Distribution #WWDC17

What's New in StoreKit

Session 303

Pete Hare, App Store Engineer Ross LeBeau, App Store Engineer





Promoting in-app purchases



Promoting in-app purchases

Server-to-server subscription notifications



Promoting in-app purchases

Server-to-server subscription notifications

Detailed subscription status information



Promoting in-app purchases

Server-to-server subscription notifications

Detailed subscription status information

Responding to reviews



Promoting in-app purchases

Server-to-server subscription notifications

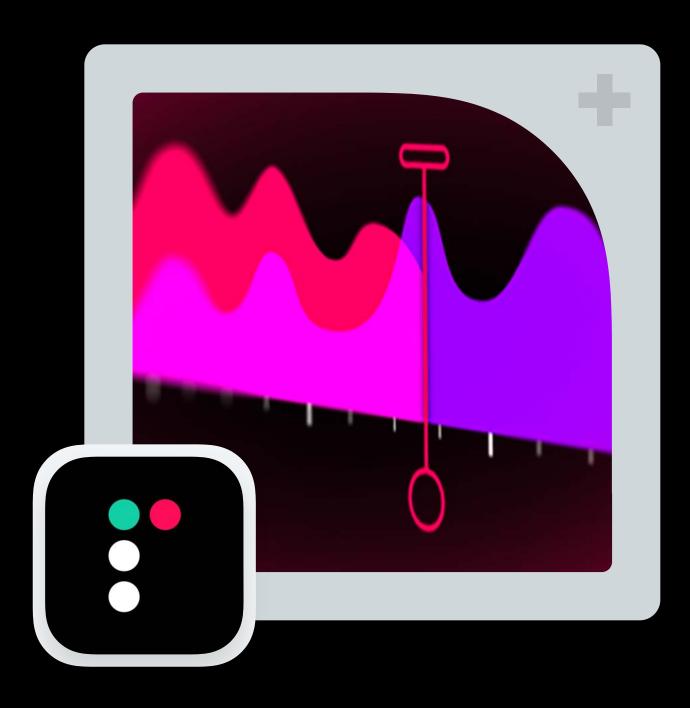
Detailed subscription status information

Responding to reviews

Asking for ratings and reviews

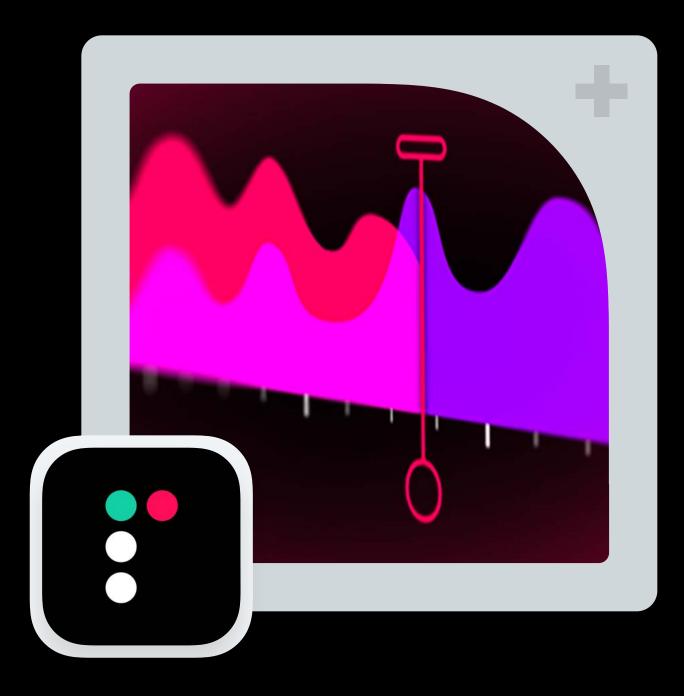
Review of In-App Purchases

In-App Purchase Overview



In-App Purchase Overview

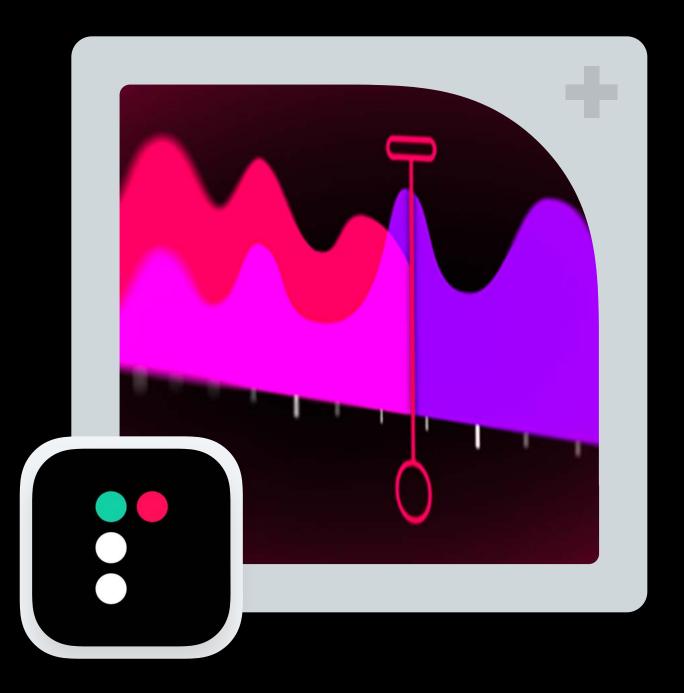
Digital content or service bought in-app

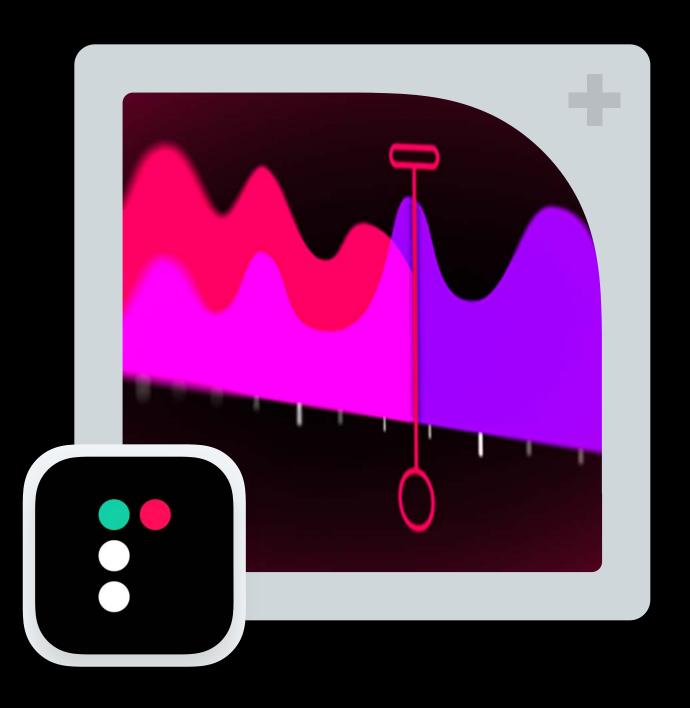


In-App Purchase Overview

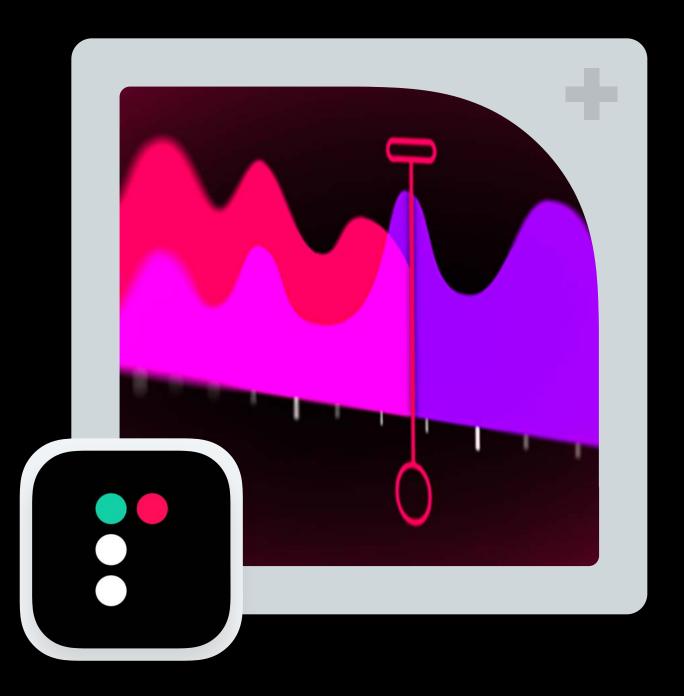
Digital content or service bought in-app

Not for physical goods



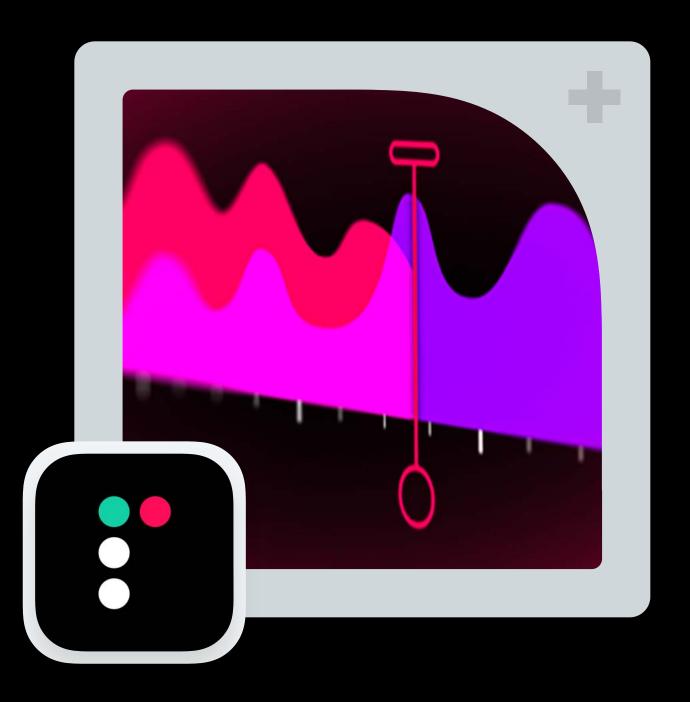


Consumable products



Consumable products

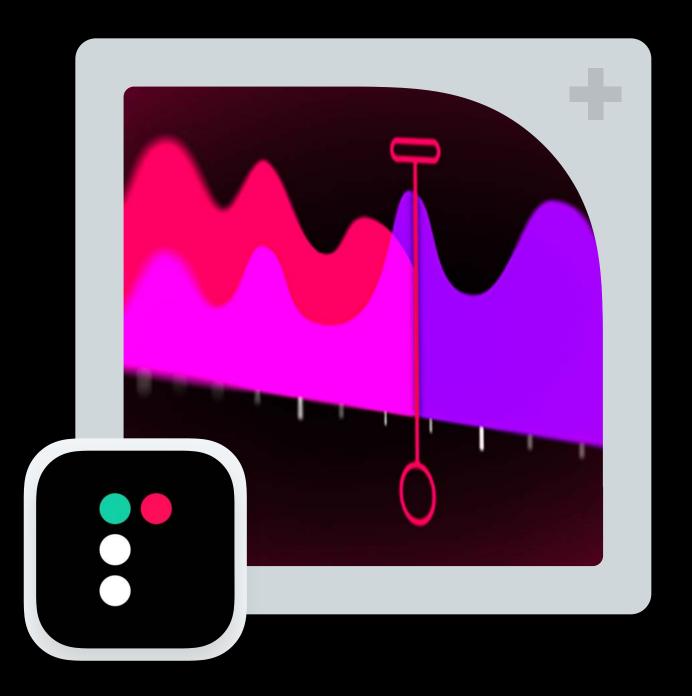
Non-consumable products



Consumable products

Non-consumable products

Non-renewing subscriptions

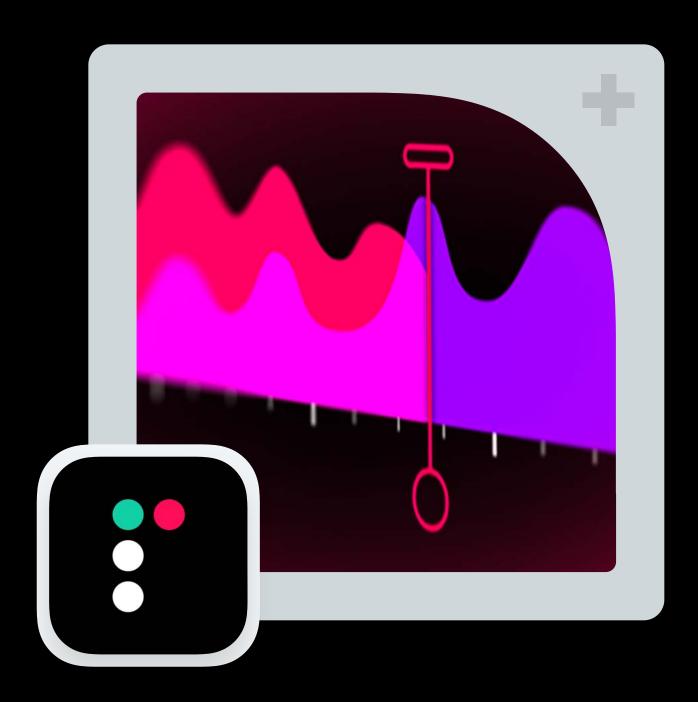


Consumable products

Non-consumable products

Non-renewing subscriptions

Auto-renewable subscriptions

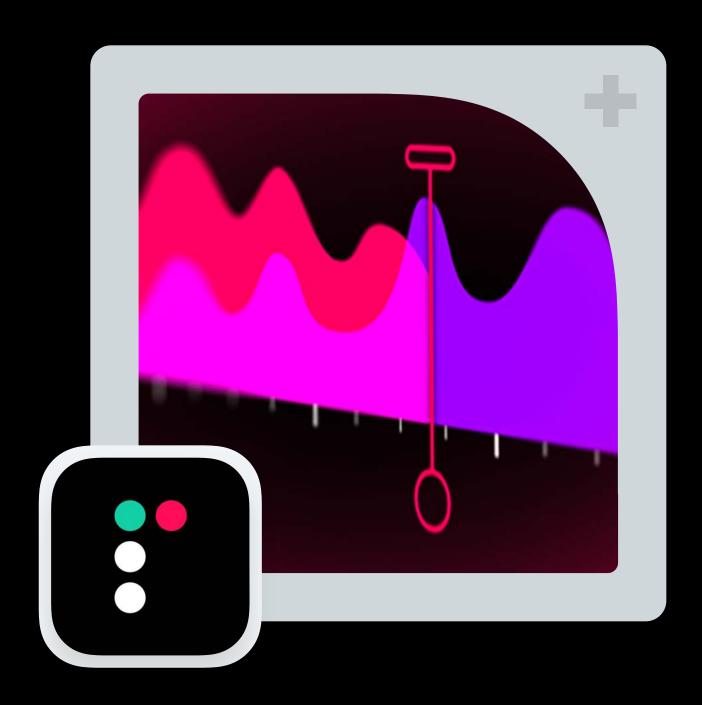


Consumable products

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Auto-renewable subscriptions

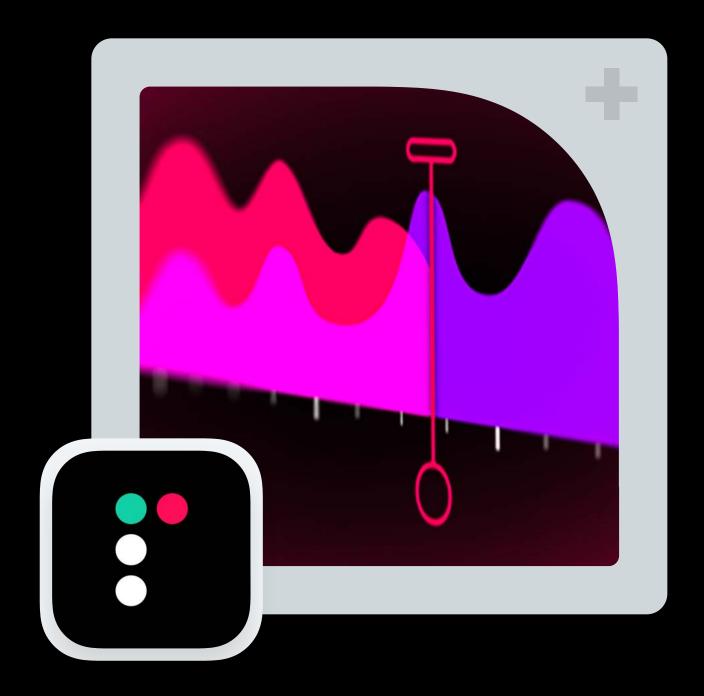


Consumable products

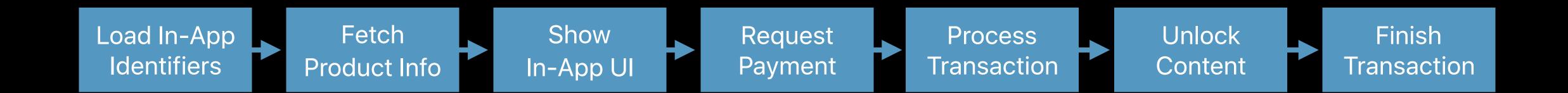
Non-consumable products

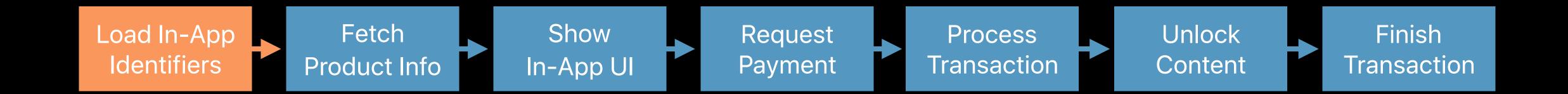
Non-renewing subscriptions

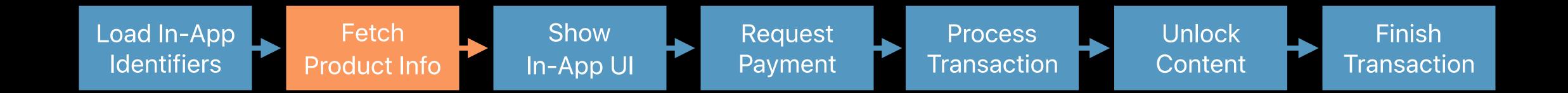
Auto-renewable subscriptions

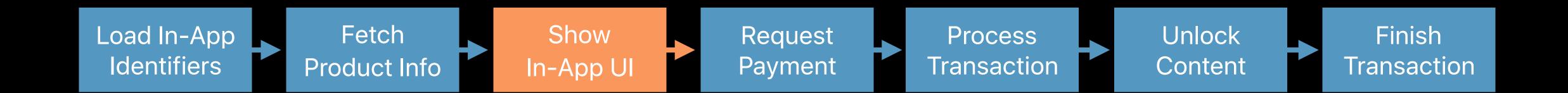


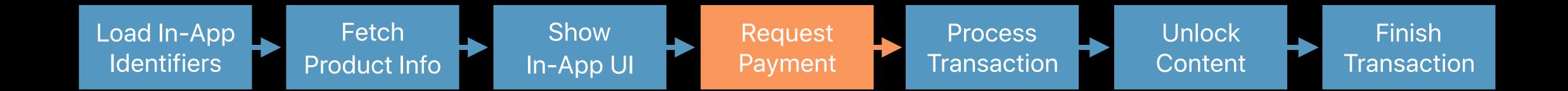
Advanced StoreKit Grand Ballroom A Thursday 1:50PM

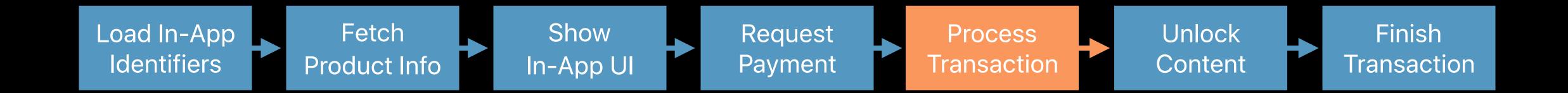


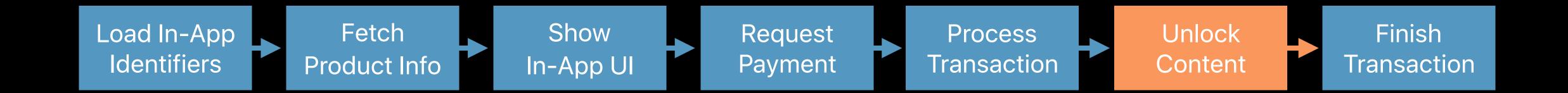




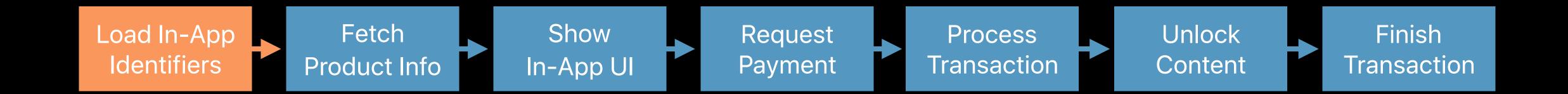












Options for storing the list of product identifiers

Options for storing the list of product identifiers

After setting up product identifiers in iTunes Connect

Options for storing the list of product identifiers

After setting up product identifiers in iTunes Connect

Baked into your app

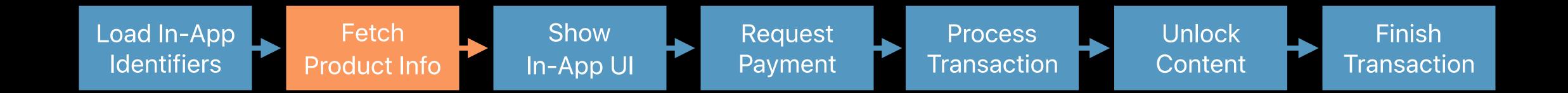
Options for storing the list of product identifiers

After setting up product identifiers in iTunes Connect

Baked into your app

Or fetch from your server

```
let identifiers = remoteIdentifiers()
```



```
// Fetch Product Info
let request = SKProductsRequest(productIdentifiers: identifierSet)
request.delegate = self
request.start()
```

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request.start()
```

```
// Fetch Product Info
func productsRequest(_ request: SKProductsRequest, didReceive response: SKProductsResponse) {
    for product in response.products {
       // Localized title and description
       product.localizedTitle
       product.localizedDescription
        // Price and locale
       product.price
       product.priceLocale
        // Content size and version (hosted)
       product.downloadContentLengths
       product.downloadContentVersion
```

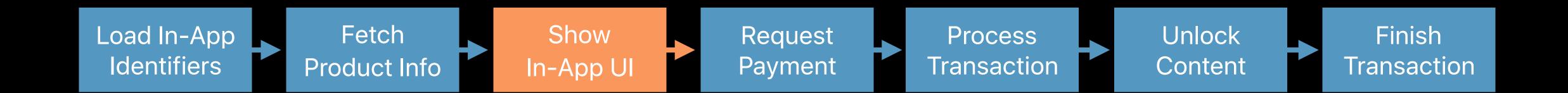
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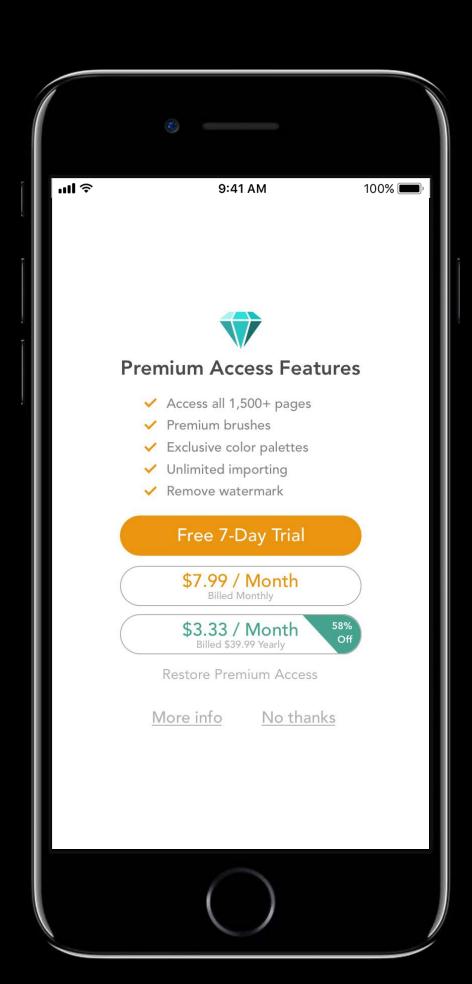
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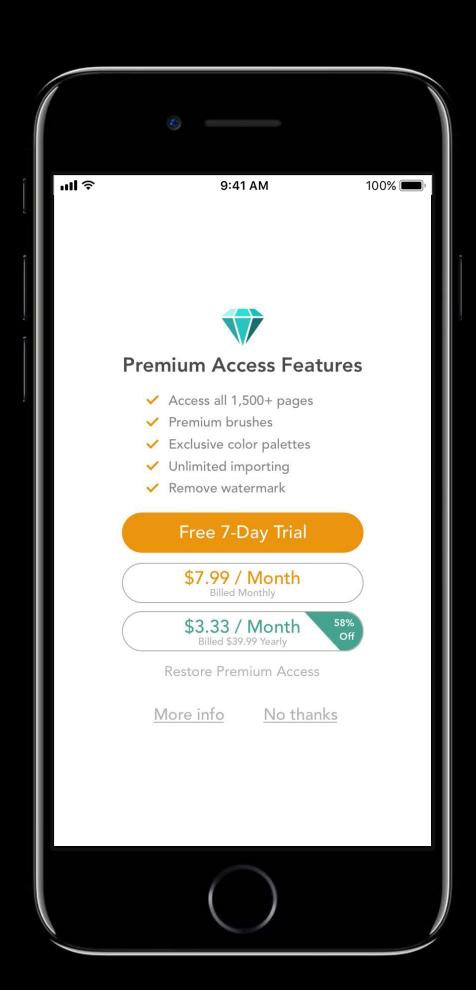
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In-App Purchase Process



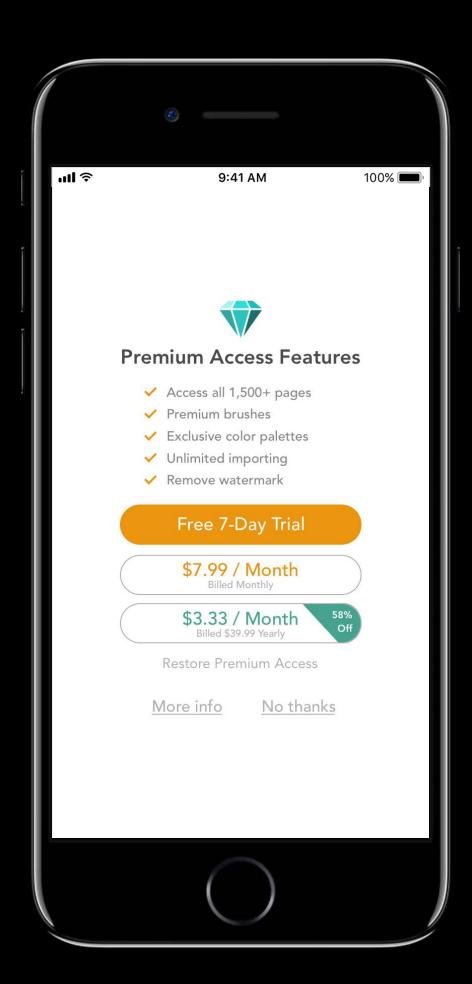


Up to the application



Up to the application

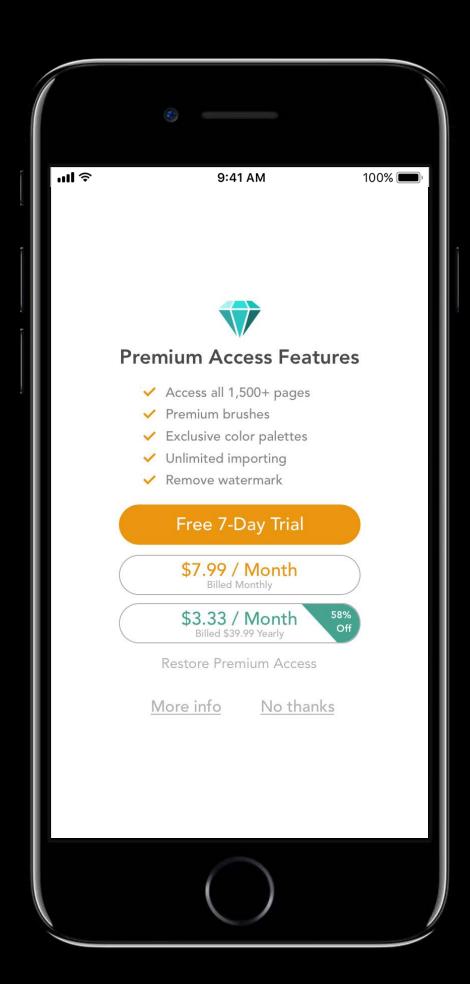
Can have a large effect on sales



Up to the application

Can have a large effect on sales

https://developer.apple.com/in-app-purchase/



```
let formatter = NumberFormatter()
formatter.numberStyle = .currency
formatter.locale = product.priceLocale // Not the device locale!
let formattedString = formatter.string(from: product.price)
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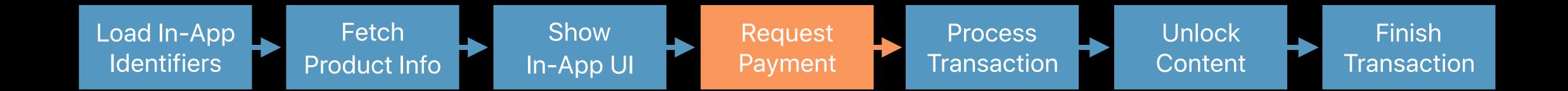
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formatter.numberStyle = .currency
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```

Formatting the product price

```
let formatter = NumberFormatter()
formatter.numberStyle = .currency
formatter.locale = product.priceLocale // Not the device locale!
let formattedString = formatter.string(from: product.price)
```

Do not perform currency conversion

In-App Purchase Process



```
// Requesting a Payment
let payment = SKPayment(product: product)
SKPaymentQueue.default().add(payment)
```

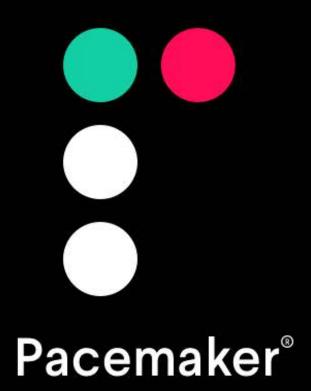
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App Store

Cancel



REVERB PACEMAKER IN-APP PURCHASE

RATING 4+

ACCOUNT J.APPLESEED@ICLOUD.COM

PAY APP STORE

\$1.99



Buy with Touch ID



App Store

Cancel



REVERB PACEMAKER IN-APP PURCHASE

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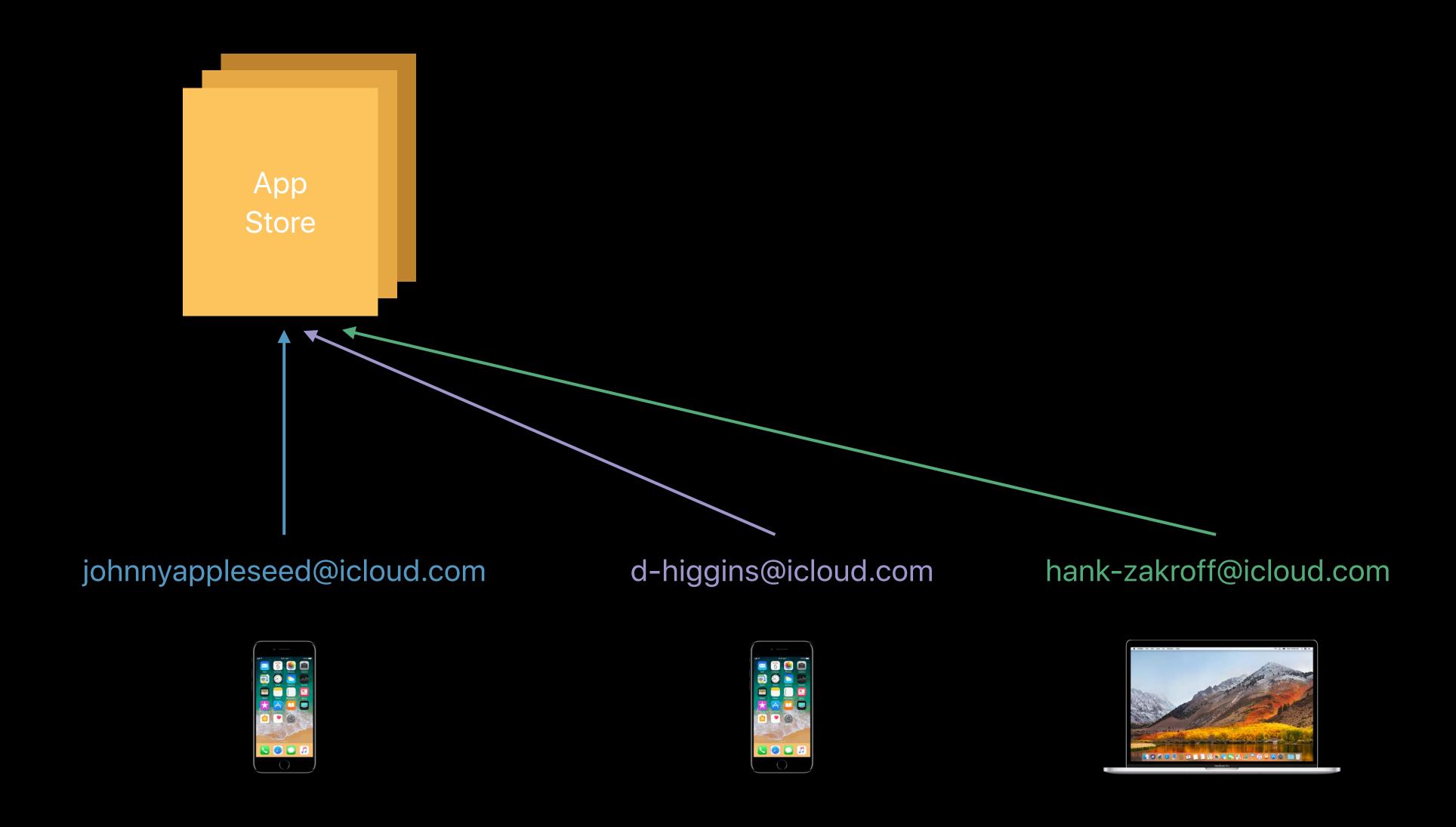
\$1.99



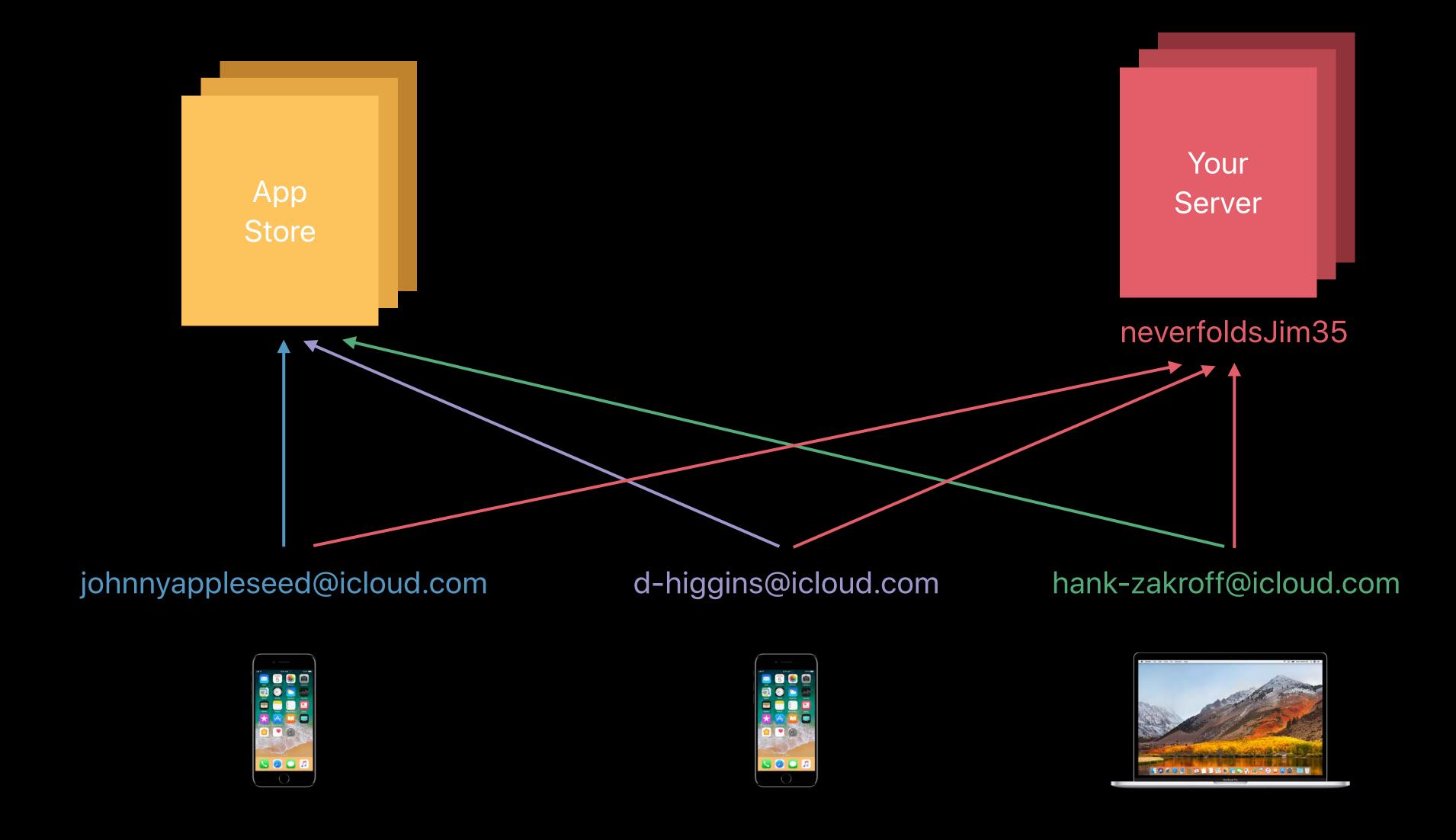
Done

Suspicious activity during payment process

Suspicious activity during payment process



Suspicious activity during payment process



Provide an account identifier

Provide an account identifier

For applications with their own account management

Provide an account identifier

For applications with their own account management

Provide an account identifier

For applications with their own account management

Provide an opaque identifier for your user's account

Don't send us the user's Apple ID

Provide an account identifier

For applications with their own account management

- Don't send us the user's Apple ID
- Don't provide the actual account name

Provide an account identifier

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- Don't send us the user's Apple ID
- Don't provide the actual account name
- Don't provide the password

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- Don't send us the user's Apple ID
- Don't provide the actual account name
- Don't provide the password
- We suggest using a hash of the account name

Detecting Irregular Activity

Provide an account identifier

For applications with their own account management

Provide an opaque identifier for your user's account

- Don't send us the user's Apple ID
- Don't provide the actual account name
- Don't provide the password
- We suggest using a hash of the account name

```
let payment = SKPayment(product: product)
payment.applicationUsername = hash(yourCustomerAccountName)
SKPaymentQueue.default().add(payment)
```

Detecting Irregular Activity

Provide an account identifier

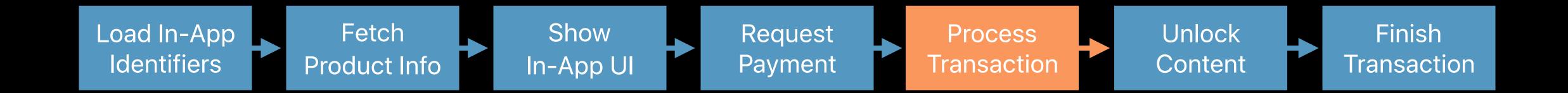
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let payment = SKPayment(product: product)
payment.applicationUsername = hash(yourCustomerAccountName)
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```

In-App Purchase Process



```
// Start Observing the Payment Queue
import UIKit
import StoreKit
@UIApplicationMain
class AppDelegate: UIResponder, UIApplicationDelegate, SKPaymentTransactionObserver {
   func application(application: UIApplication, didFinishLaunchingWithOptions
            launchOptions: [NSObject: AnyObject]?) -> Bool {
       SKPaymentQueue.default().add(self)
       return true
```

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```

```
// Handle SKPaymentQueueObserver Events
// MARK: - SKPaymentTransactionObserver
func paymentQueue(_ queue: SKPaymentQueue, updatedTransactions transactions:
        [SKPaymentTransaction]) {
   for transaction in transactions {
       switch transaction.transactionState {
       case .purchased:
            // Validate the purchase
```

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func paymentQueue(_ queue: SKPaymentQueue, updatedTransactions transactions:
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    for transaction in transactions {
        switch transaction.transactionState {
       case .purchased:
            // Validate the purchase
       case .deferred:
            // Allow the user to continue to use the app
            // It may be some time before the transaction is updated
            // Do not get stuck in a modal "Purchasing..." state!
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```

Create a mutable payment

Create a mutable payment

Set the simulatesAskToBuyInSandbox flag

Create a mutable payment

Set the simulatesAskToBuyInSandbox flag

```
let payment = SKMutablePayment(product: product)
payment.simulatesAskToBuyInSandbox = true
SKPaymentQueue.default().add(payment)
```

Not all errors are equal

Not all errors are equal

Check the error code

Not all errors are equal

Check the error code

Don't show an error alert unless necessary

Not all errors are equal

Check the error code

- Don't show an error alert unless necessary
- User canceling a payment will result in an error

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Let StoreKit handle the transaction flow as much as possible

Not all errors are equal

Check the error code

- Don't show an error alert unless necessary
- User canceling a payment will result in an error

Let StoreKit handle the transaction flow as much as possible

Including asking for confirmation for purchase



Trusted record of app and in-app purchases



Trusted record of app and in-app purchases

Stored on device



Trusted record of app and in-app purchases

Stored on device

Issued by the App Store



Trusted record of app and in-app purchases

Stored on device

Issued by the App Store

Signed and verifiable



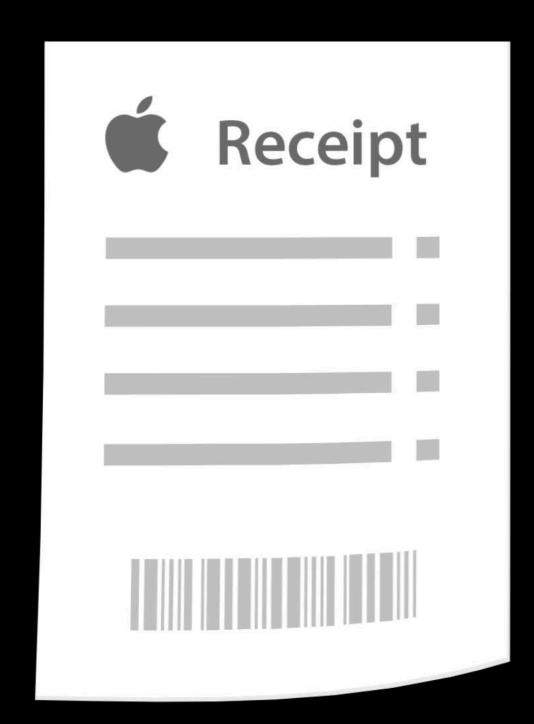
Trusted record of app and in-app purchases

Stored on device

Issued by the App Store

Signed and verifiable

For your app, on that device only





On-device validation

Unlock features and content within the app



On-device validation

Unlock features and content within the app

Server-to-server validation

- Restrict access to downloadable content
- Used often for subscriptions



On-device validation

Unlock features and content within the app

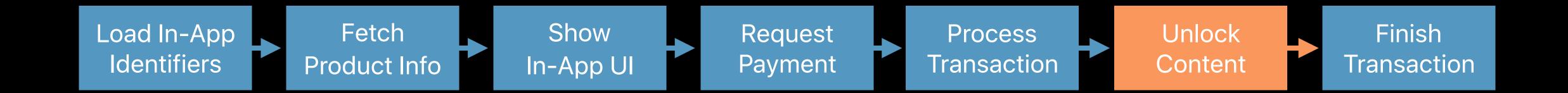
Server-to-server validation

- Restrict access to downloadable content
- Used often for subscriptions



Advanced StoreKit Thursday 1:50PM

In-App Purchase Process



Unlock Content

Unlock Content

Unlock functionality in your app

Unlock Content

Unlock functionality in your app

Download additional content

Apple-hosted content

Apple-hosted content

On-demand resources

Apple-hosted content

- On-demand resources
- Hosted in-app purchase content

Apple-hosted content

- On-demand resources
- Hosted in-app purchase content

Self-hosted content

Apple-hosted content

- On-demand resources
- Hosted in-app purchase content

Self-hosted content

Use background downloads with NSURLSession

In-App Purchase Process



Finish all transactions once content is unlocked

If downloading hosted content, wait until after the download completes

Finish all transactions once content is unlocked

• If downloading hosted content, wait until after the download completes

Includes all auto-renewable subscription transactions

Finish all transactions once content is unlocked

If downloading hosted content, wait until after the download completes

Includes all auto-renewable subscription transactions

Otherwise, the payment will stay in the queue

Finish all transactions once content is unlocked

• If downloading hosted content, wait until after the download completes

Includes all auto-renewable subscription transactions

Otherwise, the payment will stay in the queue

Subscription billing retry depends on up-to-date information about transaction

Finish all transactions once content is unlocked

• If downloading hosted content, wait until after the download completes

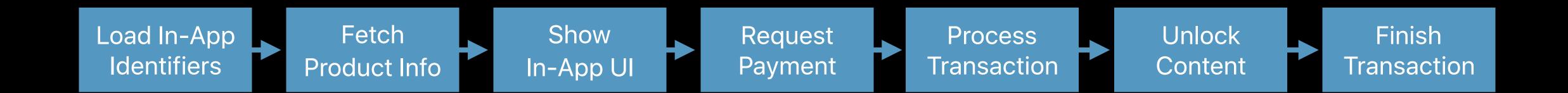
Includes all auto-renewable subscription transactions

Otherwise, the payment will stay in the queue

Subscription billing retry depends on up-to-date information about transaction

SKPaymentQueue.default().finishTransaction(transaction)

In-App Purchase Process



You must have a Restore button

You must have a Restore button

Restore and Purchase must be separate buttons

You must have a Restore button

Restore and Purchase must be separate buttons

Not just as a "backup" tool

You must have a Restore button

Restore and Purchase must be separate buttons

Not just as a "backup" tool

Users with multiple devices

Only restores transactions for

- Non-consumables
- Auto-renewable subscriptions

For consumables and non-renewing subscriptions

You must persist the state!

SKPaymentQueue.default().restoreCompletedTransactions()

```
SKPaymentQueue.default().restoreCompletedTransactions()
```

Observe the queue

```
// Additional callbacks in SKPaymentTransactionObserver
func paymentQueueRestoreCompletedTransactionsFinished(_ queue: SKPaymentQueue) {}
func paymentQueue(_ queue: SKPaymentQueue,
    restoreCompletedTransactionsFailedWithError error: NSError) {}
```

Inspect the receipt and unlock content and features accordingly

Always observe the Payment Queue

Always observe the Payment Queue

Fetch localized product information from the App Store

Always observe the Payment Queue

Fetch localized product information from the App Store

Display pricing using the product's price locale

Always observe the Payment Queue

Fetch localized product information from the App Store

Display pricing using the product's price locale

Use the receipt to validate your purchases

Always observe the Payment Queue

Fetch localized product information from the App Store

Display pricing using the product's price locale

Use the receipt to validate your purchases

Make the content available

Always observe the Payment Queue

Fetch localized product information from the App Store

Display pricing using the product's price locale

Use the receipt to validate your purchases

Make the content available

Finish the transaction

Always observe the Payment Queue

Fetch localized product information from the App Store

Display pricing using the product's price locale

Use the receipt to validate your purchases

Make the content available

Finish the transaction

Allow the user to restore completed transactions

Promoting In-App Purchases

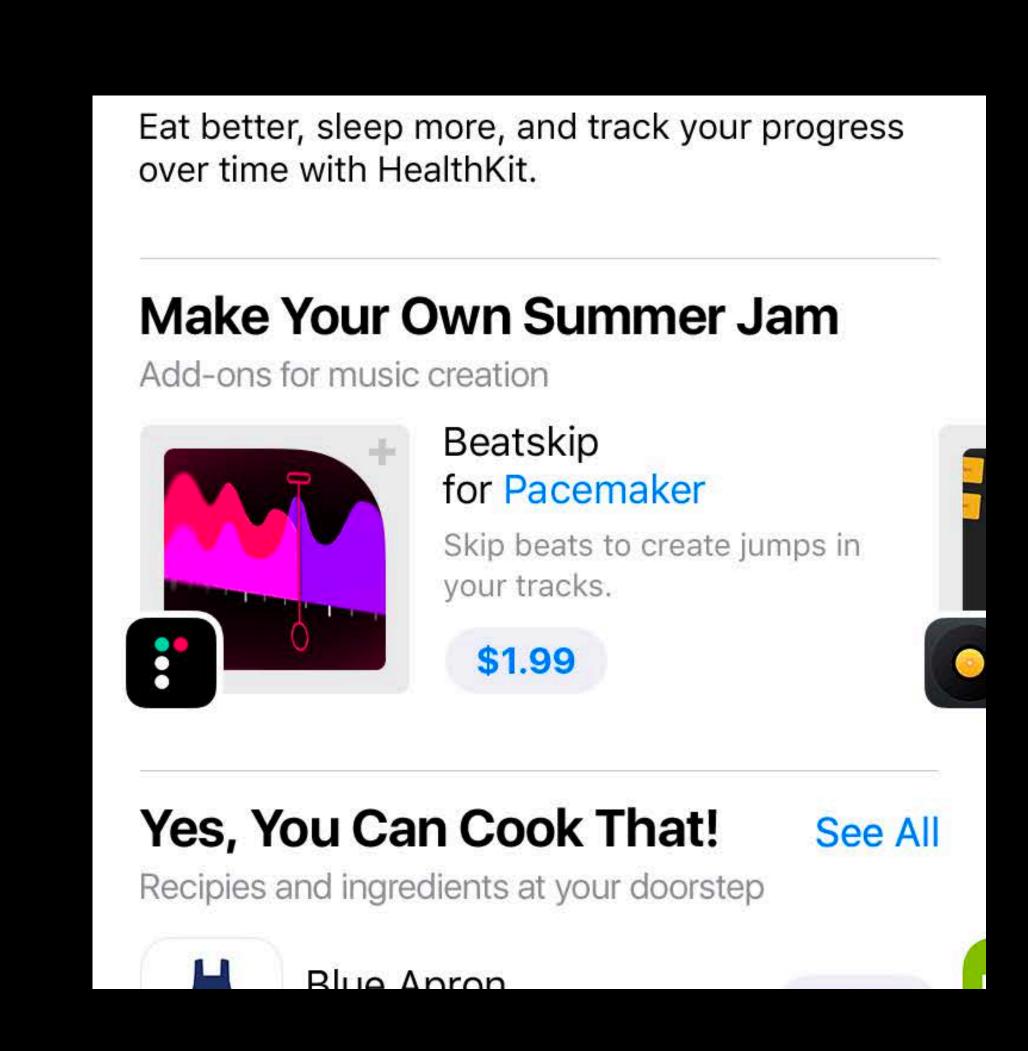
Ross LeBeau, App Store Engineer

Promoting In-App Purchases

Discoverable

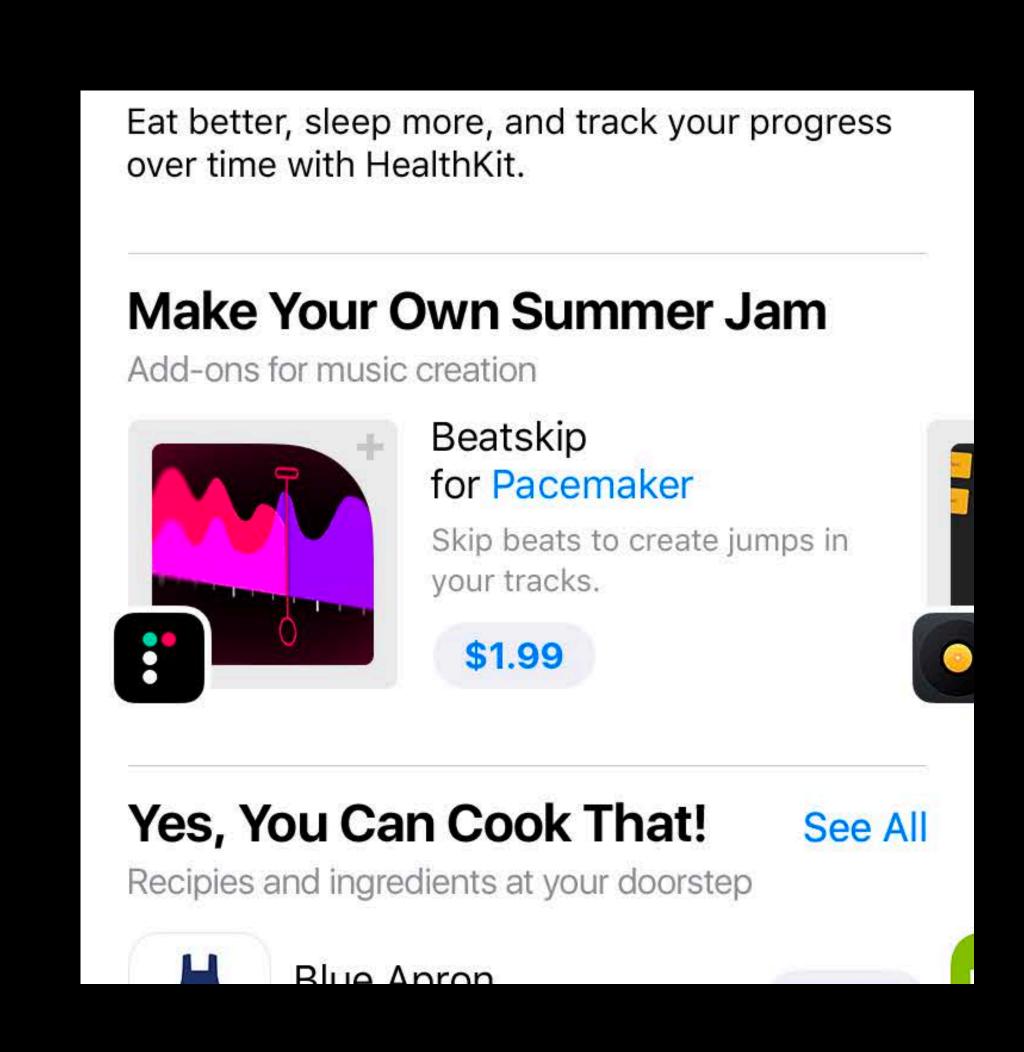
Discoverable

App page



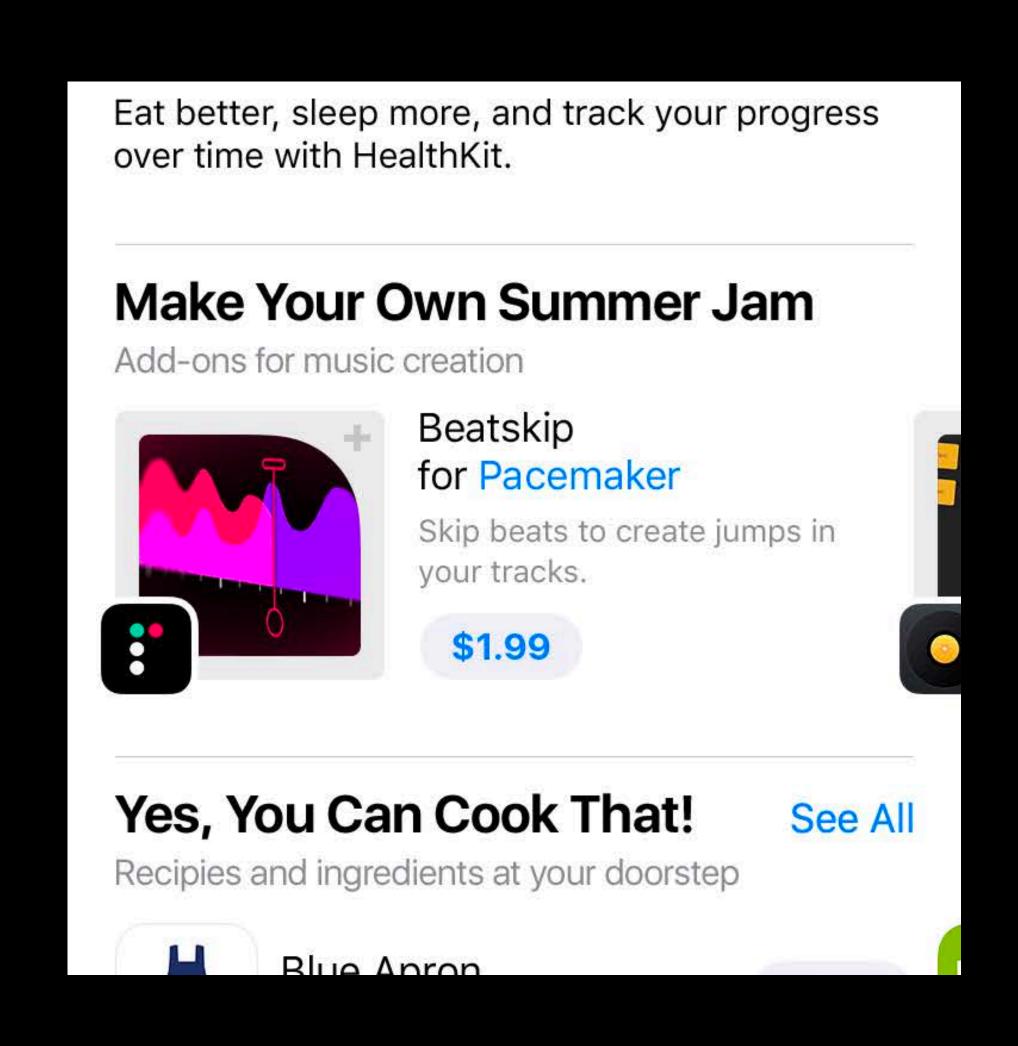
Discoverable

- App page
- Editorial features



Discoverable

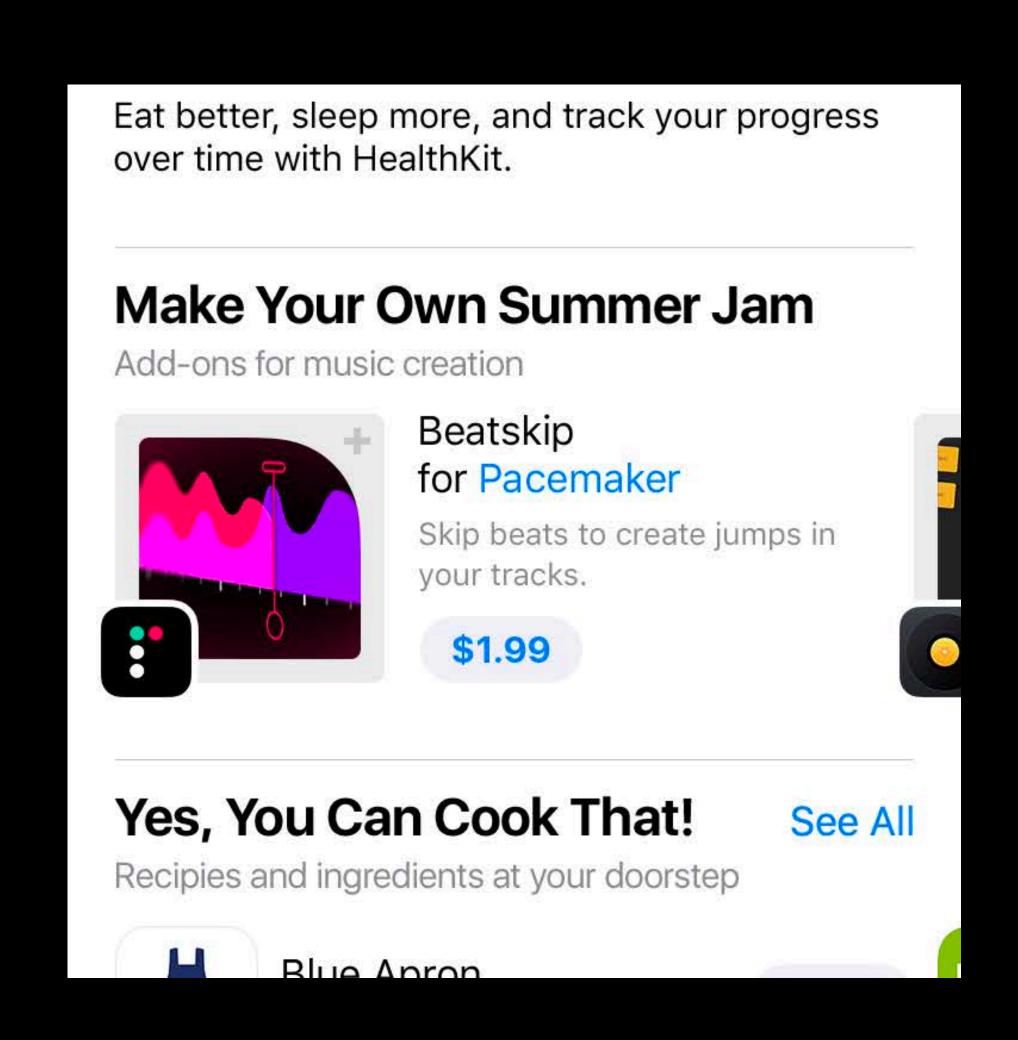
- App page
- Editorial features
- Search results



Discoverable

- App page
- Editorial features
- Search results

Start purchase on the App Store



Required

- Set up in iTunes Connect
- Handle info from App Store

Required

- Set up in iTunes Connect
- Handle info from App Store

Optional

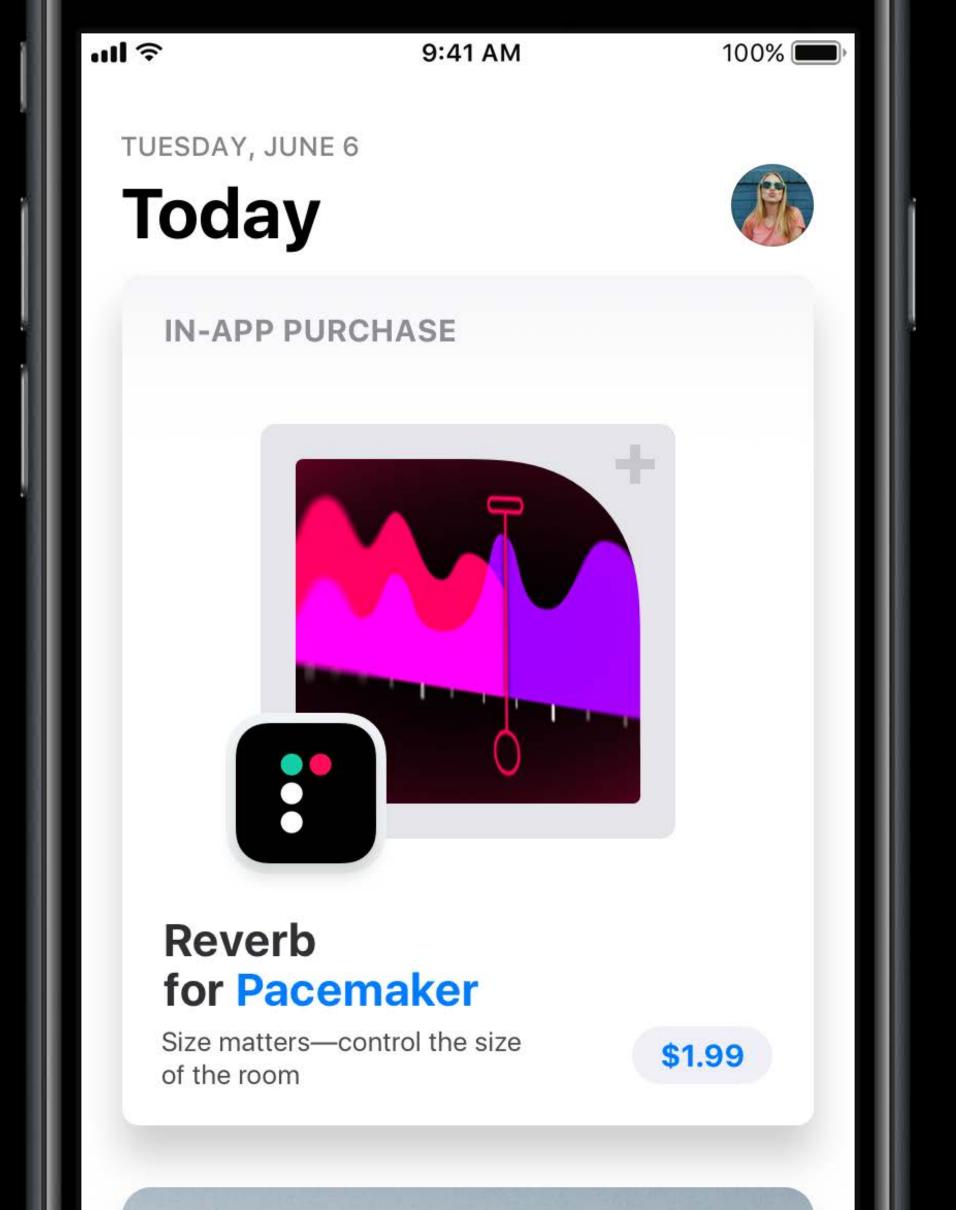
Order and visibility

Required

- Set up in iTunes Connect
- Handle info from App Store

Optional

Order and visibility













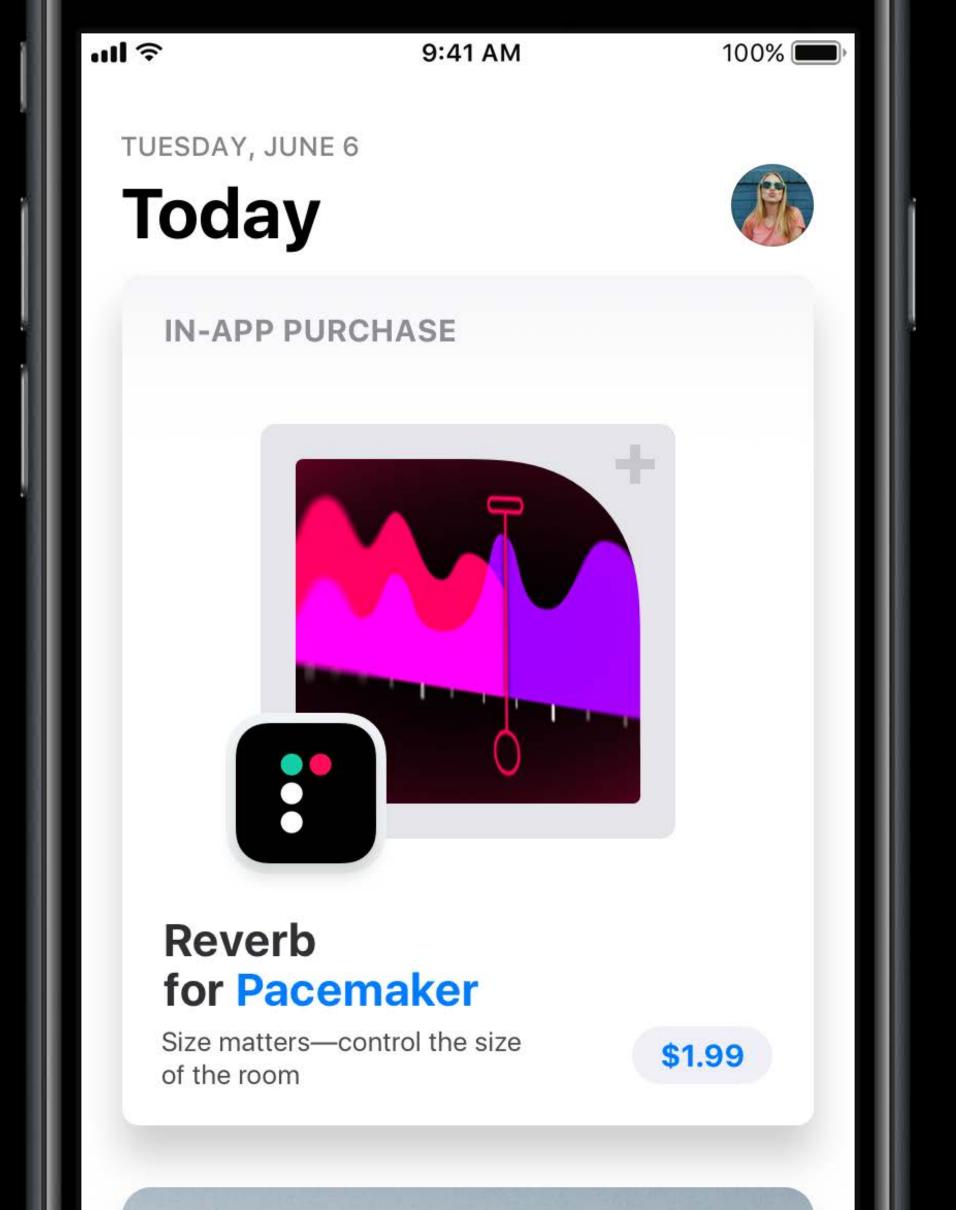
Today

Games

Apps

Updates

Search













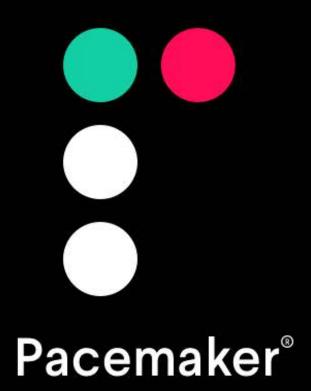
Today

Games

Apps

Updates

Search





App Store

Cancel



REVERB PACEMAKER IN-APP PURCHASE

RATING 4+

ACCOUNT J.APPLESEED@ICLOUD.COM

PAY APP STORE

\$1.99



Buy with Touch ID



App Store

Cancel



REVERB PACEMAKER IN-APP PURCHASE

RATING 4+

ACCOUNT J.APPLESEED@ICLOUD.COM

PAY APP STORE

\$1.99



Done

SKPaymentQueue.default().add(savedPayment)

Testing Purchases

Protocol	itms-services://	
Parameters	"action"	"purchaseIntent"
	"bundleId"	com.example.app
	"productIdentifier"	product_name

Testing Purchases

Protocol	itms-services://	
Parameters	"action"	"purchaseIntent"
	"bundleId"	com.example.app
	"productIdentifier"	product_name

itms-services://?action=purchaseIntent&bundleId=com.example.app&productIdentifier=product_name

Defaults in iTunes Connect

Defaults in iTunes Connect

Override on device

Defaults in iTunes Connect

Override on device

Not synced

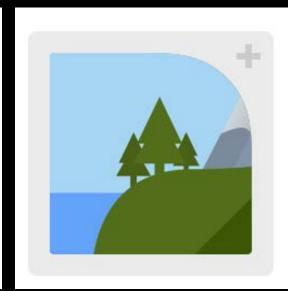
Visibility



Pro Subscription

Detailed topography and satellite imagery.

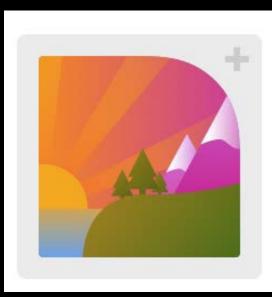
\$35.99



Fishing Hot Spots

Find hidden streams and lakes for hundreds of top fishing spots.

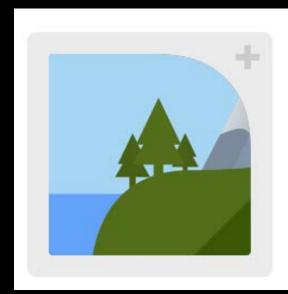
\$1.99



Hidden Beaches

Get to the most isolated beaches away from all the tourists.

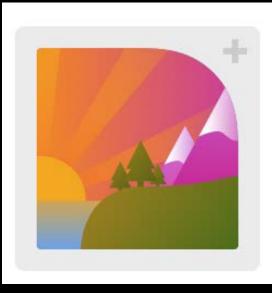
Visibility



Fishing Hot Spots

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Hidden Beaches

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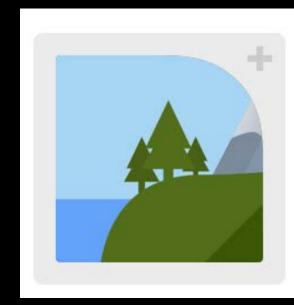
Order



Pro Subscription

Detailed topography and satellite imagery.

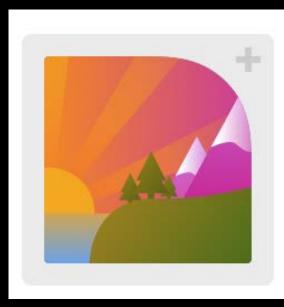
\$35.99



Fishing Hot Spots

Find hidden streams and lakes for hundreds of top fishing spots.

\$1.99



Hidden Beaches

Get to the most isolated beaches away from all the tourists.

Order



Hidden Beaches

Get to the most isolated beaches away from all the tourists.

\$1.99



Pro Subscription

Detailed topography and satellite imagery.

\$35.99



Fishing Hot Spots

Find hidden streams and lakes for hundreds of top fishing spots.

Discoverable in App Store

Discoverable in App Store

Set up in iTunes Connect

Discoverable in App Store

Set up in iTunes Connect

Start purchase in App Store

Discoverable in App Store

Set up in iTunes Connect

Start purchase in App Store

Handle in app via SKPaymentTransactionObserver

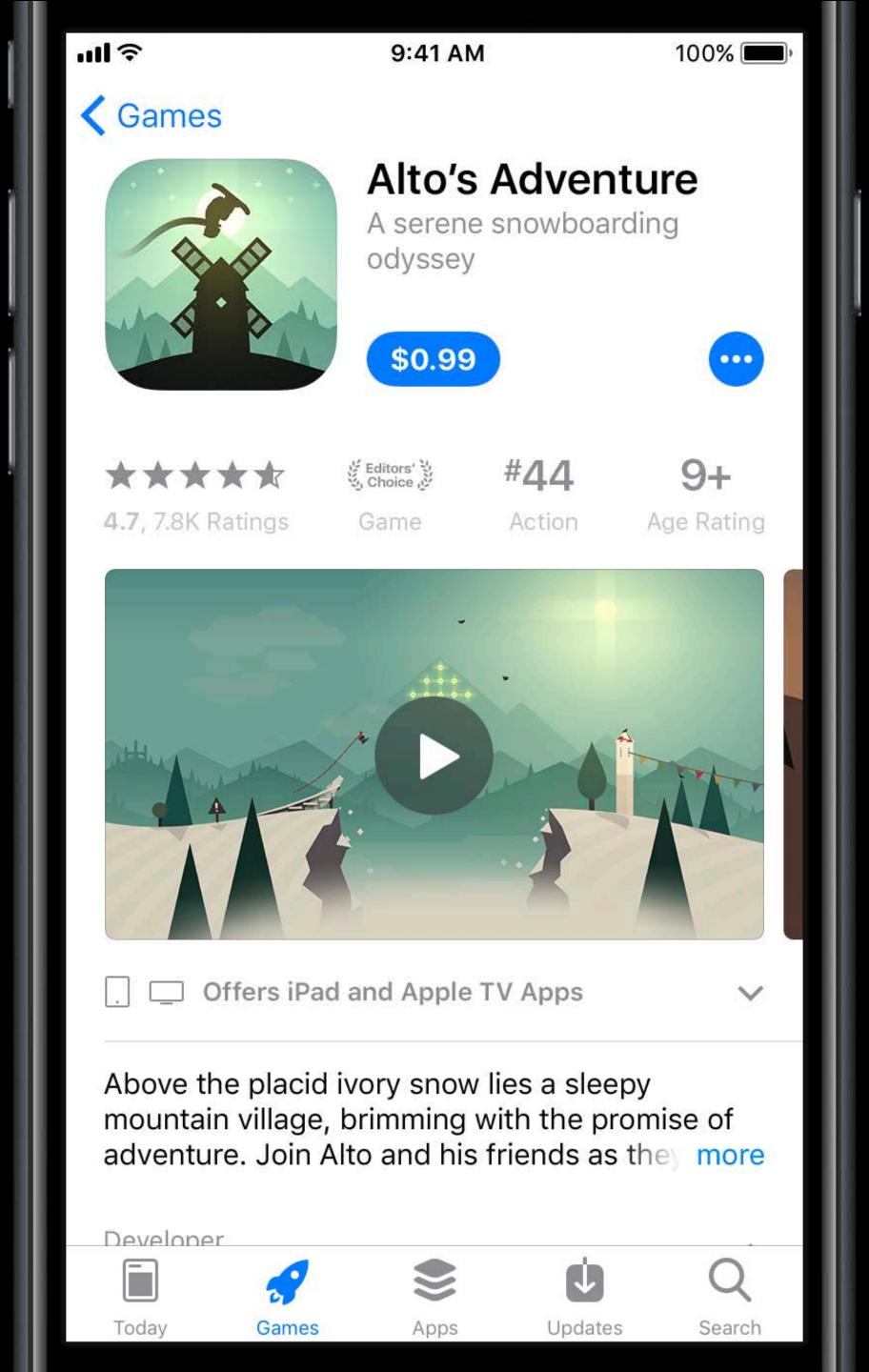
Discoverable in App Store

Set up in iTunes Connect

Start purchase in App Store

Handle in app via SKPaymentTransactionObserver

Optional—order and visibility



ul 🕏

9:41 AM



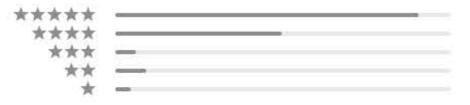




\$0.99

Ratings & Reviews

See All



out of 5

7,867 Ratings

Truly Amazing Game

1d ago



CuriousFox25

This game is wonderful and highly enjoyable for the entire family! I love how easy it is to pick up and play wherever you are. If you need an infinite runner to play with the kids, this is the one to get. After a long day, the colorful visuals and cheery music always put me in a good mood more



Editors' Choice



In this gorgeous twist on the infinite runner, you guide an agile snowboarder down a never ending mountain, pulli more









Today

Updates

Search



9:41 AM





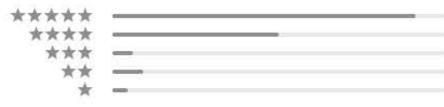


\$0.99

Ratings & Reviews

See All

4.7



out of 5

7,867 Ratings

Impossible to Stop Playing

2d ago



PhilSchiller

This game rocks! Ever since I unlocked the wingsuit I haven't been able to put it down... even during our ET meetings.

Developer Response

1h ago

Just make sure to keep the volume off!



In this gorgeous twist on the infinite runner, you guide an agile snowboarder down a never ending mountain, pulli more











Today

Games

Apps

Updates

Search



9:41 AM





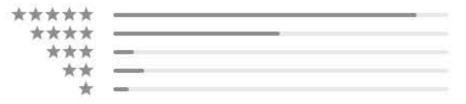


\$0.99

Ratings & Reviews

See All

4.7



out of 5

7,867 Ratings

A Fun Challenge

4d ago



F1racer09

I can't even count how many hours I've spent playing this awesome game. The visuals are stunning and doing backflips is so addictive. But it's not easy—I had to replay one level multiple times before moving on. I'm getting better each time I play, but I still have a lot to learn.



In this gorgeous twist on the infinite runner, you guide an agile snowboarder down a never ending mountain, pulli more











Today

Games

Apps

Updates

Search

What's new



What's new



Reset your rating

What's new



Reset your rating

Respond to reviews

What's new



Reset your rating

Respond to reviews

Ask for ratings and reviews via SKStoreReviewController

What's new



Reset your rating

Respond to reviews

Ask for ratings and reviews via SKStoreReviewController

Deep link to write review in the App Store

What's new



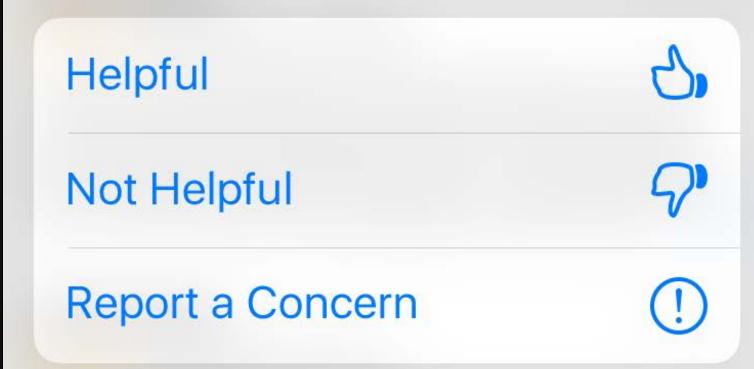
Reset your rating

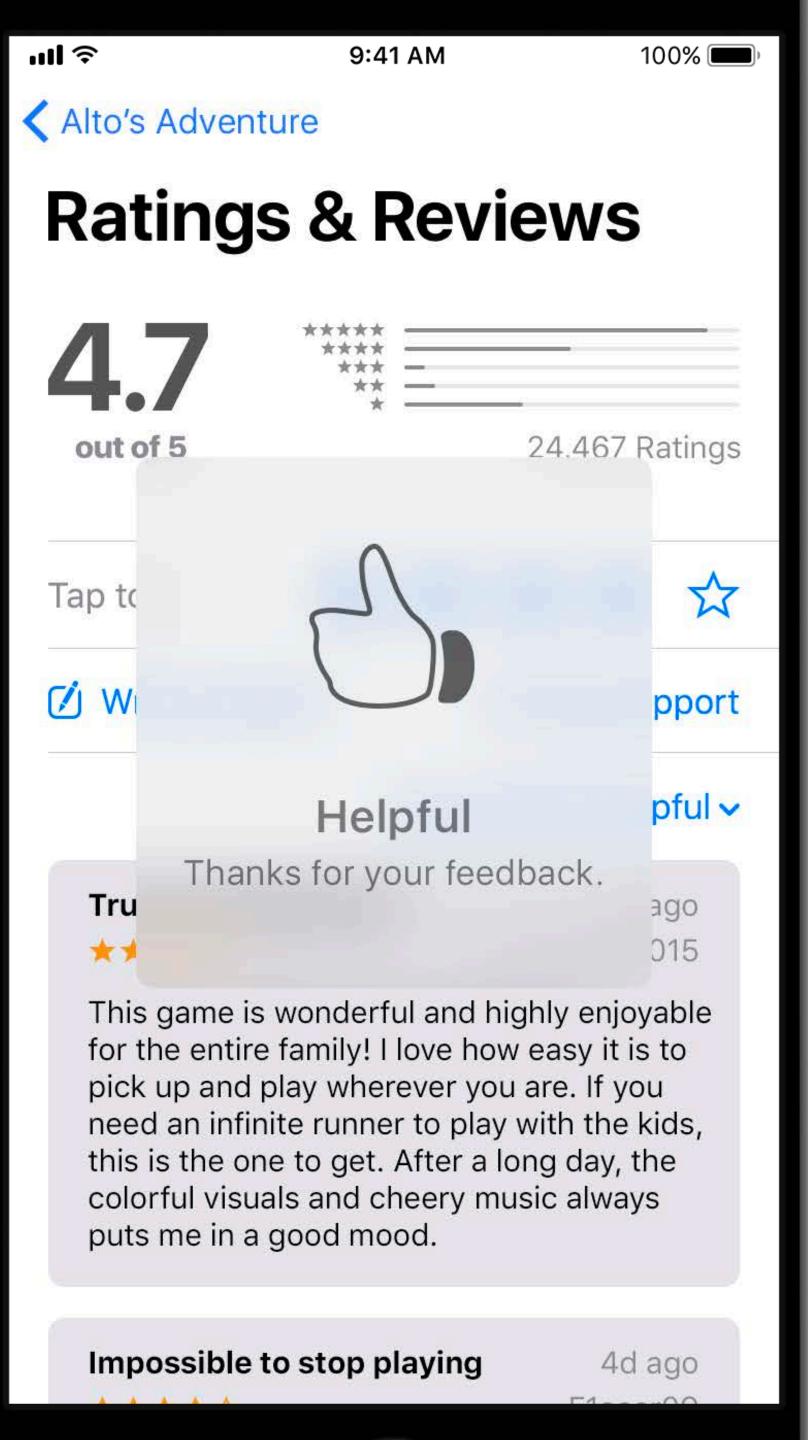
Respond to reviews

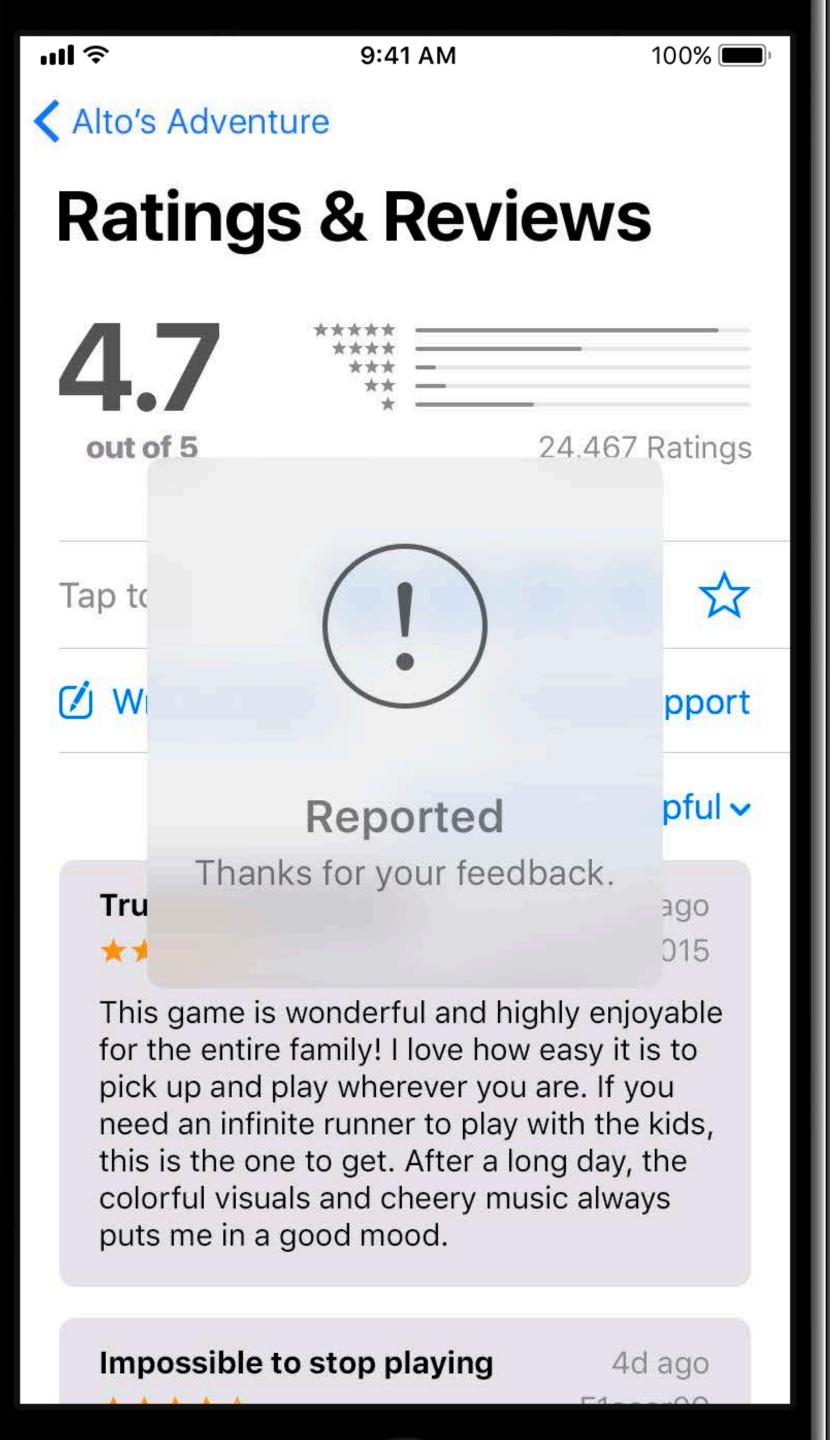
Ask for ratings and reviews via SKStoreReviewController

Deep link to write review in the App Store

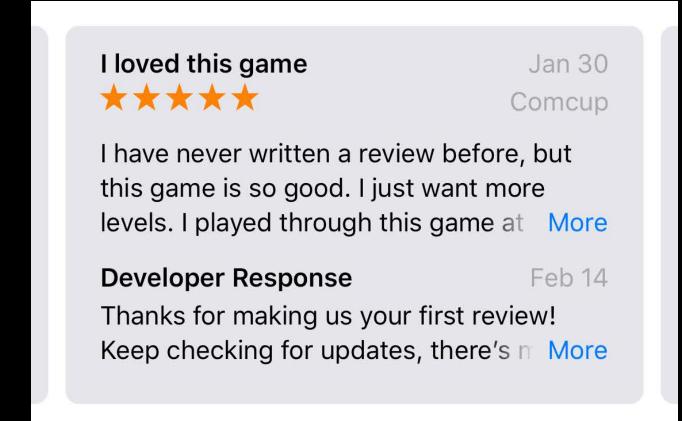
Helpfulness and Report a Concern on iOS







Responding to reviews



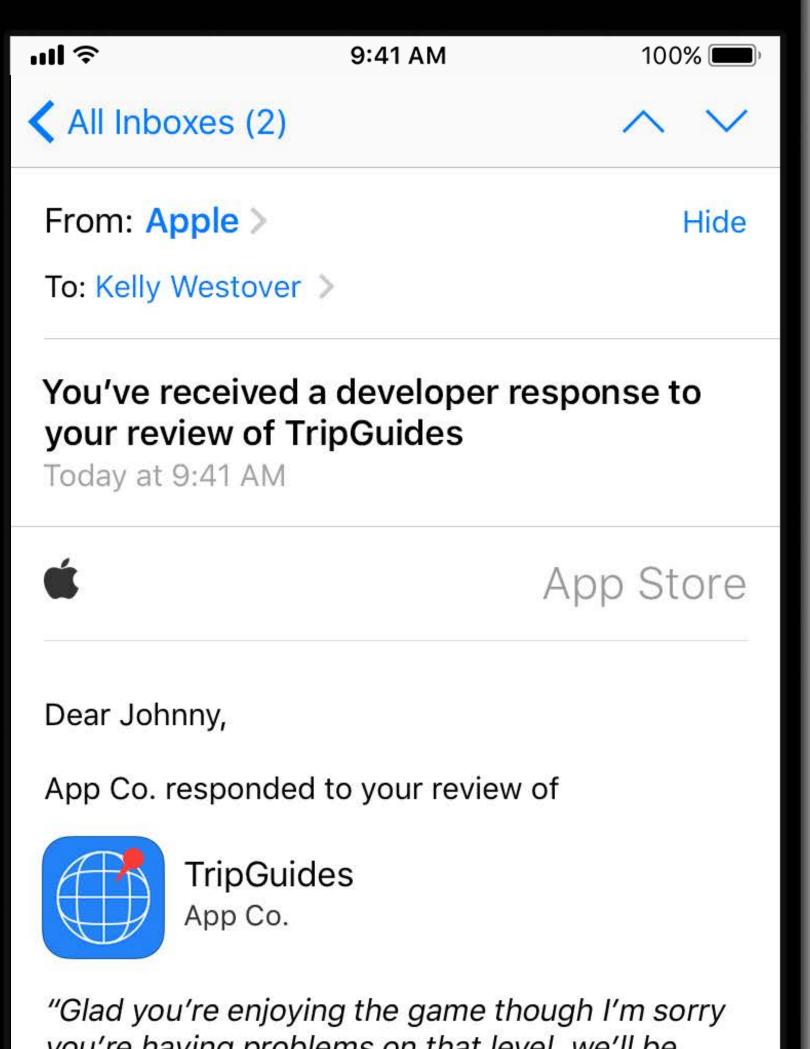
Awesome game

Feb 2

De Maximus

If you like unusual challenge of ripping a paper up to save the cute little guys, this game is fun to be stumped, save the More

Developer Response Mar 16
Glad you had fun getting stumped. We're big fans of unusual challenges, too. More



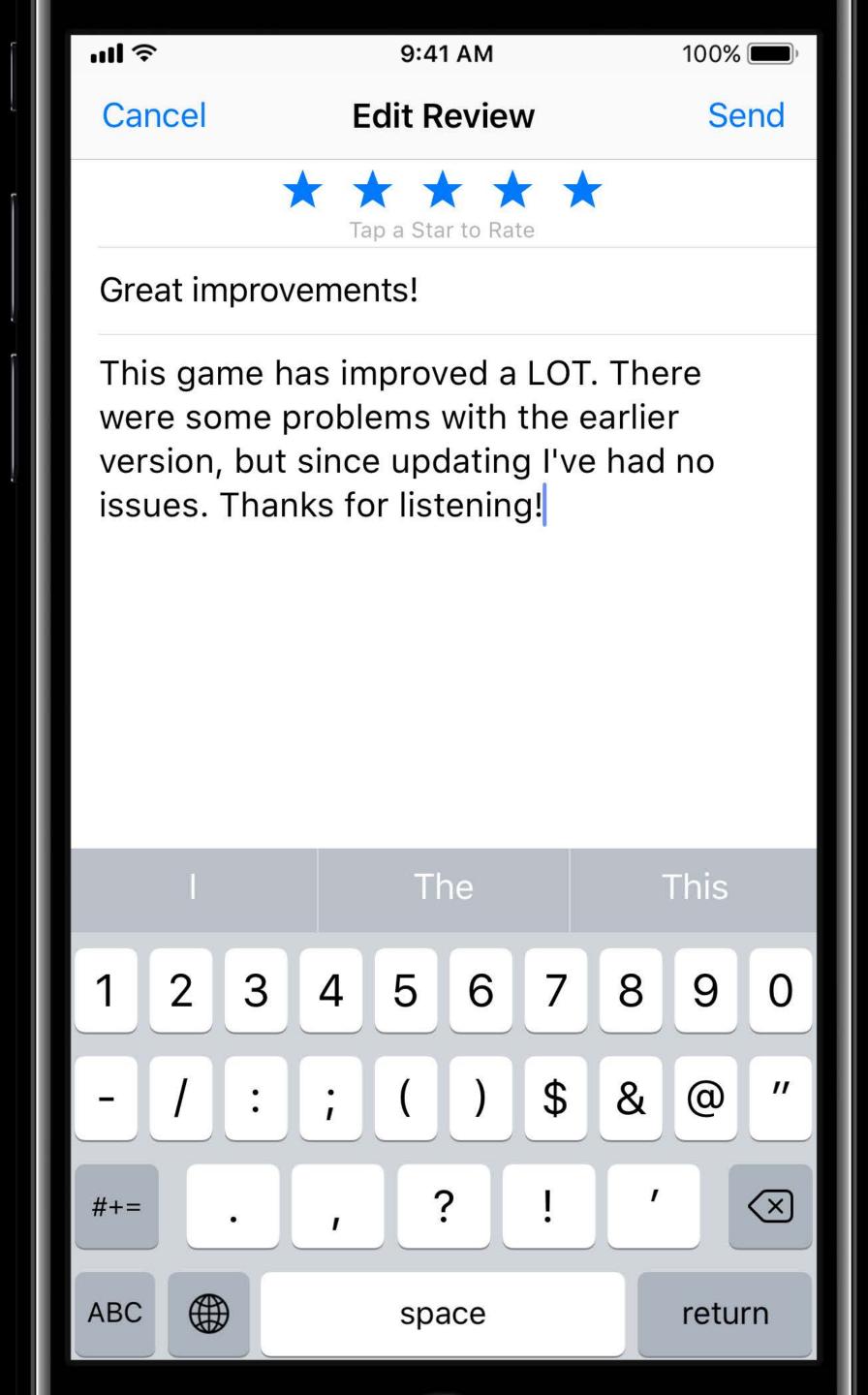
"Glad you're enjoying the game though I'm sorry you're having problems on that level, we'll be issuing an update soon to fix it. In the meantime we suggest you go level 3 manually via Load Game in the Main Menu. Sorry again!"

Do you want to update your review?

You can also email the developer.











Average increase of 1.5 stars per review

Responding to reviews

More information https://developer.apple.com/app-store/responding-to-reviews

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What's New in iTunes Connect

Receiving reviews

Receiving reviews

Prompt for review with SKStoreReviewController

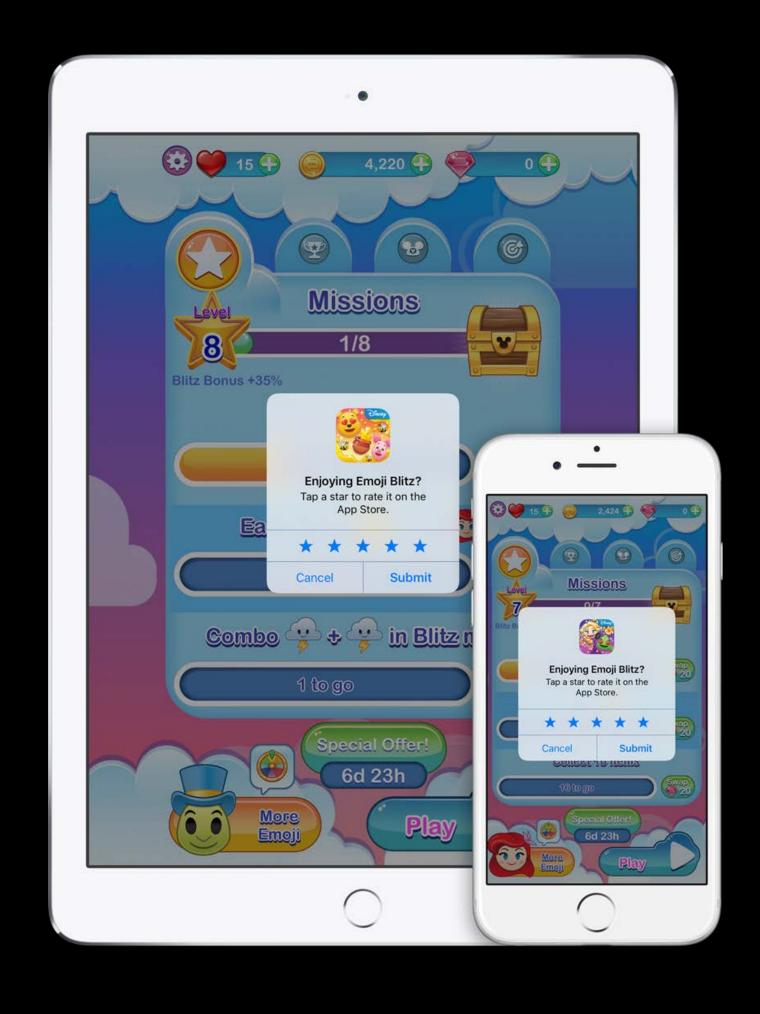
Receiving reviews

Prompt for review with SKStoreReviewController

Deep link to review in App Store

Asking for ratings and reviews with SKStoreReviewController

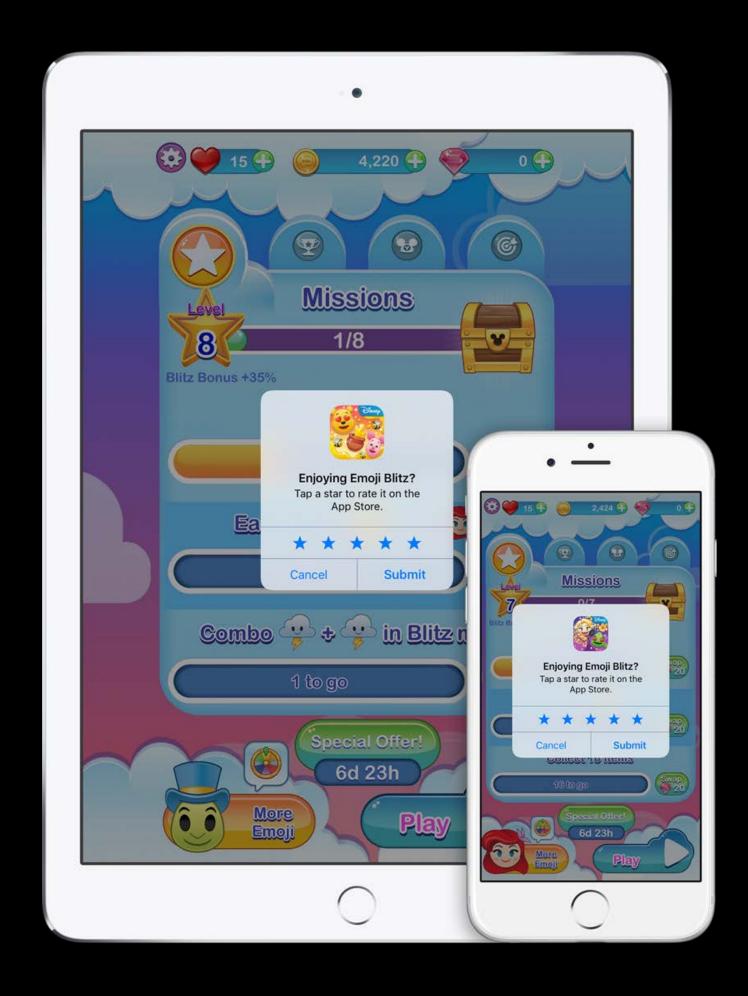




Asking for ratings and reviews with SKStoreReviewController



Introduced in iOS 10.3

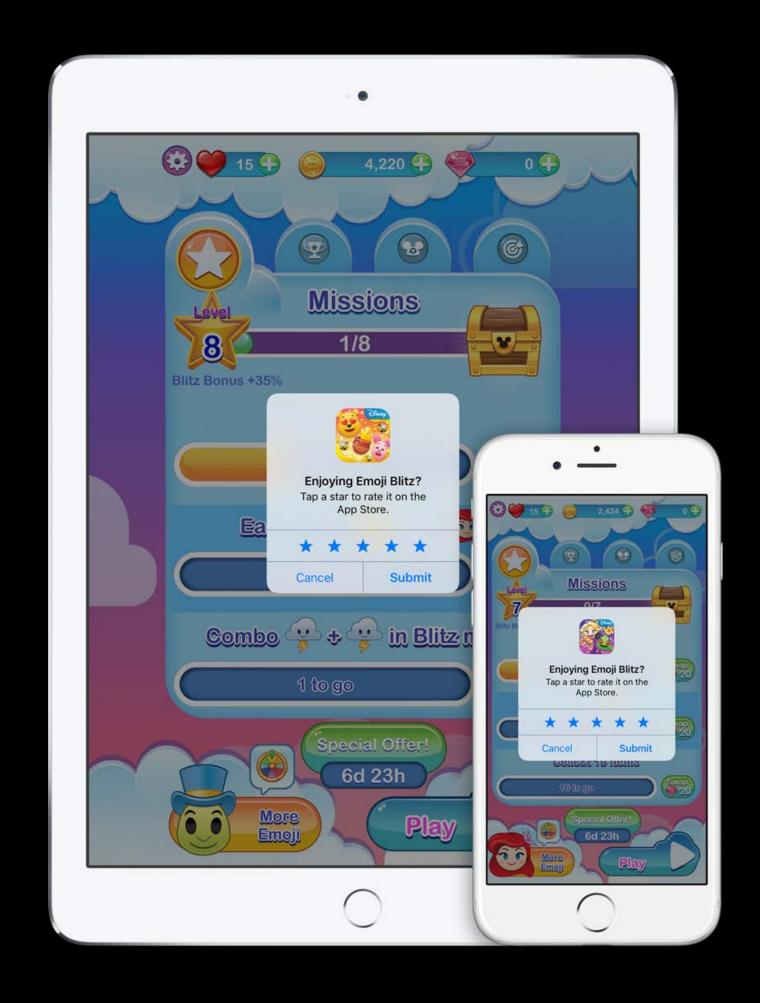


Asking for ratings and reviews with SKStoreReviewController



Introduced in iOS 10.3

Quick way to request a rating/review



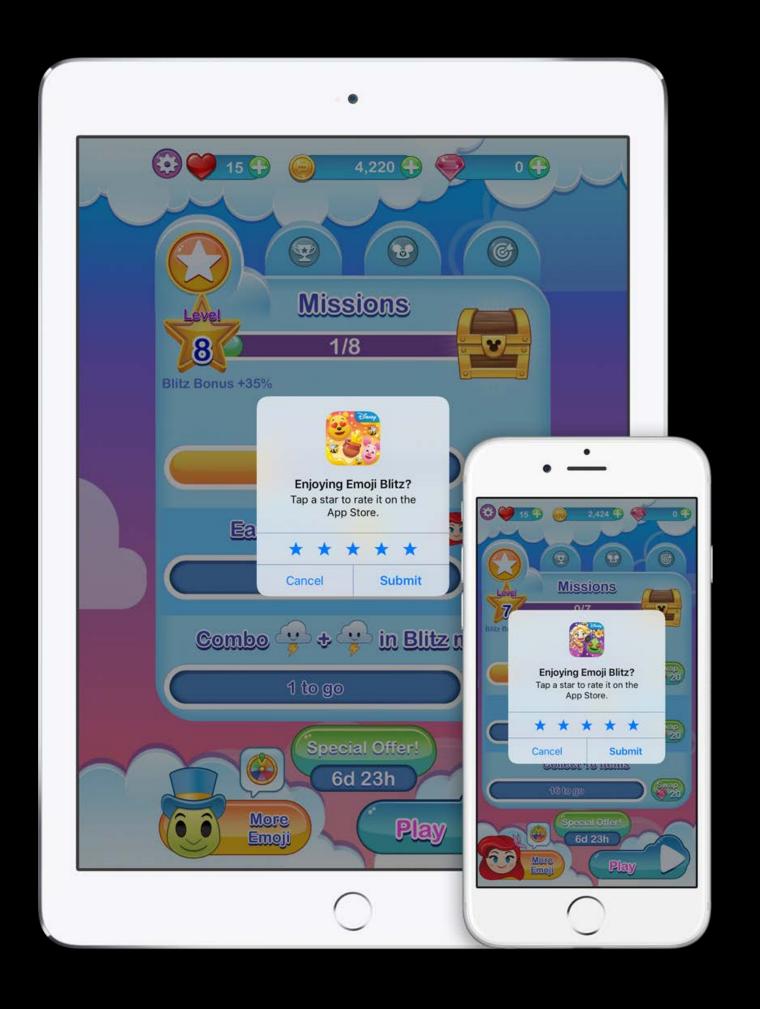
Asking for ratings and reviews with SKStoreReviewController



Introduced in iOS 10.3

Quick way to request a rating/review

Will be required for all modal rating/ review prompts



Asking for ratings and reviews with SKStoreReviewController

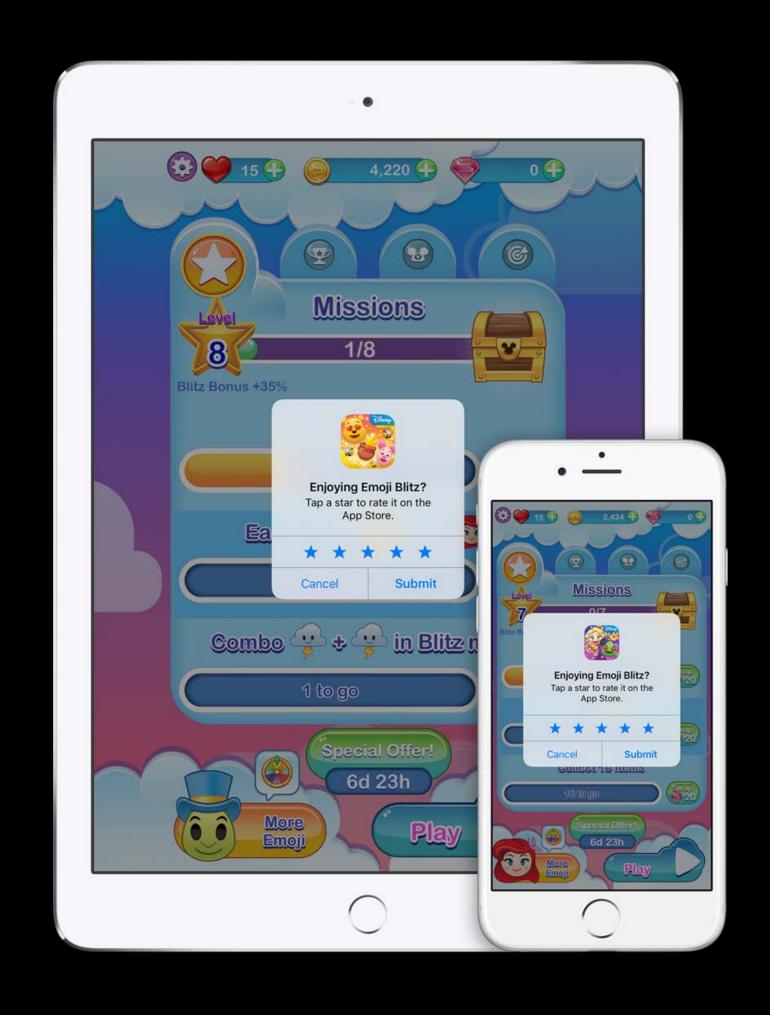


Introduced in iOS 10.3

Quick way to request a rating/review

Will be required for all modal rating/review prompts

Restrictions in place



Asking for ratings and reviews with SKStoreReviewController



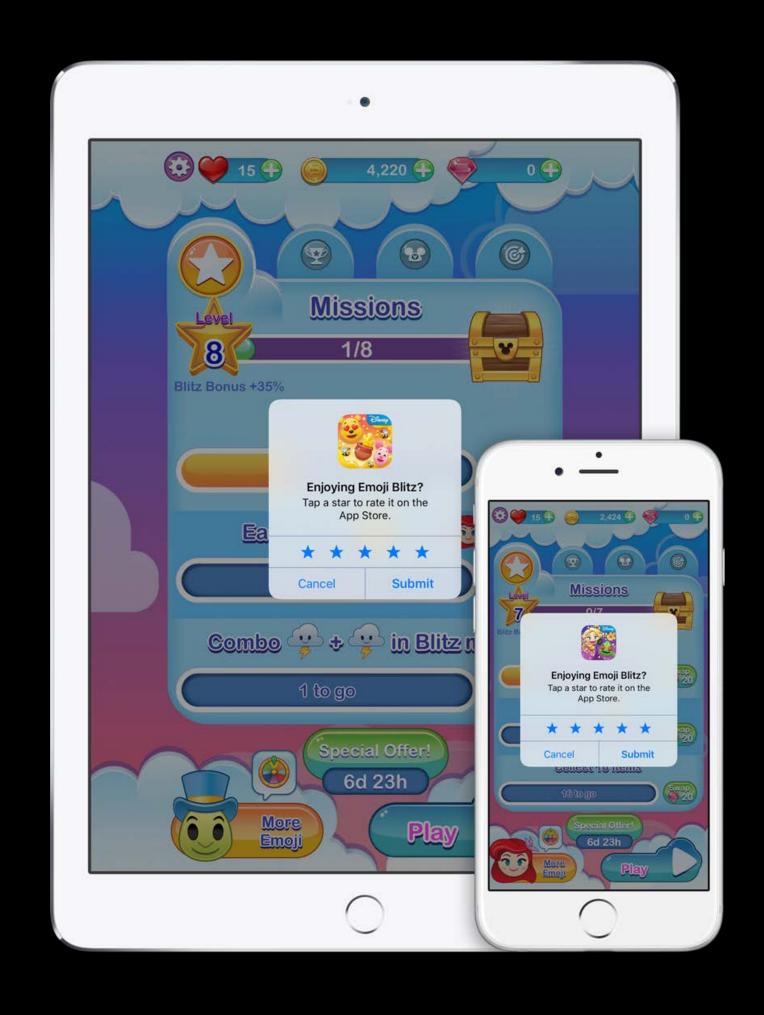
Introduced in iOS 10.3

Quick way to request a rating/review

Will be required for all modal rating/ review prompts

Restrictions in place

Limited requests per device



Asking for ratings and reviews with SKStoreReviewController



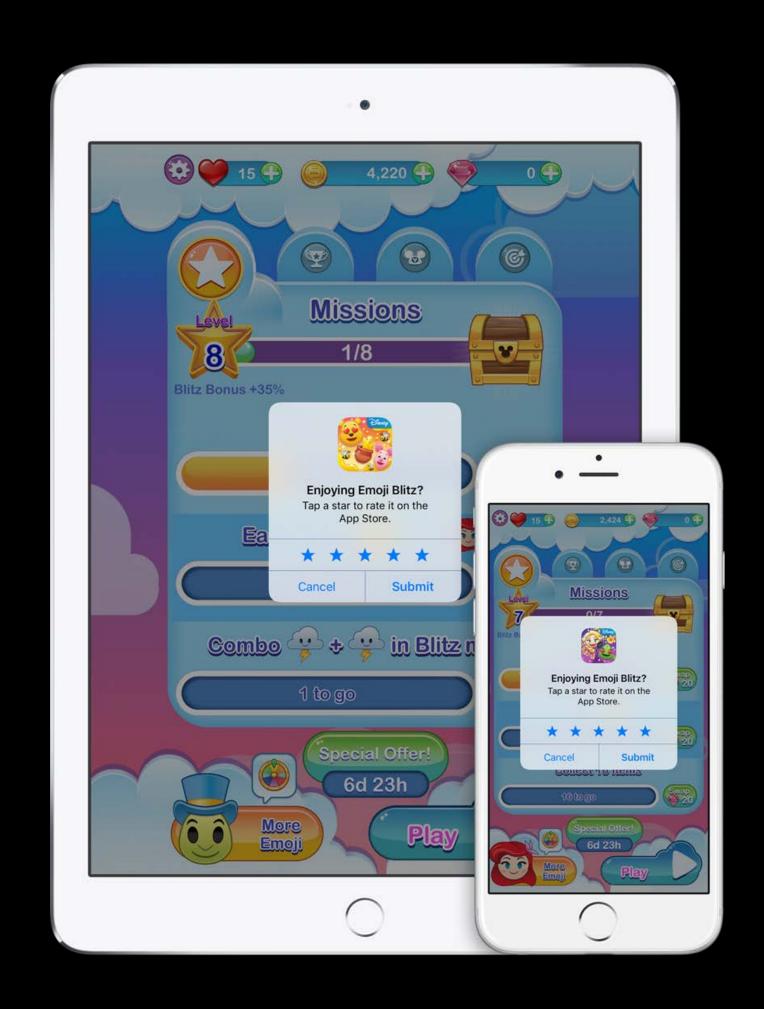
Introduced in iOS 10.3

Quick way to request a rating/review

Will be required for all modal rating/ review prompts

Restrictions in place

- Limited requests per device
- Can be disabled by user in Settings



Asking for ratings and reviews with SKStoreReviewController

Asking for ratings and reviews with SKStoreReviewController



Present as a prompt after a user action

Asking for ratings and reviews with SKStoreReviewController



Present as a prompt after a user action



Do not present from a button

May not present any UI due to restrictions

```
// Asking for Ratings and Reviews with SKStoreReviewController
if shouldPromptUser() {
   SKStoreReviewController.requestReview()
}

func shouldPromptUser() -> Bool {
   // Local business rules
}
```

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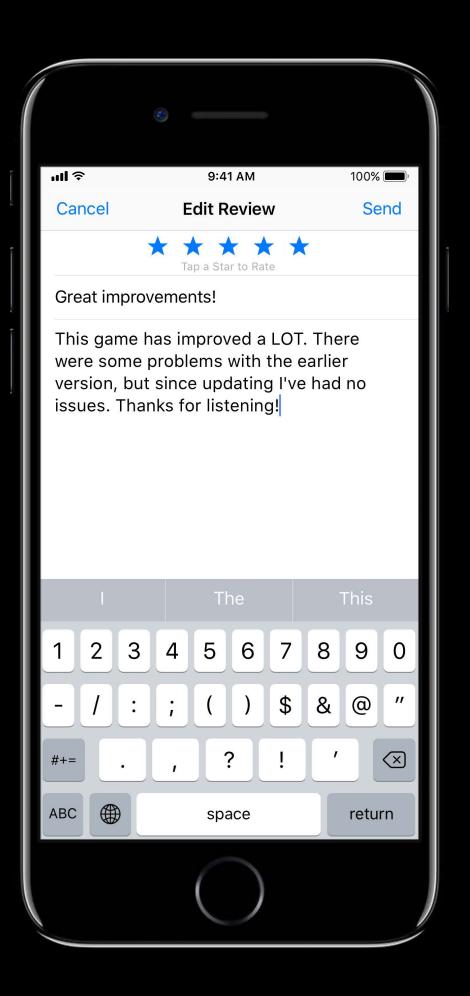
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Deep link to write a review in App Store

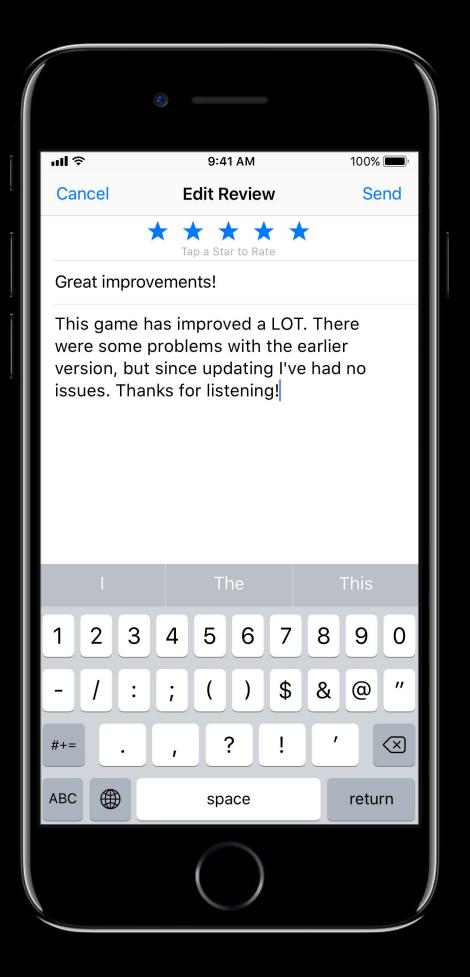




Deep link to write a review in App Store

NEW

Introduced in iOS 10.3



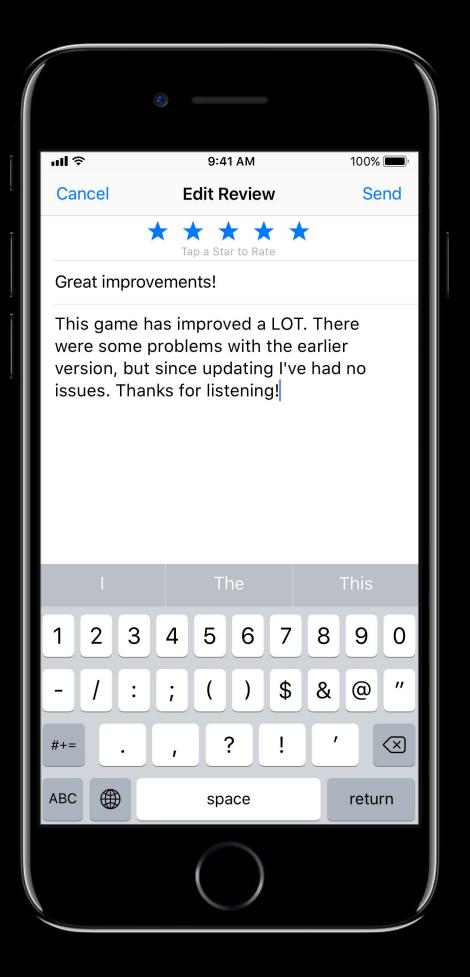
Deep link to write a review in App Store

NEW

Introduced in iOS 10.3

Link to open your app in the App Store

• Presents compose review from app page



Deep link to write a review in App Store

NEW

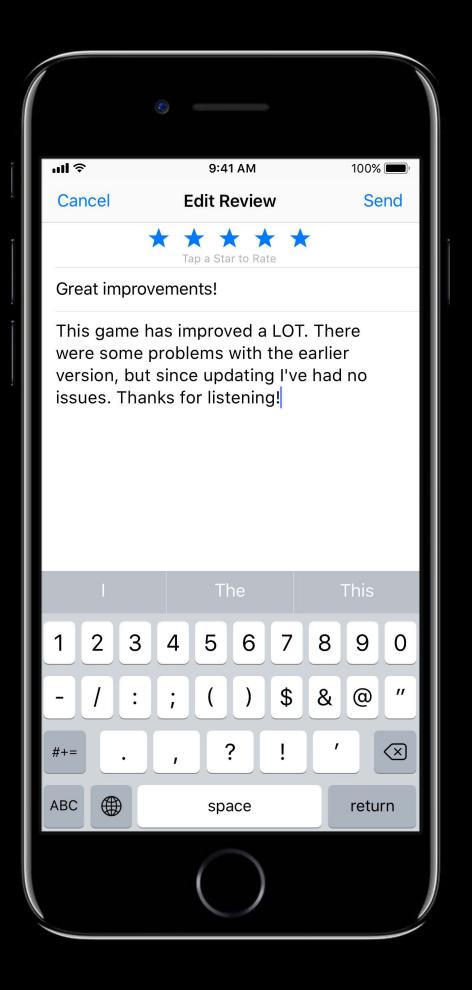
Introduced in iOS 10.3

Link to open your app in the App Store

• Presents compose review from app page

User initiated actions

Button in settings



Deep link to write a review in App Store

Deep link to write a review in App Store



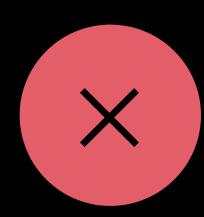
Use from an embedded button in your app

Such as a settings screen

Deep link to write a review in App Store



Use from an embedded button in your app
Such as a settings screen



Do not use from an alert

Use SKStoreReviewController instead

Deep Link to Write Review

URL is formed using regular product URL with an anchor tag

https://itunes.apple.com/us/app/itunes-u/id490217893?action=write-review

For creating product URLs visit https://linkmaker.itunes.apple.com/

Asking users for reviews

More information https://developer.apple.com/app-store/ratings-and-reviews/

How to implement in-app purchases

How to implement in-app purchases

Promote in-app purchases in the App Store

How to implement in-app purchases

Promote in-app purchases in the App Store

New App Store design

How to implement in-app purchases

Promote in-app purchases in the App Store

New App Store design

New opportunities to improve your ratings and reviews

More Information

https://developer.apple.com/wwdc17/303

Related Sessions

What's New in iTunes Connect		WWDC 2017
Introducing the New App Store		WWDC 2017
Advanced StoreKit	Grand Ballroom A	Thursday 1:50PM

Labs

App Store and iTunes Connect Lab	Technology Lab H	Thu 12:00PM-1:50PM
StoreKit Lab	Technology Lab E	Thu 3:10PM-6:00PM
StoreKit Lab	Technology Lab E	Fri 1:50PM-4:00PM

SWWDC17