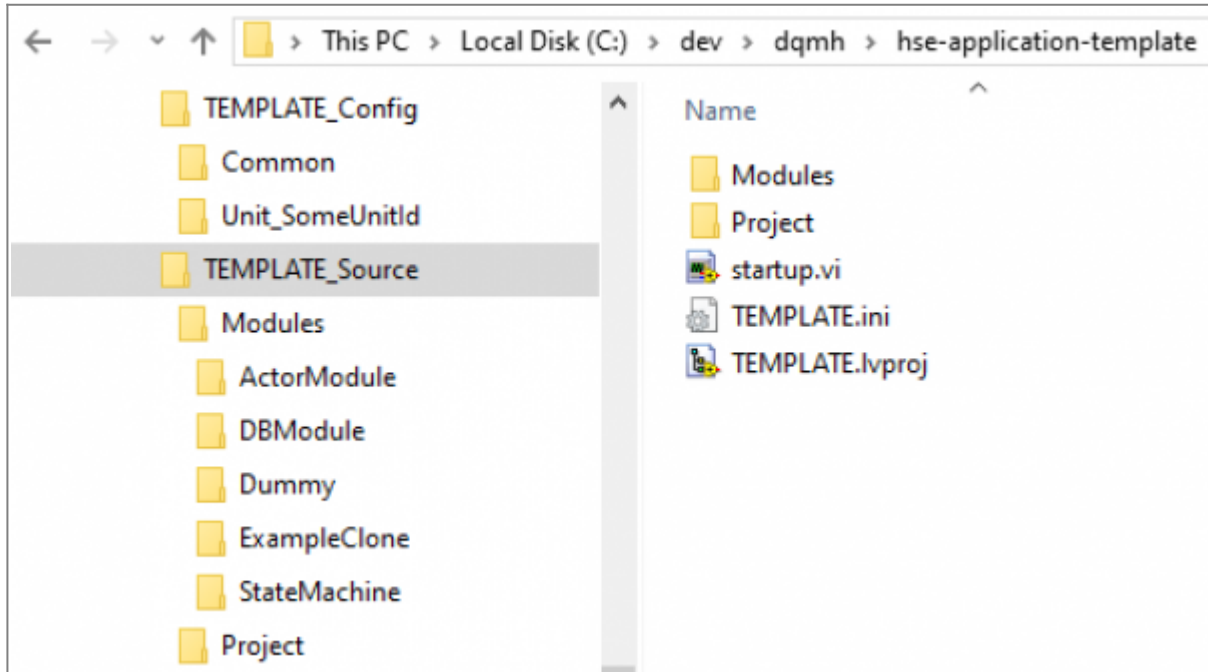


# 11 Project Structure

This page defines the default project structure used by most of our projects. We have also information on our [default repo structure](#) and our [overall software structure](#). Screenshots are included from an example repository for demonstrative purposes.



Throughout this page, we will use TEMPLATE as a placeholder for the actual project's name.

## Basic Structure

|                   |                                  |
|-------------------|----------------------------------|
| /TEMPLATE/        | built LabVIEW application (.exe) |
| /TEMPLATE_Config/ | all configuration data           |
| /TEMPLATE_Data/   | output data (eg measurement)     |
| /TEMPLATE_Source/ | LabVIEW source code (files)      |



For libraries and other non-application code, instead of the four folders shown above, there will only be a single directory named /Source/.

## 'Config' directory

|                    |                                                     |
|--------------------|-----------------------------------------------------|
| /TEMPLATE_Config/  |                                                     |
| /Common            | common config files                                 |
| /Unit_xyz          | one set of configuration data                       |
| /Unit_abc          | another set of configuration data                   |
| config.ini         | defines which unit directory to use (not under SCC) |
| config.ini.default | default file (checked into SCC)                     |

Contains all configuration data that's needed by the application.

## 'Data' directory

```
/TEMPLATE_Data/  
    template-application.log
```

Contains the application's log file. Serves as a container for all sorts of files created by the application, like measurements, reports, etc.

## 'Source' directory

|                        |                                                 |
|------------------------|-------------------------------------------------|
| /TEMPLATE_Source/      |                                                 |
| /_Examples             | Example code (optional)                         |
| <%...%> Example.vi     | File naming scheme                              |
| /_VI Templates         | Examples for the palettes ("Place VI Contents") |
| <%S...%> Quickstart.vi | File naming scheme for simple example templates |
| /Modules/              |                                                 |
| /Project/              |                                                 |
| TEMPLATE.lvproj        |                                                 |
| TEMPLATE_Main.vi       | Main VI for Real-Time applications              |
| startup.vi             | Main VI for Windows applications                |

Contains the following directories and files:

## 'Framework' directory

Starting from [HSE Application Template v3.0.0](#) 'Framework' directory does not exist anymore within the application template. Generic modules are now part of [HSE Core - Framework repository](#) and are

installed with [hse-application-template.vipc](#).



More information on framework modules: [Application Template](#)

## 'Libraries' directory

Starting from [HSE Application Template v3.0.0](#) 'Libraries' directory does not exist anymore within the application template. Libraries are now part of [HSE Core - Libraries repository](#) and are installed with [hse-application-template.vipc](#).



More information on our libraries: [HSE-Libraries](#)

## 'Modules' directory

```
/TEMPLATE_Source/  
  /Modules/  
    /ActorModule/  
    /DBModule/  
    /Dummy/  
    /ExampleClone/  
    /StateMachine/
```

Contains DQMH modules utilised by the project.



More information on DQMH can be found in our knowledge base:  
[Delacor Queued Message Handler](#)

## 'Project' directory

```
/TEMPLATE_Source/  
  /Project/  
    /Project.lvlib  
    /PROJECT_ApplicationVersion--constant.vi  
    /PROJECT_InitLogging.vi  
    /PROJECT_Layout-VI.vi  
    /PROJECT_Name--constant.vi  
    /PROJECT_RunTimeMenu.rtm  
    /PROJECT_SplashScreen.vi
```

```
/PROJECT_StartupSteps.ctl  
/PROJECT_UserCredentials.vi
```

Contains all project-specific files that are not part of a DQMH module or a library. The content of this directory varies from project to project.

## 'TEMPLATE.lvproj'

LabVIEW project file, containing the VIs in XML format.

## Main VI

Either `startup.vi` (Windows applications) or `TEMPLATE_Main.vi` (Real-Time applications).

## Actual Source Code



The source code for the project shown can be found at  
<https://code.hampel-soft.com/open-source/dqmh/hse-application-template>

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