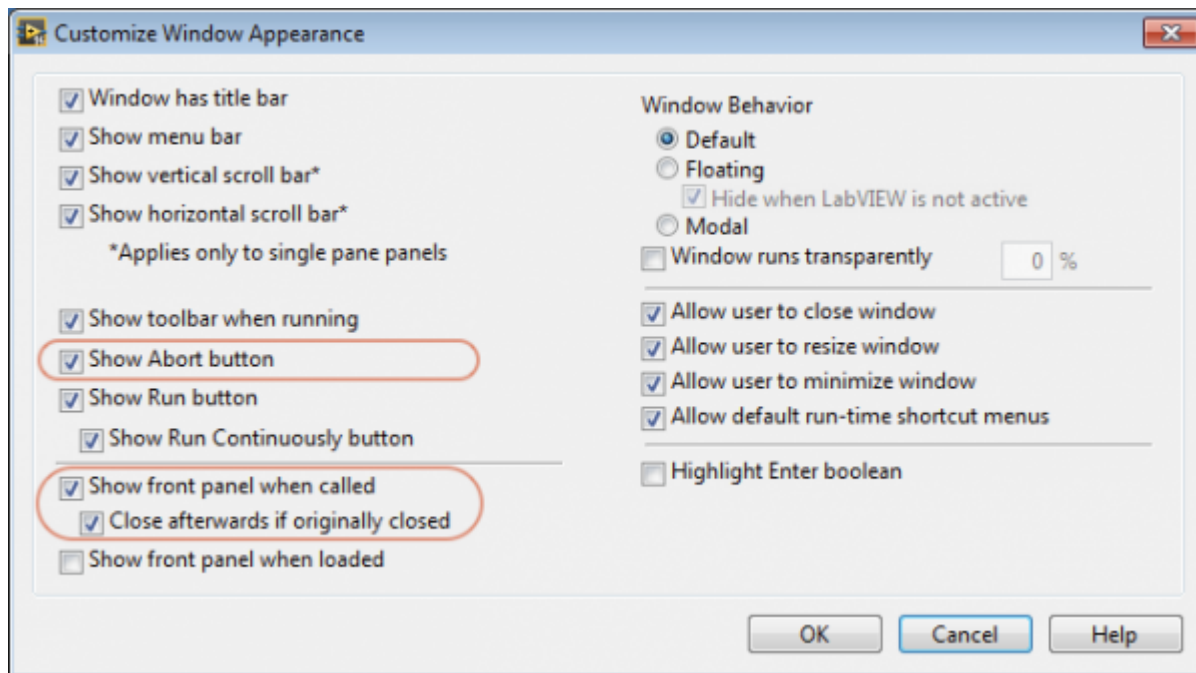


# 04 API Tester

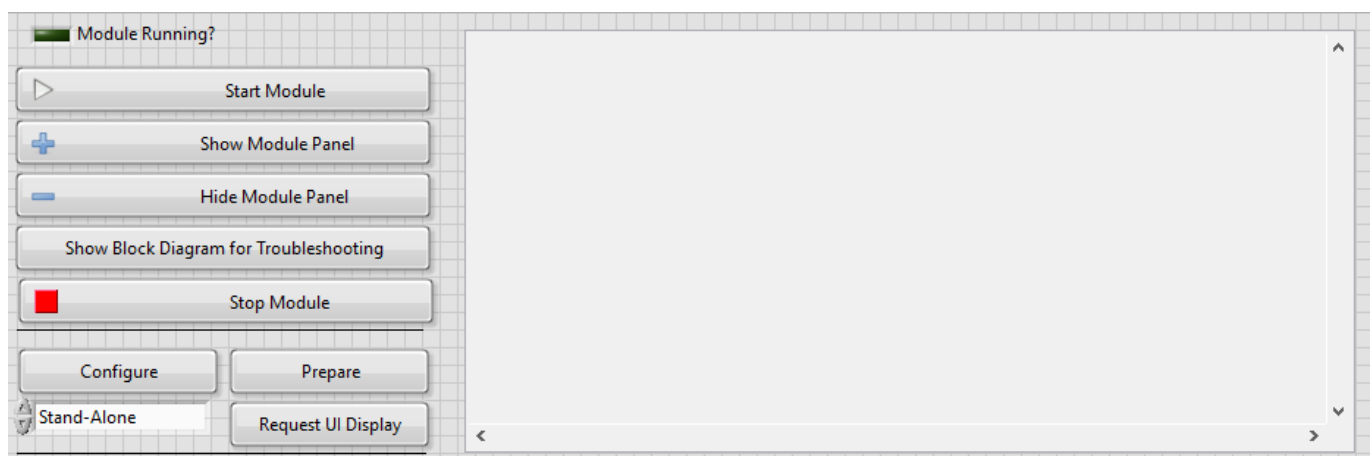
The API Tester of any given HSE DQMH module will come with the following additions to the default DQMH API tester:

## Properties

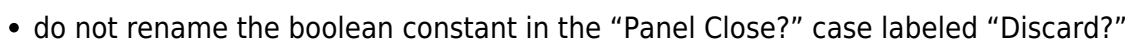
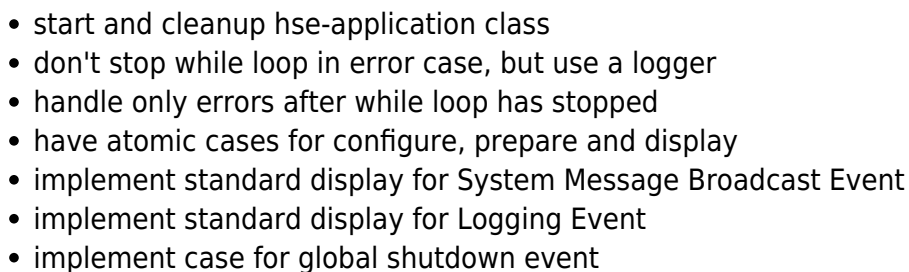


In order to be able to launch the API tester programmatically from our UI Framework, it's necessary to make the VI show its front panel when called and close it afterwards.

## FP

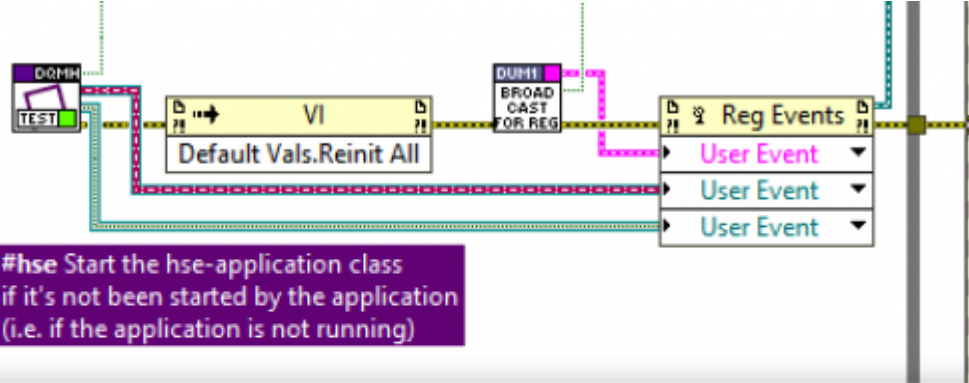


- make good use of space



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functions (eg hse-application, hse-configuration or hse-logger), the API tester needs to initialise the HSE Libraries first.



**#hse Start the hse-application class if it's not been started by the application (i.e. if the application is not running)**

**Context Help**

**hse-dqmh.lvlib:DQMH Tester Prepare hse-appl.vi (4815)**

error in [8] — [3] Started?  
[2] Logging Event  
[1] global shutdown event  
[0] error out

If the hse-application class is not running, queries the user for the path of the containing application and instantiates the hse-appl class. Returns if it did load the class.

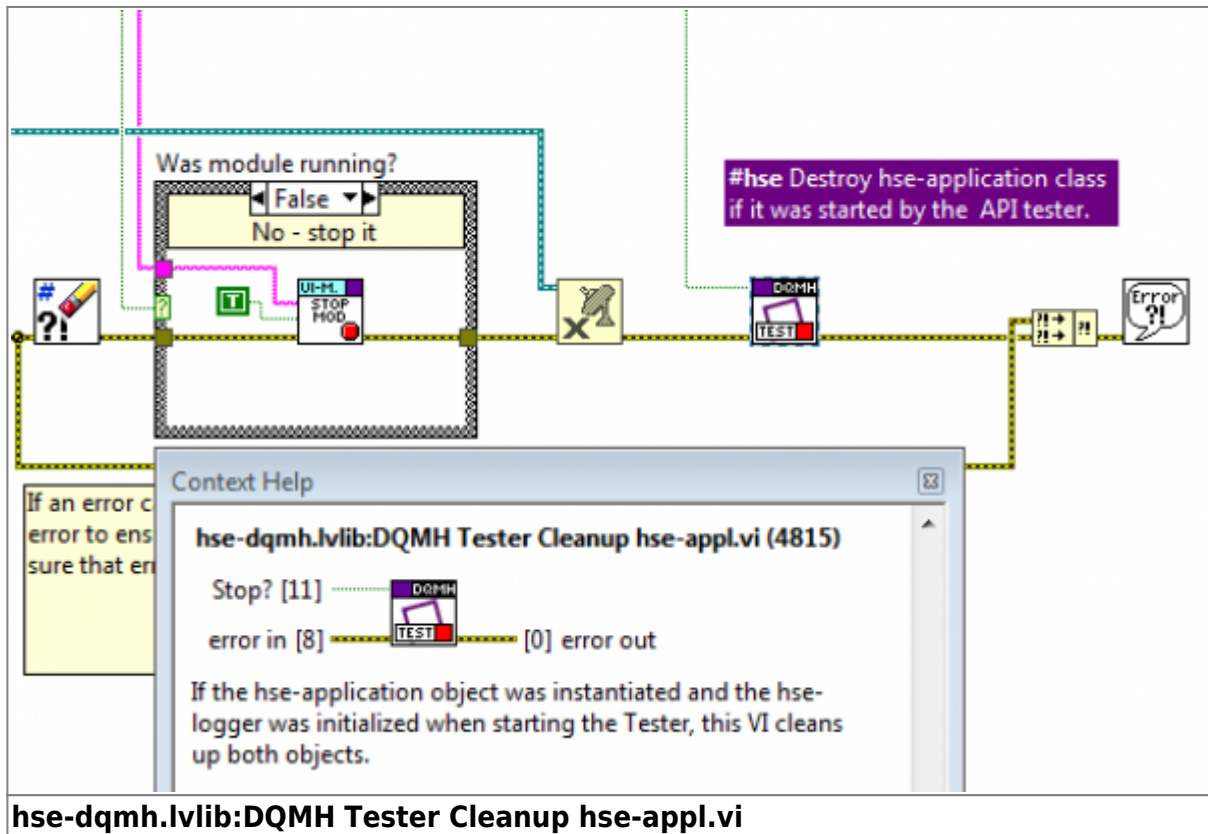
HSE projects follow this folder structure:

- /APP-NAME\_Config ..... Configuration Files
- /APP-NAME\_Data ..... Measured and Other Data
- /APP-NAME\_Source ..... LabVIEW Sources
- /APP-NAME ..... Compiled Application

The hse-application:ApplicationInit.VI expects the "APP-NAME\_Source" folder and the "application name", and processes these to automatically find the "\_Config" and "\_Data" directories.

REAL-TIME: As the configuration directory on real-time systems always needs to reside at "C:\<Project Name>\_Config\", and as it tedious (embedded UI) or impossible (no embedded UI) to enter the path, it can be supplied via the optional Real-Time App Name string input.

**hse-dqmh.lvlib:DQMH Tester Prepare hse-appl.vi**



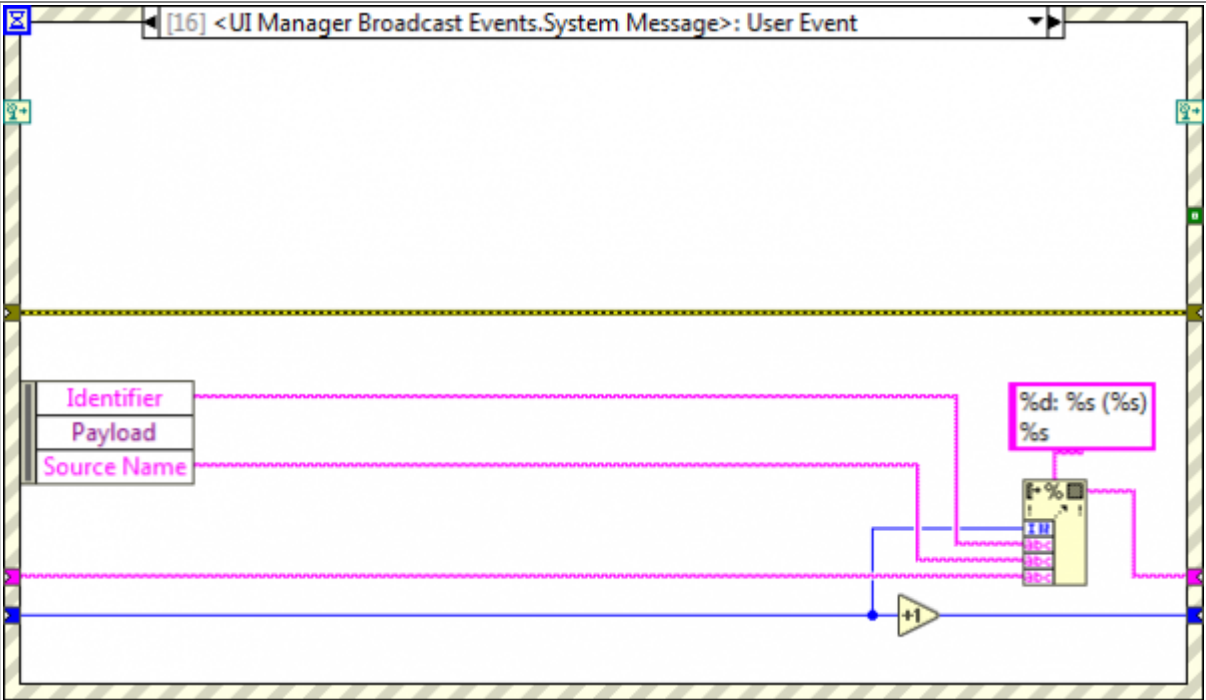
The API Tester will first check if the hse-application object is already in memory (ie the application template is running). If not, then it will try to start an instance itself. In order to do that, it needs to know where the project is stored, so it can deduce other information (app name, config folder location...).



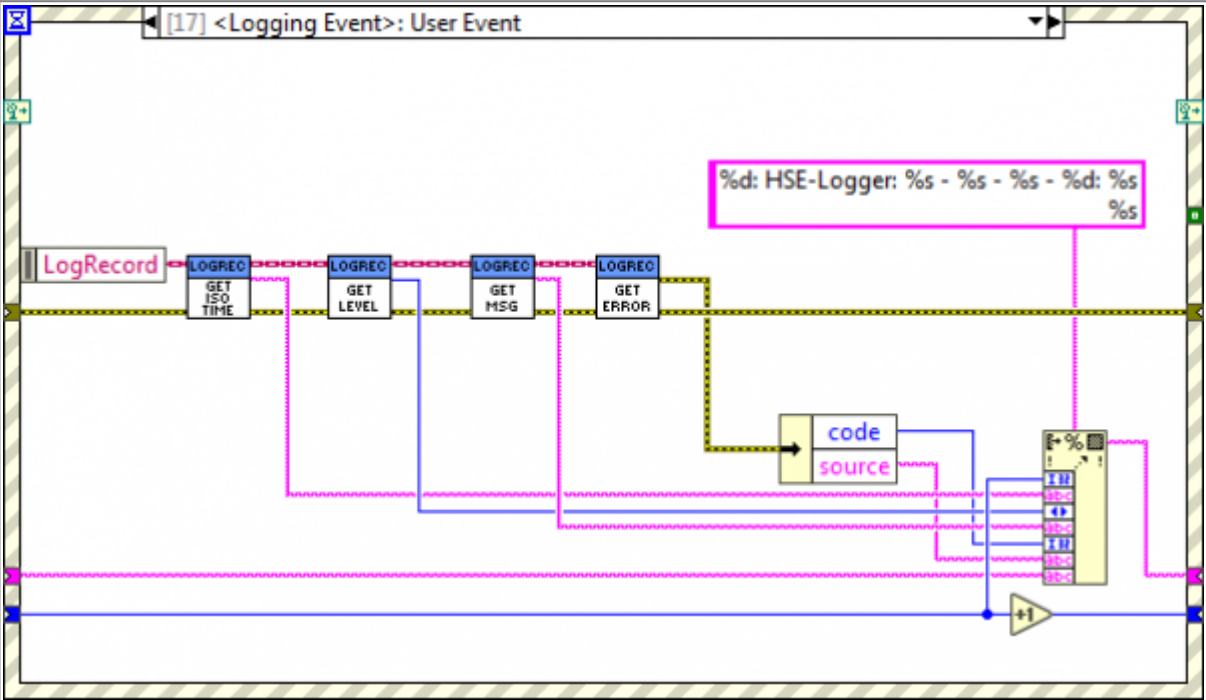
When starting the tester from the development environment, the project location is detected automatically.

When starting from the runtime engine, a dialog will pop up asking the user to “select the folder containing the “hapelsoft-libraries”-based application (i.e. the .lvproj file)”.

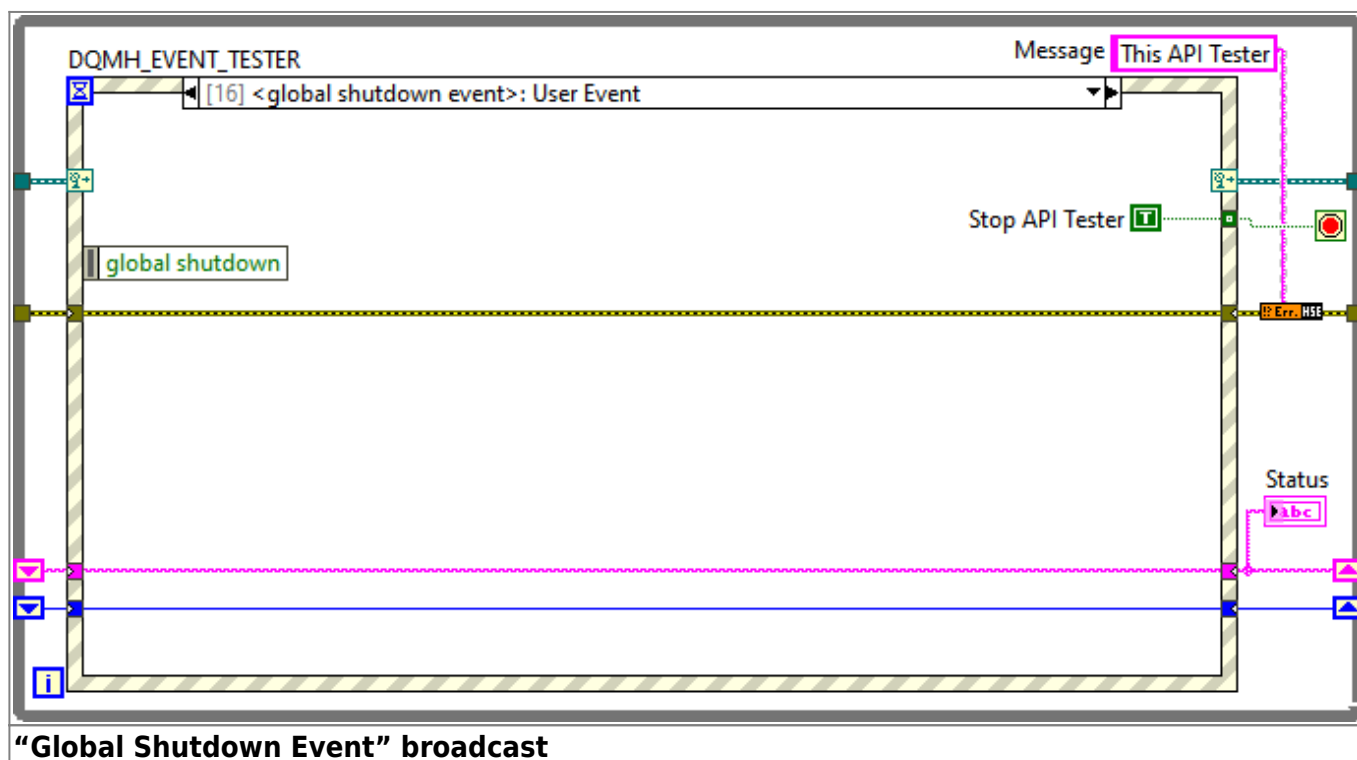
## Broadcasts



“System Message” broadcast



“hse-logger logging event” broadcast



## Requests

- Buttons for calling the "Configure" and "Prepare" events

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