

01 Overview

This application template showcases our *UI framework* for applications with graphical user interfaces. We use this template as a container which **loads the project-specific DQMH modules dynamically** from a configuration file.

UI Framework

The *UI framework* helps us with:

- reusing UI management code
- project-specific UI layouts
- displaying a fancy splash screen
- populating the Runtime Menu dynamically
- populating a navigation module dynamically
- generating an event log for debugging

...and much more!

The *UI framework* is built on top of the [HSE Libraries](#) and consists of a collection of DQMH modules and a few helper VIs.

Framework Modules

These DQMH modules are designed to be reused, hence they are generic and not part of the project-specific code of an application:

- [Event Manager](#)
- [UI Manager](#)
- [Navigation](#)

Framework VIs

In order to dynamically load DQMH modules and to achieve some of the *UI framework* functionality, the following VIs are part of the framework, too:

Startup VI

The `/startup.vi` is used to run the application. It...

- shows a splash screen
- reads the main configuration (containing the list of modules to load)
- loads the UI Manager and the Event Manager modules
- loads a list of project modules (no static linkage)

- calls the “configure” requests of all the modules
- displays the front panel of the UI Manager module

Project VIs

These are project-related or project-specific VIs that are supplied by the *UI Framework* but can or have to be modified for each project.

- /Project/Project.lvlib: Contains the project-specific VIs
- /Project/PROJECT_InitLogging.vi: Starts the hse-logger
- /Project/PROJECT_Name-constant.vi: Name of the project
- /Project/PROJECT_RunTimeMenu.rtm: Run-Time Menu for the application
- /Project/PROJECT_SplashScreen.vi: Splash Screen
- /Project/PROJECT_StartupSteps.ctf: List of steps for the startup.vi to execute
- /Project/PROJECT_UserCredentials.vi: List of users for the built-in login feature

Project-Specific DQMH Modules

In order for DQMH modules to be compatible with our application template, these modules need to implement our [HSE DQMH flavour](#).

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