

MONAHRQ Extensibility

MONAHRQ was designed with modularity in mind. Many core components are implemented as modules using techniques described in this document, such as `Monahrq.Wing.Ahrq` and `Monahrq.Wing.HospitalCompare`.

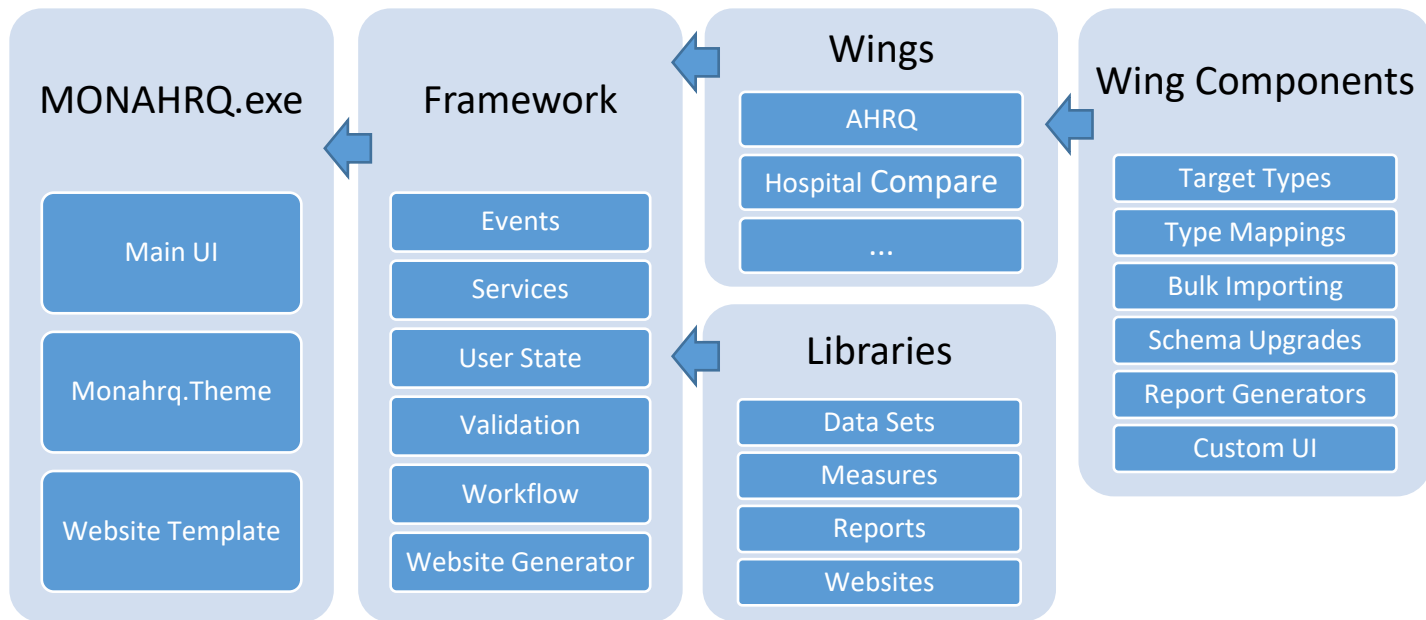


Figure 1 MONAHRQ component overview

MONAHRQ offers four options to developers wishing to extend its functionality:

Name	Applications	Language
XML Wing	<ul style="list-style-type: none">Defining a custom Data SetCreating new reportsDefining measures and topics	XML
Report Definition¹	<ul style="list-style-type: none">Creating a new report	XML
Flutter	<ul style="list-style-type: none">Writing the web UI for a report	AngularJS
.NET Wing	<ul style="list-style-type: none">Defining a custom Data SetCustomizing the import or mapping process for a Data SetGenerating data for a new reportDefining measures and topicsChanging other aspects of MONAHRQ's behavior	C#, VB.NET

¹ Report definitions may be included as part of an XML Wing

Wings (XML) and Flutters

The Open Source XML Wings and Flutters Framework allows developers to define custom data set types (Wings) and associated reports using only XML, and custom UIs for generated reports (Flutters) using AngularJS.

Wings and Flutters developed using this framework are loaded into MONAHRQ by the Host User through the “Manage Wings & Flutters” tab of the Settings library.

See <https://github.com/AHRQ/MONAHRQ-Framework> for more information on the open source MONAHRQ framework.

Report Definitions

Report definitions are XML files parsed by MONAHRQ at runtime. They may be embedded in an XML Wing or added to the MONAHRQ program directory as a stand-alone report. For more information, see *Error! Reference source not found.*

.NET Wings

A .NET Wing is the most feature-rich option for extending MONAHRQ’s functionality. It is implemented as a .NET class library that exports new types using MEF and Prism. The bulk of this document is applicable to .NET Wings. For more information, see *Error! Reference source not found.*