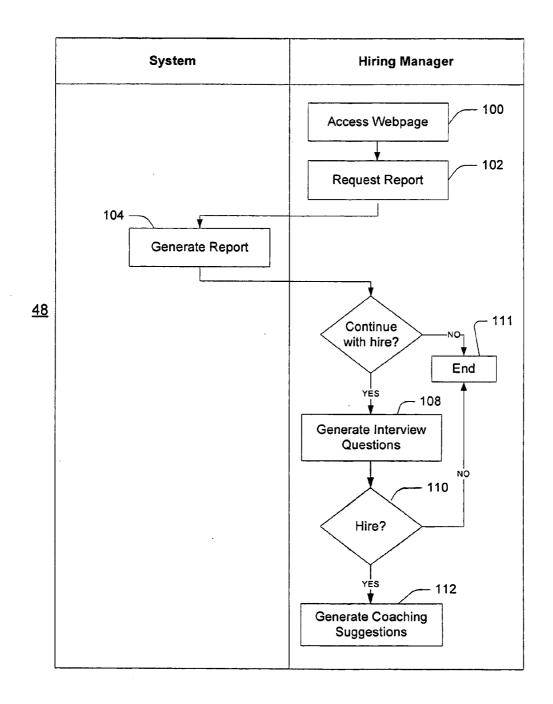


FIG. 6

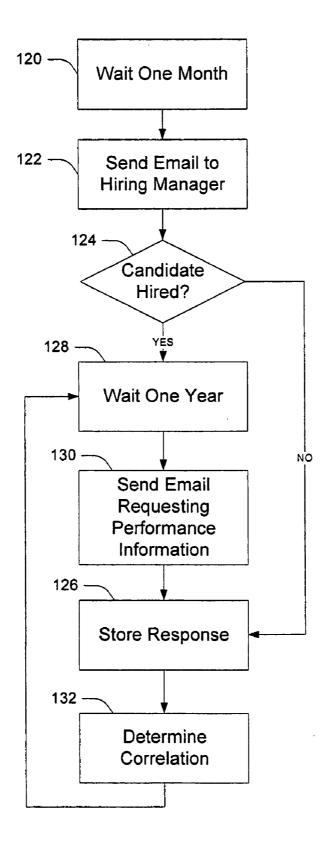


FIG. 7

TO ANSWER QUESTIONS:

Please answer each question throughout the survey by clicking on the appropriate button under the number that best describes the extent to which you feel Mark Candidate uses these skills.

If you cannot answer a particular question please leave it blank.

AS YOU READ EACH QUESTION, PLEASE KEEP IN MIND:

EXTENT SCALE

1 Never	2 Little Extent	3 Some Extent	4 Moderate Extent	5 Great Extent	6 Very Great Extent	7 Always

NOTE - By scoring a candidate a "7" on any item, you are indicating that the candidate uses the skill at all times and under all circumstances. By scoring a "1" you are indicating that they never use this skill under any circumstances.

Your responses are personal and do not reflect the views of any company/organization to which you belong now or to which you have belonged in the past.

- -	Never			Alwa				
_	what extent does Mark Candidate	_ 1	2	3	4	5	6	7
1.	Focus resources and energy on activities that will achieve the greatest results?	0	0	0	0	0	0	0
2.	Show resourcefulness in getting results under new or undefined business conditions?	0	0	0	0	0	0	0
3.	Continue to pursue goals despite problems and setbacks by demonstrating confidence, persistence, and a sense of urgency?	0	0	0	0	0	0	0
4.	Seek commitment rather than passive acceptance to goals and priorities in working with others?	0	၀	0	0	0	0	0
5.	Work with others to establish clear and realistic roles, responsibilities, and goals, as well as effective plans to reach goals?	0	0	0	0	0	0	0
6.	Value and accommodate diversity?	0	0	0	0	0	0	0
7.	Listen intently to fully understand the needs and perspectives of others?	0	0	0	0	0	0	0
8.	Demonstrate a genuine commitment to helping other people improve their effectiveness and succeed (e.g., by fully sharing information, expertise and resources), rather than always serving his/her own needs?	0	0	0	0	0	0	0
9.	Give helpful and constructive (rather than negative or punishing) feedback on the performance of others?	0	0	0	၀	0	0	0
10.	Recognize and praise others' efforts and accomplishments?	0	0	0	0	0	၀	0
11.	Focus on getting results for the business rather than on "turf" issues?	O	0	0	0	C	0	0
12.	Work to build strong networks with peer level managers, boss, and all support areas?	0	0	0	0	0	0	0
13.	Encourage team members to develop strong positive relationships with each other?	O	0	0	0	0	0	0
14.	Show support for the organization, its values, and its goals?	0	0	0	0	C	C	0
		0	0	0	0	0	0	0
16.	Demonstrate high standards of personal integrity and credibility?	0	0	0	0	0	0	0

FIG. 8A

COMMENTS

No matter how you rated Mark please type in below at least one area of "Strength" and one area in which the candidate "Could Improve."

This information is also anonymous. No one will be identified in the report as having written the comment.

Strengths:	•
	R
	<u> </u>
Could Improve:	
	52

FIG. 8B

Dear Mark,

Congratulations on your opportunity to become a District Manager with Alpha Insurance Co.. As already explained to you, a critical step in the selection process is to electronically survey your references. SkillSurvey, a leader in Web-based referencing, is the third-party service bureau that conducts this survey.

Click on the link below. It takes you to an on-line form where you can review a sample of the survey questions and input the information on the references you choose. Skillsurvey will automatically send the appropriate survey to these references. Responses will be e-mailed directly to SkillSurvey, averaged together and sent to Alpha Insurance Co.'s hiring manager/administrator in the form of a report.

Please click on the link (URL) below to begin: http://www.skillsurvey.com/eRef/email.php?CID=FXY3smlw5fONq3q2&S=1

Questions regarding eReference can be directed to customerservice@skillsurvey.com. For more information regarding SkillSurvey, please visit www.skillsurvey.com.

Thank you,

Alpha Insurance Co.

FIG. 9

Mark Candidate is applying for a District Manager position with Alpha Insurance Co., and has provided your name as a reference (along with at least 6 others) who has insight into his/her skills. Mark has authorized us to send you an esurvey. Your confidential survey responses will be e-mailed directly to SkillSurvey, a third-party service bureau and a leader in Web-based reference surveys.

SkillSurvey's policy is to maintain strict confidentiality of responses. Under normal circumstances, neither Alpha Insurance Co. nor Alpha Insurance Co. will see your responses because SkillSurvey averages all responses together to produce the report. We will not produce a report without responses from at least three reference providers to ensure complete confidentiality of data.

The survey is very quick and easy (about two minutes to complete). Simply click on the best numerical response for each of the 16 questions.

Alpha Insurance Co. makes selection decisions based on a number of different criteria. The reference survey information, although important, is only one of the many factors considered.

Take the survey by clicking on the link (URL) below: http://www.skillsurvey.com/eRef/survey.2.php?QID=RYGsl

Questions regarding eReference can be directed to customerservice@skillsurvey.com. For more information regarding SkillSurvey, please visit www.skillsurvey.com

Thank you for your time,

Alpha Insurance Co.

FIG. 10

eReference Report: Tim Connington Management Position Survey Report Date: October 23, 2003

Section One: Reference Information - Tim Connington

Submitted to Candidate on: October 22, 2003

References Submitted by Candidate: October 22, 2003 Number of References: 9 Number of Responses: 7

-						
Name	Email	Company/ Organization	Type Of Reference	Worked as Candidate's	Dates	Completed Survey
Roger Brown	rbrown@companya.com	Company A	Business	Manager/ Supervisor	01/00 To 02/03	√ 10/23/03
	Changes:				02/00 To 02/03	
Ryan Holcom	rohclu36@aol.com	Company A	Business	Manager/ Supervisor	01/00 To 02/03	10/22/03
Dick Parker	dparker@companya.com	Company A	Business	Subordinate/ Direct Reports	06/00 To 02/03	√ 10/22/03
John Doen	jdoen@companya.com	Company A	Business	Subordinate/ Direct Reports	08/00 To 02/03	√ 10/22/03
	Changes:			Peer/ Colleague		
Bertha McLaughlin	bmclaughin@companyb.com	Company B	Business	Subordinate/ Direct Reports	10/96 To 12/99	No
Stanley Keizerton	smanstan@yahoo.com	Company B	Business	Subordinate/ Direct Reports	10/96 To 12/99	10/22/03
Janet Kinder	jkinder@companyb.com	Company B	Business	Peer/ Colleague	09/98 To 12/99	No
Jack Brown	jbrown@companyc.com	Company C	Business	Client	01/9 4 To 6/98	√ 10/23/03
Delia Byers	dbyers@companyc.com	Company C	Business	Subordinate/ Direct Reports	01/94 To 06/98	10/23/03

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Section Two: Survey Scores - Tim Connington

The score for each competency was calculated by averaging the numerical responses and, based on research of probable reference responses, converting the average into a "very low" to a "very high" score. The following report displays the competencies and their scores grouped into themes (similar or related skills) to give you insight into the candidate's relative strengths in key performance areas. The scores with the lowest numerical averages are indicated using bold type and asterisks. This report is followed by comments gathered anonymously from the references regarding the candidate's strengths and areas where he/she "could improve"

- Very low or low score Candidate seen as not having skill in this competency. If it is critical to the job, his/her ability to be successful in the job may be seriously impacted.
- Medium score Candidate is seen as having some skill in this competency. However, he/she is seen as needing more skill or experience to be effective.
- High score Candidate is seen as skilled in the competency but has room for improvement.
- Very High score A "very high" score is an endorsement of perceived mastery in the competency.

FIG. 11B

Report – [Tim Connington]				
Competencies	Ratings from References	Company Comp.	Industry Comp.	Overall Rating
Managing the Business				
Focus resources and energy on activities that will achieve the greatest results	Medium	High	Medium	Medium
Show resourcefulness in getting results under new or undefined business conditions	High *	Medium	Low	Medium
3. Continue to pursue goals despite problems and setbacks by demonstrating confidence, persistence and a sense of urgency	Medium	Medium	Medium	Medium
Managing the Business Average:	High	Medium	Medium	Medium
Managing People				
Seek commitment rather than passive acceptance to goals and priorities in working with others	High	High	Medium	High
 Work with others to establish clear and realistic roles, responsibilities and goals as well as effective plans to reach goals 	High	High	Medium	High
Value and accommodate diversity	High	High	High	High
Listen intently to fully understand the needs and perspectives of others	Medium *	High	Medium	Medium
 Demonstrate a genuine commitment to helping other people improve their effectiveness and succeed (e.g. by fully sharing information, expertise and resources), rather than always serving his/her own needs 	Medium	Medium	Medium	Medium
Give helpful and constructive (rather than negative or	√ High ★	High	Medium	Lliah
punishing) feedback on the performance of others		High		High
10. Recognize and praise others' efforts and accomplishments	Medium	Medium	Medium	Medium
Managing People Average:	High	High	Medium	High
Teamwork				
11. Focus on getting results for the business rather than on "turf" issues	Medium	High	Medium	Medium
 Work to build strong networks with peer level managers, boss and all support areas 	High *	High	Medium	High
Encourage team members to develop strong positive relationships with each other	Medium *	High	Medium	Medium
Teamwork Average:	Medium	High	Medium	Medium
Leadership				
14. Show support for the organization, its values and its goals	High	High	Medium	High
15. Take personal responsibility for his/her actions and results, without blaming others or making excuses	Medium	Medium	Medium	Medium
 Demonstrate high standards of personal integrity and credibility 	High	High	Medium	High
Leadership Average:	High	High	Medium	High
1	High	High	Medium	Medium

FIG. 11C

Comments on Tim Connington's "Strengths" and "Could Improve" areas

Strengths:

- · "Achieving success quickly in new challenges."
- "Compassion, focus, caring, goal-oriented, strives to get the best out of each person, so they can reach their maximum potential."
- "Excellent business person. Honest and caring. Does what is promised. Very professional in all dealings. Has great respect in the community in civic and business matters."
- "Tim is the finest Manager I have ever had the privilege of working with. His strongest skill
 is the ability to bring a team together with a sense of cause and resolve."
- "Tim gets his strength from his ability to divide long term goals into achievable shorter term goals thus inspiring enthusiasm in team members."
- "Tim has the proven ability to consistently develop very successful business units."
- "Tim is the best manager I have ever met. I've been in business 20 plus years and I have counted on him not only to give me information on insurance, but to give me advice on managing. He is extremely good, especially in difficult situations."
- "Tim is very adept at helping producers recognize their natural markets, then assisting them with a marketing and goal setting plan."
- "Tim understands the market and the overall business we are in. He has great passion for what he does & is committed to achieving success at all cost. He is a very good General Sales Manager and is well respected by his peers in this business."

Could Improve:

- "Getting involved in issues with co-workers that are outside of business...trying to help people at work in problems that are not business related."
- "If I had to give one criticism of Tim, it would be that he gives people one more chance than
 I would. He so believes in his people, I think he takes it personally when they don't
 succeed."
- "In his ability to understand and accept that not everyone can work at his skill level."
- "Self confidence"
- "Should take more vacations. Works a great deal helping others."
- "Tim has so many strengths that they mask his weaknesses well. Tim could probably improve his ability to listen to others and make others feel their ideas have merit."
- "Tim is generous almost to a fault in personal relationships and should look to his own needs a little more."
- "Tim is such a strong agent advocate that, on occasion, he will persist with "minutia" in order to prove that his position was on target"

FIG. 11D

Behavioral Interview Questions

These questions focus on the candidate's lower scoring competencies (those where the numerical averages where lowest). Use them during future interviews to find out more about the candidate's skills, abilities and experience in these competencies. Click here to find out more about behavioral interviewing techniques.

Question 1. Focus resources and energy on activities that will achieve the greatest results.

Probing Questions:

Ask: Talk about a time when you had to work with limited resources. How did you maximize the effectiveness of the resources you had? How did you know what activities would get you the "biggest bang for the buck"?

Look for: Ability to look at the big picture, to set priorities accordingly, and to let that perspective drive allocation of resources. Ability to resist distraction when there are multiple tasks at hand.

Question 2. Show resourcefulness in getting results under new or undefined business conditions.

Probing Questions:

Ask: How have you successfully managed situations where conditions or expectations were ambiguous, ill-defined, or otherwise difficult to perceive - whether it was because you were new to the situation, or because no one else knew what was going on either? How did you get the information you needed to proceed? What was most difficult about that kind of situation, and how specifically did you cope with it?

Look for: Resourcefulness in dealing with ambiguity or lack of definition. Adaptability and flexibility in the face of uncertainty. Self-confidence in one's abilities, combined with a willingness to learn.

Question 7. Listen intently to fully understand the needs and perspectives of others.

Probing Questions:

Observe during Interview: How well does the candidate listen to you? Does he/she consider what you are saying? Does he/she use body language, including eye contact, body position, etc. in a way that indicates engagement in the conversation?

Look for: Ability to focus attention on someone who is speaking to them. Ability to summarize another's point of view, and reflect it back. Willingness to yield "air time" to another.

Question 9. Give helpful and constructive (rather than negative or punishing) feedback on the performance of others.

Probing Questions:

Ask: Describe a time when you helped a staff member or co-worker turn unsatisfactory or problem performance around, or brought to their attention a problem with the way they worked. How did you approach them, how did you address the problem, and how did the employee respond in terms of behavioral change?

FIG. 12A

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Look for: Willingness to address performance issues head-on and in a timely manner. Ability to address others' shortcomings in a positive way, and encourage positive change. Understanding that when employees perceive they are being "criticized," it usually lowers their motivation and future performance, and weakens the relationship with the person giving the feedback.

Question 12. Work to build strong networks with peer level managers, boss, and all support areas.

Probing Questions:

Ask: How have you utilized your relationships with peers and colleagues in the company to further your area's goals? Tell me about a time when you were able to leverage the networks that you had built within your company to accomplish a particular task. What went into establishing those networks in the first place? What specifically did you do?

Look for: Ability to maintain and leverage peer-level relationships. Appreciation of the importance of establishing and maintaining internal networks. Understanding that this maintenance relies on: expectations that are clear to all parties; mutual commitment to common goals; constant attention to ensuring that the other person's needs are being met; and lots of ongoing communication and follow-through to maintain trust.

Question 13. Encourage team members to develop strong positive relationships with each other.

Probing Questions:

Ask: What have you done to bring your team members into closer and more effective relationships? What challenges have you had to overcome to make your team members work together smoothly?

Look for: Awareness of, and ability to deal with, interpersonal relationships within teams, while not getting distracted from business goals by "soap operas." Understanding that strong, successful teams that are characterized by trust and cooperation rather than conflict and jealousy get consistently superior business results. Realization that fostering competition between team members, while sometimes attractive to a manager, has many downsides, and competition can degenerate into backstabbing and conflict.

FIG. 12 B

Coaching Tactics

Question 1. Focus resources and energy on activities that will achieve the greatest results.

Coaching Tactics

Coach the new manager to do the following:

- To ensure that all decisions, plans and activities are on target and will achieve the greatest results, first define the outcome you are working towards - the results you will get by completing the task or dealing with a problem.
- When fixing problems or working on tasks, always ask yourself and your staff: "What is the outcome expected from this?"
- Keep larger, longer-term business outcomes (e.g., better service, cost control) in mind as "touchstones" for all your activities.
- Be sure that your short-term outcomes support longer-term directions. When you define short-term outcomes, ask: "What larger outcome is this supporting and actively moving me towards the accomplishment of?" If the answer isn't clear, you may need to reassess what you are doing.

Question 2. Show resourcefulness in getting results under new or undefined business conditions.

Coaching Tactics

Coach the new manager to do the following:

- Understand that change and uncertainty are becoming more and more the norm in today's business environment.
- Focus on the positive aspects of new or poorly defined situations the potential for growth and development, the opportunity to help shape the new conditions, etc.
- Analyze what one does know about the situation, identify the knowledge or skills that are yet needed, and locate the sources of such knowledge/skills.
- Include staff as active participants in the discussions on change, particularly on how to prepare. If they feel that they are prepared, they will embrace change more readily.
- Be proactive in getting advice or perspectives from others; sometimes others can provide information or insights that one cannot see for oneself.

Question 7. Listen intently to fully understand the needs and perspectives of others.

Coaching Tactics

- The best coaching in communications skills is to teach by example. Listen to others; don't
 just provide information or responses. Give the other party "air time." Show that you're
 interested. Summarize, clarify or empathize as appropriate. Maintain eye contact and speak
 slowly and naturally. Put warmth in your voice.
- After an interaction that you have both witnessed or participated in, point out to the new manager/supervisor examples of others listening well or poorly.
- Help the new manager become more sensitive and perceptive about body language and
 facial expressions, and how to read what others are "saying behind their words." It is easy to
 be misinterpreted regarding this practice, but it is also easy to correct misperceptions with a
 little feedback and coaching.

F1G. 13A

Question 9. Give helpful and constructive (rather than negative or punishing) feedback on the performance of others.

Coaching Tactics

For feedback to be helpful, it needs to be clear and have the staff member's buy-in. If it is perceived as unhelpful, it is less likely the staff member will act on the feedback and more likely he/she will try to avoid getting feedback in the future. To make feedback feel helpful, a manager should:

- Start any discussion by stating a helpful outcome e.g., "I want to give you some feedback on your approach so you can continue to improve and become the best sales person we have." An outcome the person can buy into will make them want to listen carefully to the feedback.
- Focus the feedback on future results, rather than critiquing the past. Even though it is their
 recent performance that is prompting the feedback, it gives it a better context to phrase it in
 the future e.g., "The next time you approach a similar situation, you should..." This avoids
 "you did this"/"no I didn't" discussions.
- Make sure staff members can take specific actions in response to the advice. Timing is
 important. The best time to have the discussion is just before they are going to engage in
 the same situation or task again. However, it should be delivered in a timely fashion, not
 dumped on the staff member a year later.
- Give positive feedback too! Managers see their job as "correcting" wrong performance. So, given the time constraints of a busy job, they tend to give corrective feedback. But constant corrective feedback can be seen as "attacking," and most people either shut down and not listen or get angry when attacked.
- Make sure that feedback is based on criteria that are clear, well-understood, and previously agreed-on. Getting agreement on the criteria for measurement during feedback will not work!

Question 12. Work to build strong networks with peer level managers, boss, and all support areas.

Coaching Tactics

Coach the new manager to do the following:

- Focus on shared outcomes. Have regular discussions with one's partner(s) on the issues or
 pressures in his/her business so you know what is important to him/her. Do not start
 discussions by focusing on where you disagree, problems you are having, or what you want
 from your partner, but by focusing on outcomes what you both are trying to achieve by
 working together on an issue. Emphasize how that connects with your customer's needs:
- Don't come into discussions with partners with a predetermined idea of what would be the best answer, but allow answers to come out of mutual discussion.
- Be proactive in finding out what one's partners need.
- Be clear and specific in laying out mutual expectations with partners.
- See your partners as a part of your business "family." Once you have established shared outcomes, actively look for ways to support your partners. Part of your job is spending time helping your valuable partners. It will help you achieve your results.
- Care about what your partner is saying rather than just waiting for your turn to speak.
 Listening and responding sends the message that you are engaged in a dialogue, not a debate. In discussions, validate your partner's input, let him/her know he/she has a good point and add to its content, as opposed to always finding the "flaw" in what he/she said.

Question 13. Encourage team members to develop strong positive relationships with each other.

Coaching Tactics

- If the manager makes the decisions for the team (work group), calls all the meetings, does all the coaching and mentoring, and gives the support needed, then the team has no reason to work with each other. Given the time constraints on a manager and the need for synergy to stretch limited resources, having staff members work as a team is necessary. Therefore, it is important for a manager to step away from filling pivotal roles for every direct report. To do this, the new manager should be encouraged to:
- Set the expectation with the team that everyone will share the responsibility for the performance of the team and will work to support each other.
- Occasionally delegate the role as leader and mentor to others on the team choosing staff
 members that can handle meetings or work with another staff member as a resource on a
 task, and asking them to step in.
- Ensure that the team discusses and develops some common goals. Sharing common goals
 that everyone cares about and wants to meet is often the most powerful "glue" that a team
 can have.
- The manager should set the expectation that sharing is a positive behavior and a part of the
 job, and be specific with examples that would result in better performance.
- Encourage the new manager to reward sharing behavior when he/she sees it. Even a simple "Good job, you worked well together on this" can be powerful.
- Look for team rewards. It can be hard on teamwork if every reward is for individual
 contribution. Add team rewards even if they are not monetary. Find something that works
 within one's situation e.g., dress-down days, shared pastries, or rotating "late days" where
 they cover for each other. Ask the team what they would like to make sure it is valued.
- The new manager should be sure to have regular team-building activities, and make sure
 that meetings are held only when needed. Always have "strengthening the team" or "making
 the team more effective" as one of the topics.

F16.13C

Report – [Candidate Comparison] Job Descr	iption – [Proj	ect Manager]	
Competencies	Candidate #1	Candidate #2	Candidate #3	
OVERALL SUMMARY	High	High	Medium	
Managing the Business				
Focus resources and energy on activities that will achieve the greatest results	Medium *	High	Medium	
Show resourcefulness in getting results under new or				
undefined business conditions	High	Medium *	Low *	
 Continue to pursue goals despite problems and setbacks by demonstrating confidence, persistence and a sense of urgency 	Medium *	Medium *	Medium *	
Managing the Business Average:	High	Medium	Medium	
	111911	Micaraili	Mediam	
Managing People				
Seek commitment rather than passive acceptance to	High	Uiah	8.6 a divina +	
goals and priorities in working with others	High	High	Medium *	
Work with others to establish clear and realistic roles, responsibilities and goals as well as effective plans to				
reach goals	High	High	Medium	
Value and accommodate diversity	High	High	High	
7. Listen intently to fully understand the needs and	_ 			
perspectives of others	Medium *	High	Medium	
 Demonstrate a genuine commitment to helping other people improve their effectiveness and succeed (e.g. by fully sharing information, expertise and resources), rather than always serving his/her own needs 	Medium	Medium *	Medium	
Give helpful and constructive (rather than negative or punishing) feedback on the performance of others	High	High	Medium	
Recognize and praise others' efforts and accomplishments	Medium	Medium *	Medium	
Managing People Average:	High	High	Medium	
Teamwork				
11. Focus on getting results for the business rather than on "turf" issues	Medium *	High	Medium	
Work to build strong networks with peer level managers, boss and all support areas	High	High	Medium	
Encourage team members to develop strong positive relationships with each other	Medium	High	Medium	
Teamwork Average:	Medium	High	Medium	
Londonship	T			
Leadership 14. Show support for the organization, its values and its	ļ <u>-</u>			
goals	High	High	Medium	
15. Take personal responsibility for his/her actions and results, without blaming others or making excuses	Medium *	Medium *	Medium *	
16. Demonstrate high standards of personal integrity and credibility	High	High	Medium *	
Leadership Average:	Wi-h	Ui	Madle	
*: 4 C 11/0 C1	High	High	Medium	

^{*} is the first 1/3 of lowest scores

eReference Vendor Report

Report
Competencies Ratings From References
Establishing Effective Business Relationships
works to achieve a thorough understanding of the client's organization and business (strategy, structure, products/services, etc.)
Medium
 Does a thorough fact-find up front to determine client's situation, needs, and requirements. Low *
3. Establishes a clear understanding and mutual expectations with the client about how to work together effectively (roles, responsibilities, timing, deliverables, etc.).
Medium
4. Uses the client's language, not their own jargon. Medium
5.
Handles client questions, concerns, and objections in a positive and helpful way without bypassing or glossing over concerns. Medium
6. Clearly explains the features, benefits, and advantages of their products and services, specifically relating them to client needs.
High
7.
Clearly, truthfully, and fully explains the pricing and relevant terms and conditions pertaining to the purchase and use of the vendors products/services.
Medium
 Recommends the best solution for the client company based on client needs. Medium
 Keeps bureaucracy, red tape and other inefficient time-wasters to a minimum in contracts, billing and all other dealings with client company.
Medium
10. Puts top-notch people on client account – knowledgeable, effective, responsive, courteous and supportive, etc. Low
Establishing Effective Business Relationships Average: Medium
Delivering the Promise
11. Responds to the client's need for information, clarity or decisions in a timely and effective way, demonstrating a sense of urgency and commitment to help. High

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Operates in an open, honest and ethical	I manner at all times with the client company. Medium
13.	
Gives the client sufficient assistance in t	terms of resources, time, expertise, knowledge, etc. to fully serve client's need
solve their problems.	Low
	Low
14.	•
Keeps client updated and "in the loop" o	on status of deliverables, requests, questions, and work being done (when, how
by whom).	High
	, ng,i
15.	
Does "Whatever it takes" to ensure that t	the client is delighted with the vendor's products and services at all times Medium
16.	
Fully delivers on all commitments made	to client – quality of product /service, price, timing, etc. Medium
	Delivering the Promise Average: Medium
Maintaining & Strengthening the Rela	
17.	ationship
	ed by the client.
17.	ationship
17. Is flexible in adapting to changes require 18.	ed by the client. Low *
17. Is flexible in adapting to changes require	ationship ed by the client. Low * are made.
17. Is flexible in adapting to changes require 18.	ed by the client. Low *
17. Is flexible in adapting to changes require 18. Makes a quick recovery when mistakes 19.	ed by the client. Low * are made. High
17. Is flexible in adapting to changes require 18. Makes a quick recovery when mistakes 19.	ationship ed by the client. Low * are made.
17. Is flexible in adapting to changes require 18. Makes a quick recovery when mistakes 19.	are made. High with the right person/department to address problems or questions.
17. Is flexible in adapting to changes require 18. Makes a quick recovery when mistakes 19. Makes it easy for clients to communicate	are made. High e with the right person/department to address problems or questions. High
17. Is flexible in adapting to changes require 18. Makes a quick recovery when mistakes 19. Makes it easy for clients to communicate 20. Accepts full responsibility for all actions	are made. High with the right person/department to address problems or questions.
17. Is flexible in adapting to changes require 18. Makes a quick recovery when mistakes 19. Makes it easy for clients to communicate 20. Accepts full responsibility for all actions confrontational way.	and results, dealing with feedback or criticism in a positive, non-defensive and

FIG. 15B

Report – [360 Survey Success Report]		
Competencies	Raw Score	Rating
Managing the Business		,
3. Continue to pursue goals despite problems and setbacks by		
demonstrating confidence, persistence and a sense of urgency	4.7	Very High
2. Show resourcefulness in getting results under new or undefined		
business conditions	3.0	Medium
Focus resources and energy on activities that will achieve the		
greatest results	2.5	Medium
Managing the Business Average:	3.40	Medium
Managing People		
8 Demonstrate a convince commitment to helping attended		
8. Demonstrate a genuine commitment to helping other people improve	4.0	
their effectiveness and succeed (e.g. by fully sharing information,	4.9	Very High
expertise and resources), rather than always serving his/her own needs		
4. Seek commitment rather than passive acceptance to goals and	4.7	Very High
priorities in working with others		
Work with others to establish clear and realistic roles, responsibilities and goals as well as effective plans to reach goals	4.5	Very High
Give helpful and constructive (rether the analytic and constructive (rether the analytic and constructive analytic and constructive analytic a		
Give helpful and constructive (rather than negative or punishing) feedback on the performance of others	4.3	High
Value and accommodate diversity		
Name and accommodate diversity Recognize and praise others' efforts and accomplishments	4.2	High
Necognize and praise others enous and accomplishments Listen intently to fully understand the needs and perspectives of	4.1	High
others	4.0	High
Managing People Average:	- 4.00	
munuging i copie Average.	4.38	High
Teamwork		
11. Focus on getting results for the business rather than on "turf" issues	4.8	Very High
13. Encourage team members to develop strong positive relationships	4.7	Very High
with each other	4.7	very rigit
12. Work to build strong networks with peer level managers, boss and	4.5	Von High
all support areas		Very High
Teamwork Average:	4.66	Very High
Leadership		
16. Demonstrate high standards of personal integrity and credibility	5.0	Very High
14. Show support for the organization, its values and its goals	4.8	
15. Take personal responsibility for his/her actions and results, without	4.0	Very High
blaming others or making excuses	4.6	Very High
Leadership Average:	4.8	Very High
	4.0	very migh
Overall Average:	4.31	High

FIG. 16

SYSTEM AND METHOD FOR EVALUATING JOB CANDIDATES

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to U.S. provisional patent application No. 60/492,457, filed Aug. 4, 2003, which is incorporated herein by reference.

FIELD OF THE INVENTION

[0002] This invention relates to human resource management system, and more particularly to a system for collecting and analyzing information from references identified by job candidates.

BACKGROUND OF THE INVENTION

[0003] It has been estimated that errors in hiring cost companies more than 50 billion dollars per year in lost revenue, decreased productivity, squandered training expenses, legal liabilities, high turnover and other undesirable consequences. The result, in spite of the dramatic increase in the use of background checks and psychological profiles by many organizations, and the universality of selection interviews, is that annual turnover in U.S. companies of over 5,000 employees continues to be 25%. According to experts in the field, nearly 80% of turnover is caused by poor selection decisions.

[0004] Therefore, background checks have become even more important than in the past. One part of the background check, and more generally the hiring process, is the gathering of information from references, that is those individuals identified by a job candidate as being knowledgeable about the candidate's character and qualifications.

[0005] Unfortunately, traditional reference checking methods such as telephone interviews are very costly and time-consuming, require extensive training for interviewers and generally do not yield useful information due to lack of precision, lack of confidentiality and possible errors of filtering, amplification and interpretations by the intermediaries. Most important, perhaps, is the fact that in today's litigious society, business and professional reference givers are usually unwilling to provide more than basic information such as employment dates and positions held. Such information has little value in helping companies make effective hiring decisions.

[0006] Another problem with the conventional reference checking is that it's done very late in the hiring process, which is typically done after the candidate is hired. Ideally, it should be done during the screening and selection process. Moreover, the conventional background checking provides no guidance for the hiring manager to further explore areas of weakness in the candidate during the hiring process.

[0007] Therefore, it would be desirable to provide a more effective and inexpensive system and method for collecting and evaluating information provided by reference providers for job candidates. It would be also desirable to provide such a system that is substantially automated and that is used early in the hiring process.

SUMMARY OF THE DISCLOSURE

[0008] A system for collecting and analyzing survey data from reference providers identified by a job candidate for

use by an employer is provided. The system includes a candidate database that stores survey data which are provided by the reference providers. A collection module running in the system sends an electronic communication to the reference providers requesting them to complete the survey questions and electronically receives the survey data. The electronic communication preferably contains a URL link that takes the reference provider to a dynamically generated webpage through which the survey data are entered.

[0009] An analysis module running in the system combines the received survey data from the reference providers and generates a candidate report. In one aspect, the candidate report is a confidential report which excludes identification of any ratings or comments by any reference providers. In another aspect, the system also generates customized interview probe questions for use during job interviews and coaching tactics for use after the hiring, based on the weak areas that have been identified from the completed surveys in order to assist the hiring manager to bring the new hires up to speed quickly and effectively.

[0010] The human resource system provides substantially automated collection and analysis which is inexpensive and yet accurate and useful.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] FIG. 1 is a block diagram of a job candidate evaluation system according to the present invention.

[0012] FIG. 2 is a simplified process flow of a candidate evaluation process according to the present invention.

[0013] FIG. 3 illustrates a detailed process flow of a purchase and set-up step of FIG. 2.

[0014] FIG. 4 illustrates a detailed process flow of a candidate and reference identification step of FIG. 2.

[0015] FIG. 5 illustrates a detailed process flow of a collection step of FIG. 2.

[0016] FIG. 6 illustrates a detailed process flow of an analysis step of FIG. 2.

[0017] FIG. 7 illustrates a detailed process flow of a continuous update step of FIG. 2.

[0018] FIGS. 8A and 8B illustrate a sample survey form.

[0019] FIG. 9 is a sample email sent to a job candidate.

[0020] FIG. 10 is a sample email sent to each reference identified by the job candidate.

[0021] FIGS. 11A-11D illustrate a sample candidate report for use by a hiring manager.

[0022] FIGS. 12A-12B illustrate a sample set of interview questions for use by the hiring manager in a subsequent interview with the job candidate.

[0023] FIGS. 13-13C illustrate a sample set of coaching tactics for use by the hiring manager after the job candidate is hired

[0024] FIG. 14 illustrates a group report which ranks multiple job candidates.

[0025] FIGS. 15A and 15B illustrate a sample vendor report that evaluates vendors supplying goods and services to a company.

[0026] FIG. 16 illustrates a sample report that shows the correlation between survey questions/competencies and performance of hired candidates.

DETAILED DESCRIPTION OF THE INVENTION

[0027] As an overview, the present invention uses a computer network such as the Internet and the resources of the network including emails and webpages to set up initial survey questions, send out emails to references identified by job candidates, collect confidential competency-based survey information via webpages from the identified references, analyze the collected information and generate candidate reports for use by a hiring manager. The system has integrated the screening and selection process with a competency based survey database that allows the comparative review of reference information against one or more candidates, the company's own employees, the industry or other normalized database by job type, organization or company competency.

[0028] Referring now to FIG. 1, a job candidate evaluation system 1 of the present invention involves a number of computers 10, 15 that are connected to each other through a computer network such as the Internet. The computers 10, 15 of the system 1 cooperate with each other to provide comprehensive collection and analysis of reference information that are made through the network 2. Computers 15 are similar to the computer 10, with the exception of some of the databases and software modules.

[0029] As illustrated in FIG. 1, the computer 10 is connected to the Internet 2 through, for example, an I/O interface 12, such as for a LAN, WAN, or fiber optic, wireless or cable link, which receives information from and sends information to other computers 15. The computer 10 is also connected to a keyboard 14 for controlling the computer.

[0030] The computer 10 includes, for example, memory storage 16, processor (CPU) 18, program storage 20, and data storage 22, all commonly connected to each other through a bus 24. The program storage 20 stores, among others, software programs such as set-up module 26, collection module 28, and analysis module 30 as will be explained in detail later herein. The data storage 22 stores, among others, candidate database 34, benchmark database 36 and survey database 318, all preferably stored in a relational database that relates all of the databases stored in the data storage. Any of the software program modules in the program storage 20 and data from the data storage 22 are transferred to the memory 32 as needed and is executed by the processor 18.

[0031] The computer 10 can be any computer such as a WINDOWS-based or UNIX-based personal computer, server, workstation or a mainframe, or a combination thereof. While the computer 10 is illustrated as a single computer unit for purposes of clarity, persons of ordinary skill in the art will appreciate that the system may comprise a group of computers which can be scaled depending on the processing load and database size and which can be remotely located to provide localized non-stop service.

[0032] FIG. 2 illustrates a high level process flow of the evaluation process according to the present invention. In

step 42, a client company sets up an order for a job candidate or multiple candidates, and prepares one or more surveys for use in the hiring process as will be explained in detail with reference to FIG. 3. This step is executed by the set-up module 26. In the same step, the order for the job candidates is done by purchasing a certain number of candidate reports and specifying the purchase information. Purchase of one report provides unlimited generation of reports for each job candidate until the time of hire or rejection.

[0033] In step 44, the hiring manager identifies a job candidate and receives information about the references or reference providers that are identified by the job candidate, which include an email address for each reference as will be explained in more detail with reference to FIG. 4. A reference provider should be someone who has worked extensively with the job candidate in the past which include customers, supervisors, and peers. Step 44 is executed by the collection module 28.

[0034] In step 46, which is also executed by the collection module 28, the system 1 sends emails to all of the references that were identified by the job candidate. The email requests each reference to fill out the survey prepared by the hiring manager. The survey information is then collected from the identified references through web pages and stored in the survey database 38. Step 46 is more fully explained with reference to FIG. 5.

[0035] In step 48, executed by the analysis module 30, the system 1 analyzes the collected information and generates a report that includes the overall assessment of the candidate's competency in each of the several competency areas and includes any comments supplied by the references. Competency is a well known concept that represents a particular characteristic of an individual or organization performing a task, function or project at a particular point in time that leads to successful performance. The report can be a final report with all surveys completed by the references, or it can be a real time interim report with analysis of partially completed survey information which can be requested by the hiring manager at any time. Based on the analysis, the system 1 also generates "interview probes" for those areas where the candidate did not score as highly as others, a sample of which is shown in FIGS. 12A-12B. The probes guide an interviewer to obtain more information about the candidate's level of accomplishments or experience with regard to specific lower scoring competencies. The report may also include coaching tactics to manage and develop the candidate assuming the candidate is hired, a sample of which is shown in FIGS. 13A-13C. Like the interview probes, the coaching tactics are also based on analysis of those areas where the candidate did not score as highly as others. The coaching tactics are suggested "micro-behaviors" that the hiring manager can use to help the candidate to develop his strengths in lower-scoring competencies. Step 48 is more fully explained with reference to FIG. 6.

[0036] In step 50, the system 1 continuously monitors the job candidates after the hiring process. The system tracks the progress of the hired candidates and collects additional data such as performance levels of the hired candidates. The additional data for all the candidates are then analyzed to generate additional reports containing the correlation between various competencies and high retention/performance. The reports are preferably graphical in nature and

graphically illustrate the competencies that are most closely correlated with the high retention/performance of the candidates. The reports can also be customized by a user to specify whether the correlation is based on position-specific, company-wide or industry-wide benchmarks as will be explained in detail with reference to **FIG. 7**.

[0037] FIG. 3 illustrates a detailed process flow of the purchase and set-up step 42 of FIG. 2. In step 52, a client company uses an Internet enabled computer 15 to access web pages of the system 1 through the Internet 2. The web pages are generated by a conventional database web page generating engine such as PHP (Hypertext Preprocessor) in conjunction with a relational database program stored in the program storage 20 and the web engine is executed by the processor 18. The Internet enabled computer 15 is equipped with a web browser capable of handling forms.

[0038] In step 54, order information such as the client company's address and contact information of various hiring managers working for the client company are filled out in the web page form that was generated by the computer 10. In step 56, purchase information such as the number of reports purchased and credit card data are also entered through the web page. The data entered by the client company are stored in the data storage 22. In step 58, the credit card information provided by the client company is verified and in step 60 a client record is created in a client database in the storage 22 with the contact and purchase information. The client record includes an allocation of reports to specific hiring managers and the user id and password for each hiring manager. In step 62, the computer 10 generates a confirmation message confirming the number of reports purchased and the set-up of the client company in the system 1.

[0039] As can be appreciated by persons of ordinary skill in the art, the above steps 52-62 are optional and can be omitted by using a billing arrangement where the client company is billed on a periodic basis for the candidate evaluation services that have been rendered.

[0040] FIG. 4 illustrates a detailed process flow of the candidate and reference identification step 44 of FIG. 2. When a hiring manager needs to fill a particular position, the manager accesses the computer 10 through a web browser. In step 66, the hiring manager designates a survey that is to be used for that position. The manager can choose from a set of pre-designed or pre-selected surveys stored in the data storage 22, design his own by selecting survey questions from an existing set of questions stored in the data storage, create his own set of questions, or modify an existing survey. The questions are stored in a master table in data storage 22. Each survey also has a corresponding record in the database, which points to the questions in the master table that are included for that survey. Each survey question relates to a specific job-related and validated competency, selected from a bank of competencies that have been derived, tested and validated from experience and research.

[0041] FIGS. 8A-8B illustrate a sample survey that is used for a management position. The survey of FIG. 8A contains 16 questions that relate to various competencies that are known to be important for a management position. For example, the fist three questions relate to a competency known as "Managing the Business". Each of the 16 questions requires the reference to select a value of "1" through "7" by clicking on an appropriate radio button. The survey

also contains two comment boxes as shown in **FIG. 8B**. It includes one for describing the candidate's strengths and one for describing the candidate's weaknesses.

[0042] Once a particular survey is selected or created, the hiring manager enters the job candidates' information in step 68 through the computer 15 and sets the required minimum number of references that must be provided by each job candidate. The entered information is stored by the computer 10 in the candidate database 34 of the data storage 22. In step 68, the computer 10 also generates a unique 16 character alphanumeric identifier for that job candidate which is also stored in the candidate database 34. The alphanumeric identifiers are used for security purposes since they ensure that only known and authorized job candidates can enter or access the information in the system 1.

[0043] In step 70, the computer dynamically generates a web page asking whether the reference information will be provided by the job candidate. If the hiring manager answers yes, the computer 10 in step 72 generates and send an email message to the job candidate with a URL link to a dynamically generated web page and requesting the job candidate to click on the link to provide information on the references he chooses. A sample email to a job candidate is shown in FIG. 9.

[0044] In step 74, the job candidate receives the email and accesses the web page generated by the computer 10 by clicking on the link provided in the email. In response, the computer transmits through the Internet 2 a sample of the survey questions for display on the candidate's computer 15 along with a dynamically generated web page form to provide information on the references. The sample survey questions assist the candidate in determining which individuals would be appropriate references. In step 76, the job candidate enters via the web page form the names, email addresses and relationship of the references. The relationship field only allows "Business" or "Professional" as "Personal" references tend to give scores that are severely skewed towards the positive, and may not have specific knowledge about the job-related competencies of the candidate. The candidate also indicates the dates and location of the relevant employment. The candidate then submits the form to the computer 10.

[0045] The collection module 28 of the system 10 then verifies that each email address is in a valid format and that there are no duplications. As part of the validity check, the collection module 28 checks the domain portion of each email address against the registered location using industry standard databases (WHOIS) to provide the hiring manager additional information if needed. Once the candidate is determined to have submitted a valid list, the computer 10 stores the data on references in the candidate database 34.

[0046] If the answer to step 70 is no, however, then the hiring manager already has the information of references. That information is entered by the hiring manager in step 78. The same type of data checking that are performed in step 76 is also performed in step 78 to ensure that no errors are made.

[0047] FIG. 5 illustrates a detailed process flow of the collection step of FIG. 2. In step 80, the computer 10 generates a unique identifier for each reference and send an email message to each reference explaining the purpose of

the email and directing the reference to click on a URL link to a dynamically generated web page. The unique identifier is generally used internally to uniquely identify the reference within the system 1. A sample email to each reference is shown in FIG. 10. The sample email contains a statement that the operator of the system 1 will maintain strict confidentiality of responses provided by the references and that their responses will be aggregated and analyzed so that all of the information generated in a report for the hiring manager will be confidential. This statement is important because it encourages the references to provide more honest responses.

[0048] In step 82, the email is received by the computer 15 of the reference. In step 84, the reference accesses the web page generated by the computer 10 by clicking on the link provided in the email. In response, the computer transmits through the Internet 2 a dynamically generated web page form for display on the reference's computer 15 along with instructions on how to properly complete the form, a sample of which is shown in FIGS. 8A-8B.

[0049] In step 86, the job candidate enters via the web page form answers to the questions in the survey. For each question, the reference indicates the level of competency possessed by the job candidate using a seven-point scale. The reference is also shown the employment information submitted by the job candidate and is asked to confirm whether the information is accurate. The candidate then submits the completed form to the computer 10 in step 88.

[0050] In step 90, the collection module 28 of the system 10 stores the survey data in the survey database 38. In step 92, the collection module 28 determines whether there is a sufficient number of completed surveys to provide a meaningful report to the hiring manager. For example, in one case that requires seven references, four references might be considered to provide a meaningful report. If no, then the collection module 28 waits for additional surveys to be completed. If yes, however, step 94 is executed.

[0051] Alternatively, the hiring manager has three additional options at this stage. The first option is to override the minimum number of completed surveys and to request an interim candidate report reports regardless. A second option is to set a predetermined time period from the job candidate identifies the references and checking to see whether the predetermined time period has passed. If it has, then step 94 is executed. The third option is to simply allow the hiring manger to close the job candidate's record. That option may be convenient in situations such as the job candidate voluntarily withdrawing from the job opening.

[0052] In step 94, an email to the hiring manager is generated to let him know that at least an interim report is available, which email is received by him in step 98. In step 96, reminder emails are sent to those references that have not provided the survey data within a predetermined time period.

[0053] FIG. 6 illustrates a detailed process flow of the analysis step of FIG. 2. In step 100, the hiring manager accesses the web page generated by the computer 10 by either clicking on the link provided in the email or logging on to the website of the computer 10 independent of the email. At this stage, the analysis module 30 displays a "dashboard" for the current status of the job opening. The status includes the state of each candidate's progress for the

completion of the reference information. In step 102, a request for report on a particular candidate is made.

[0054] In response, the analysis module 30 in step 104 analyzes the received survey data stored in the survey database 38 and generates a candidate report. A sample report is shown in FIGS. 11A-11D.

[0055] As can be seen in FIG. 11A, the report includes a list of references, email addresses, identification of company and relation to the job candidate, dates worked by the candidate and whether the survey was completed. The report also notes any changes or discrepancies between the information provided by the candidate and the reference. For example, reference named "Roger Brown" reported that the dates worked by the candidate of "02/00 To 02/03" is different from "01/00 To 02/03". FIG. 11B explains the score for each competency in FIG. 11C which is based on benchmark scores that are stored in the benchmark database 36. The benchmark scores represent competencies that are stored on an industry-wide basis, company-wide basis or company-specific job position type basis.

[0056] As seen in FIG. 11C, scores for each question are averaged and converted to "very low" to a "very high" score. The scores to questions that are related to the same competency are averaged into the same "very low" to a "very high" score. For example, the average scores for questions 1-3 have been converted to a "Medium", "High" and "Medium", respectively. Also, the three questions are grouped into the competency of "Managing the business" and the average scores for each of questions 1-3 are averages and converted to the score of "Medium".

[0057] One third of the questions where the candidate has received the lowest raw numerical averages are weak areas the analysis module has identified and are indicated using asterisks which are used as the basis for generating interview probe questions and coaching tactics as discussed below in step 106. Alternatively, the weak areas are identified by comparing an averaged score for each question against a benchmark score from the benchmark database 36 and those scores that fall below the benchmark score by a predetermined amount are identified as the weak areas and are indicated as such using asterisks.

[0058] To further make the report useful, it may contain three additional columns: Company Comparison, Industry Comparison and Overall Rating. The Company Comparison and Industry Comparison correspond to the benchmark scores on company-wide job type basis, and industry-wide job type basis. The Overall Rating is derived from taking the average of the raw scores from each normalized database for that job type for the company, industry or other organization and the average of responses from the candidate's reference providers. This score is converted to a verbal descriptor from very-low to very-high based on lookup table for that value. For example a 4.2-5.9 inclusive, could return a "High", each descriptor range can be set based on selection standards.

[0059] As shown in FIG. 11C, questions 3, 8, 11 and 16 are highlighted using a rectangular box. The highlighted questions mean that those questions are most closely associated with high performance and retention of job candidates that have been hired which are based on a statistical analysis of performance data of the hired candidates as will be explained in detail with reference to FIG. 7.

[0060] The report also contains an overall average score ("High" in FIG. 11C) which is an average of scores from all the references for all of the questions. Alternatively, the analysis module 30 can use the correlation data from the continuous update step 50 of FIG. 2 and generate an overall score on a weighted scale in which the weight used for each question or competency is based on the correlation to the performance data with higher weight being used for higher correlation.

[0061] FIG. 11D contains the "Strengths" and "Could Improve" comments provided by the references. It is important to note that the candidate report maintains strict confidentiality of responses provided by the references. In other words, the candidate report decouples the reference individuals from the responses the reference individuals provide so as to provide anonymity of the reference individuals from the hiring company/hiring manager. This is important as it encourages the references to provide more candid responses.

[0062] FIG. 14 illustrates a group report which ranks multiple candidates. For each candidate, the group report includes averaged scores for each question, averaged score for each competency, and an overall summary score. The group report also includes questions 3, 8 and 16 which are highlighted using a rectangular box. The highlighted questions mean that those questions are most closely associated with high performance and retention of job candidates that have been hired which are based on a statistical analysis of performance data of the hired candidates.

[0063] In step 106, the hiring manager, after reviewing the report, determines whether to continue with the hiring process for the candidate. If the answer is no, then the analysis step 48 ends at step 111. If the answer is yes, the analysis step 48 continues with step 108. In step 108, the analysis module generates interview questions (see FIGS. 12A-12B) based on the identified weak areas in the report. Specifically, the interview questions are associated with the questions in the survey and are stored in the data storage 22. For each weak area, the analysis module retrieves those interview questions that are associated with the questions that correspond to the weak areas.

[0064] For example, the report in FIG. 11C has identified questions 1, 2, 7, 9, 12 and 13 as the weak areas. For those questions, the analysis module 30 retrieves associated interview questions from the data storage 22 as shown in FIGS. 12A-12B.

[0065] In step 110, the hiring manager, after having interviewed the candidate, determines whether to hire the candidate. If the decision is no, then the analysis step 48 ends. If the decision is a yes, then the analysis module in step 112 generates coaching suggestions that allow the employer to improve the identified weak areas after the candidate is hired. Like the interview questions, the coaching suggestions are associated with the questions in the survey and are stored in the data storage 22. For each weak area, the analysis module 30 retrieves those coaching suggestions that are associated with the questions that correspond to the weak areas as shown in FIGS, 13A-13C.

[0066] It is important to note that the steps of survey collection 46 and analysis 48 can be used in an iterative process to screen out job candidates. For example, a hiring manager might use a simple survey containing 4 questions

against 100 job candidates to narrow the list down to 10 candidates, then design a new survey containing 16 questions to narrow the 10 candidates down to 3 candidates, and then design another survey containing 20 questions to select one candidate for hire. Accordingly, the present invention can be used to both as a screening tool and a selection tool.

[0067] FIG. 7 illustrates a detailed process flow of the continuous update step of FIG. 2 which is also part of the analysis module 30. In step 120, the computer 10 waits for a predetermined time period after the final candidate report was generated. In the embodiment shown, the predetermined time period is one month. In step 122, the computer 10 prepares and sends an email to the hiring manager with a URL link to a dynamically generated web page. The web page asks whether a particular job candidate is hired. Alternatively, the email may include two links asking the hiring manager to click on one link if the candidate was hired and to click on the other link is the candidate was not hired.

[0068] In step 124, the computer 10 receives the response of the hiring manager and determines whether the job candidate was hired. If no, then that fact is noted and stored in the candidate database 34 in step 126 for later analysis and reporting. If the candidate was hired, then control passes to step 128. At step 128, the computer 10 waits for a predetermined time period after the final candidate report was generated. In the embodiment shown, the predetermined time period is one year from the final report. In step 130, the computer 10 prepares and sends an email to the hiring manager with a URL link to a dynamically generated survey web page. The survey web page asks retention and performance information. In the embodiment shown, the survey web page asks two questions: (1) is the candidate still employed; and (2) how well the candidate has performed based on a survey containing multiple questions or based on a single question on a predefined scale, e.g., scale of 1-10. In step 126, the response to the two questions from the hiring manager are stored in the candidate database 34 for later analysis and reporting.

[0069] In step 132, the analysis module 30 analyzes the hiring data stored in the candidate database 34. Specifically, the retention and performance data are statistically correlated with the various scores received by that candidate in the surveys to identify the questions where high ratings are most closely associated with high performance and retention. The correlation can be calculated on an industry-wide position type basis, on a company-wide basis without regard to the position type or on a company-wide position type basis. Thus, when the candidate reports such as shown in FIG. 11C are generated, the questions where high ratings are most closely associated with high performance and retention are graphically indicated based on the latest data accumulated up to that point.

[0070] FIG. 16 illustrates a sample report that shows the correlation between survey questions/competencies and performance of hired candidates. As shown, the report includes raw correlation scores and corresponding ratings. For example, question 3 has a raw score of 4.7 and a "Very High" rating.

[0071] These reports can be used by the hiring manager to continuously improve the survey. For example, the hiring manager can choose to delete the two questions that have the lowest correlation to the performance data and add two new

questions from the competency area that has the highest correlation to the performance data. In the example shown, the two lowest scoring questions are questions 1 and 2, and the competency area having the highest score of 4.66 is "Teamwork".

[0072] Once step 132 is executed, control passes to step 128 where the computer waits a programmable amount of time usually 6 to 15 months to repeat the steps 130 to 132 to continuously monitor the performance of the job candidates that have been hired in order to continuously improve the survey questions and competency categories.

[0073] Application of the principles of the present invention are many. For example, principles of the survey selection, collection of responses and analysis of the responses can be used to evaluate a large number of vendors who supply products and services to a company through a group of buyers working for the company. The buyers for the company are acting as "reference providers". A sample vendor report as shown in FIGS. 15A-15B can be used to better manage the large number of vendors.

[0074] The foregoing specific embodiments represent just some of the ways of practicing the present invention. Many other embodiments are possible within the spirit of the invention. Accordingly, the scope of the invention is not limited to the foregoing specification, but instead is given by the appended claims along with their full range of equivalents.

What is claimed is:

- 1. A human resource information system employing competency based performance evaluation parameters for providing an analysis of an object person's competency to a client through interrogation of reference individuals, comprising:
 - a data processor,
 - a predetermined set of competency based questions requesting quantitative responses to provide a set of predetermined competency parameters for the object person,
 - an I/O interface operable to transmit through the internet a predetermined subset of said competency based questions to a set of reference individuals and to receive through the internet the responses from members of said set of reference individuals,
 - said data processor coupled to said I/O interface to merge the responses from the members of said set of reference individuals to provide a continuing cumulative quantitative analysis of each parameter in said subset of competency based questions,
 - a client terminal coupled to said client computer to permit client interrogation of said cumulative quantitative analysis.
 - said analysis being decoupled from the reference individuals to provide anonymity for said reference individuals.
 - 2. The system of claim 1, wherein:
 - the client inputs a portion of the contents of said predetermined subset of competency based questions.

- 3. The system of claim 1, wherein:
- said client interrogation is restricted to a stage wherein said cumulative analysis is based on more than a predetermined number of responses received from the reference individuals.
- 4. The system of claim 2, wherein:
- said client interrogation is restricted to a stage wherein said cumulative analysis is based on more than a predetermined number of responses received from the reference individuals.
- 5. The system of claim 1, wherein said data processor is further operable to provide a comparison of said cumulative quantitative analysis of any one or more of said parameters to the corresponding parameter analysis to a predetermined set of individuals whose performance assessment parameters have been processed by the system.
- 6. The system of claim 2, wherein said data processor is further operable to provide a comparison of said cumulative quantitative analysis of any one or more of said parameters to the corresponding parameter analysis to a predetermined set of individuals whose performance assessment parameters have been processed by the system.
- 7. The system of claim 3, wherein said data processor is further operable to provide a comparison of said cumulative quantitative analysis of any one or more of said parameters to the corresponding parameter analysis to a predetermined set of individuals whose performance assessment parameters have been processed by the system.
- 8. The system of claim 4, wherein said data processor is further operable to provide a comparison of said cumulative quantitative analysis of any one or more of said parameters to the corresponding parameter analysis to a predetermined set of individuals whose performance assessment parameters have been processed by the system.
- 9. The system of claim 1, wherein said data processor merges the responses from the members of said set of reference individuals to provide a continuing cumulative quantitative analysis upon a request from the client.
- **10**. A method of providing personnel analysis for a client based on competency based performance evaluation questions of an object individual comprising the steps of:
 - providing a set of competency based questions requesting quantitative responses to provide a set of predetermined competency parameters,
 - transmitting said set of questions over the internet to each member of a set of reference individuals provided by the object individual for use by a client interested in determining the object individual's competency for a given position,
 - receiving responses to said set of questions over the internet from members of said set of reference individuals.
 - merging said responses to provide a quantitative score of each of said parameters based on the quantitative responses provided for each of the parameters,
 - executing said step of merging continuously to provide continuous up-to-date quantitative scores,
 - providing said quantitative scores to a client terminal to permit continuous client interrogation of said quanti-

- tative scores subsequent to processing responses from a predetermined number of reference individuals in said step of merging.
- 11. The method of claim 10, wherein said step of providing said quantitative scores to a client terminal is limited to a state in said step of executing wherein responses from more than a predetermined number of reference individuals have been merged.
- 12. The method of claim 10, wherein executing said step of merging continuously to provide continuous up-to-date quantitative scores is performed upon a request from the client.
- 13. In a computer network, a computer implemented system for collecting and analyzing survey data from a plurality of reference providers identified by a job candidate for use by an employer, the system comprising:
 - a candidate database that stores survey data provided from a plurality of reference providers for a job candidate;
 - a collection module operable to send an electronic communication to the plurality of reference providers to request completion of a survey containing survey questions and to electronically receive through a computer network the survey data from the plurality of reference providers for storage in the candidate database;
 - an analysis module operable to combine the received survey data from the plurality of reference providers and generate a candidate report for an employer.
- **14**. The computer implemented system according to claim 13, further comprising:
 - a survey database that stores a plurality of survey questions for different job types;
 - a set-up module that allows the employer to select a job type and customize a survey for the selected job type.
- 15. The computer implemented system according to claim 13, wherein the survey questions are related to competencies that represent the characteristics of an individual.
- 16. The computer implemented system according to claim 13, wherein the collection module is further operable to generate a web page containing the survey questions and to receive the survey data through the web page.
- 17. The computer implemented system according to claim 16, wherein the survey includes a plurality of questions and an answer to each of the plurality of questions is a number within a numerical range and the collection module generates a graphical button for each number in the numerical range through which the survey data are collected.
- 18. The computer implemented system according to claim 13, wherein the collection module is operable to provide status information regarding the progress of completing the survey questions by the reference providers.
- 19. The computer implemented system according to claim 13, wherein the analysis module generates the candidate report which contains a score for each survey question, the score representing an average of all answers to the each question by the plurality of reference providers.
- 20. The computer implemented system according to claim 13, wherein the survey questions are grouped into categories, and the analysis module generates a candidate report which contains a score for each category, the score being based on answers from the plurality of reference providers to all questions that belong to the each category.

- 21. The computer implemented system according to claim 13, wherein the analysis module generates the candidate report which contains an identification of weak areas for the job candidate based on benchmark scores.
- 22. The computer implemented system according to claim 13, wherein the analysis module generates the candidate report which contains an identification of weak areas for the job candidate based on benchmark scores and which contains interview questions that allow the employer to further explorer the identified weak areas during a subsequent interview with the job candidate.
- 23. The computer implemented system according to claim 13, wherein the analysis module generates the candidate report which contains an identification of weak areas for the candidate based on benchmark scores and which contains coaching suggestions that allow the employer to improve the identified weak areas after the candidate is hired.
- 24. The computer implemented system according to claim 13, wherein the analysis module generates a group candidate report which ranks multiple candidates.
- 25. The computer implemented system according to claim 13, wherein the analysis module upon request is operable to generate an interim candidate report that includes all of the survey data that have been provided by the reference providers
- 26. The computer implemented system according to claim 13, wherein the analysis module generates a report that correlates the survey questions to performance of hired candidates.
- 27. In a computer network, a computer implemented system for collecting and analyzing survey data from a plurality of reference providers identified by a job candidate for use by an employer, the system comprising:
 - a candidate database that stores survey data provided from a plurality of reference providers for a job candidate, the survey data representing responses to a survey containing a predetermined set of survey questions;
 - a benchmark database that contains benchmark data;
 - a collection module operable to send an electronic communication to the plurality of reference providers to request completion of survey questions and to electronically receive survey data from the plurality of reference providers through a computer network;
 - an analysis module operable to compare the received survey data against the benchmark database and generate a candidate report based on the comparison, the candidate report being anonymous so that the identities of the reference providers are excluded from the candidate report.
- 28. The computer implemented system according to claim 27, wherein the collection module is further operable to dynamically generate a web page containing the survey questions and to receive the survey data through the web page.
- 29. The computer implemented system according to claim 28, wherein the survey includes a plurality of questions and an answer to each of the plurality of questions is a number within a numerical range and the collection module generates a graphical button for each number in the numerical range through which the survey data are collected.
- **30**. The computer implemented system according to claim 27, wherein the analysis module generates the candidate

report which contains a score for each survey question, the score representing an average of all answers to the each question by the plurality of reference providers.

- 31. The computer implemented system according to claim 27, wherein the analysis module generates the candidate report which contains an identification of weak areas for the job candidate based on the benchmark data.
- 32. The computer implemented system according to claim 27, wherein the analysis module analyzes performance data of hired candidates and generates a report that correlates the survey questions to performance of the hired candidates.
- **33.** A computer implemented method of collecting and analyzing survey data from a plurality of reference providers identified by a job candidate for use by an employer, the method comprising:
 - sending an electronic communication to a plurality of reference providers for a job candidate to request completion of survey questions;
 - electronically receiving through a computer network the survey data from the plurality of reference providers for storage in the candidate database; and

- combining the received survey data from the plurality of reference providers and generating a candidate report for an employer.
- **34**. The method according to claim 33, further comprising generating a web page containing the survey questions and the step of electronically receives the survey data through the web page.
- 35. The computer implemented system according to claim 33, wherein the step of generating a candidate report includes generating the candidate report which contains an identification of weak areas for the job candidate based on benchmark scores.
- 36. The computer implemented system according to claim 33, wherein the step of generating a candidate report includes generating the candidate report which contains an identification of weak areas for the job candidate based on benchmark scores and which contains interview questions that allow the employer to further explorer the identified weak areas during a subsequent interview with the job candidate.

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