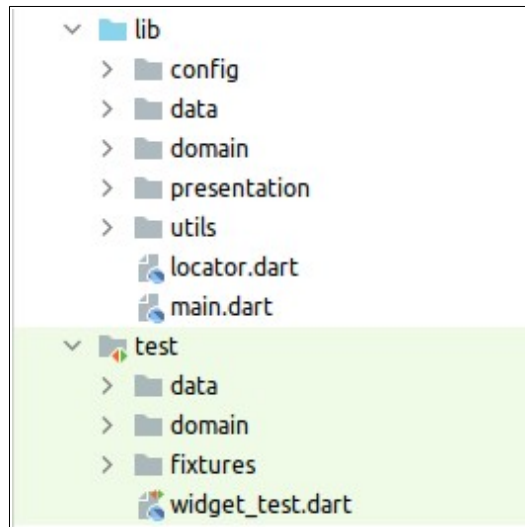
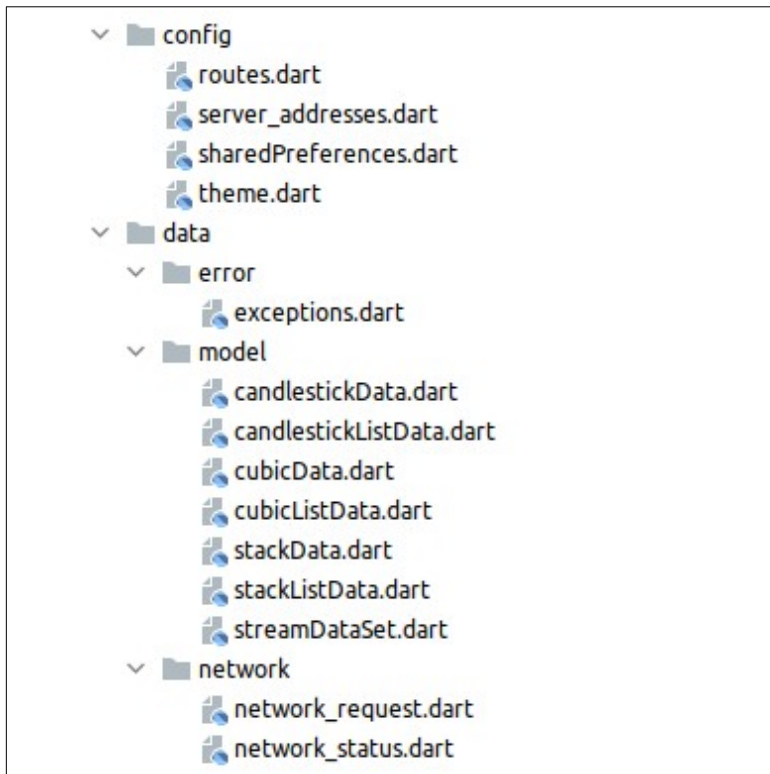


# Document



In this project I've separated the responsibilities and used technologies to increase decoupling and also make the project testable and scalable.

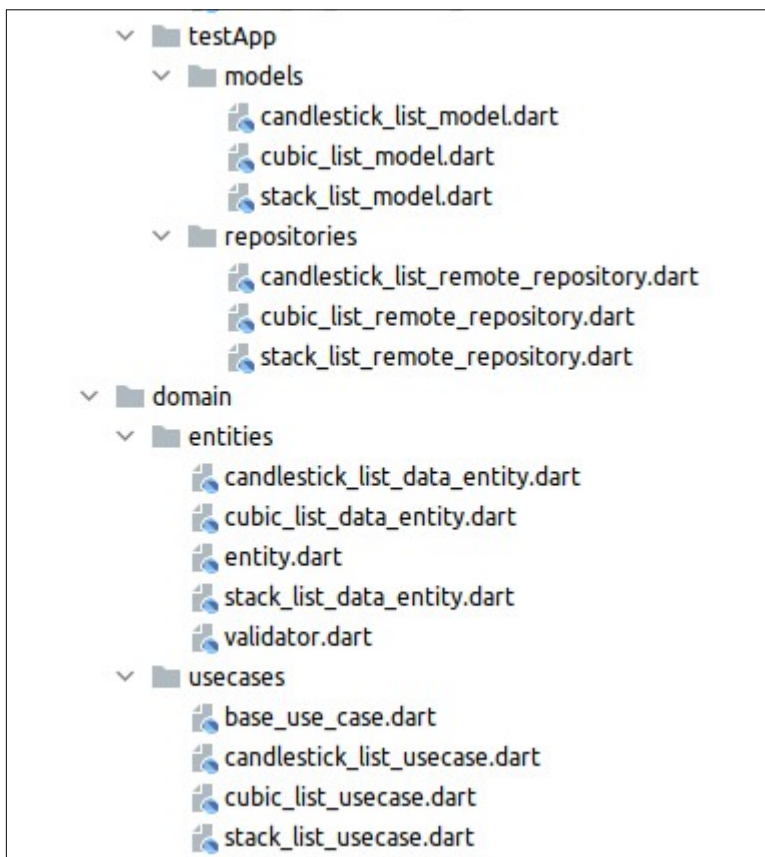
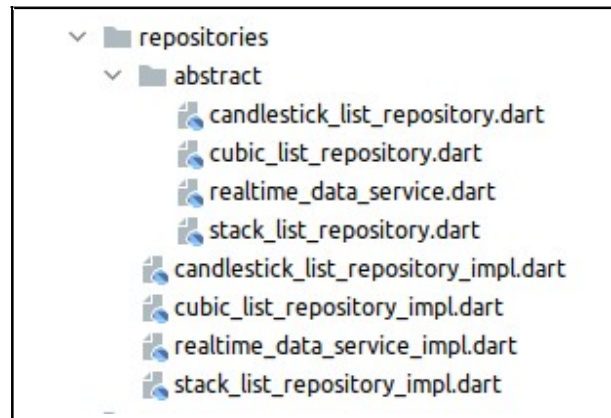
I've tried to separate the presentation from business logic and the architecture of the project makes it easy to maintain the code and develop it and although it was a sample project, its structure really ready to be extended.



The configuration of the project includes the server addresses and colors and provides the routes of project parts and also implements the communication by sharedPreferences.

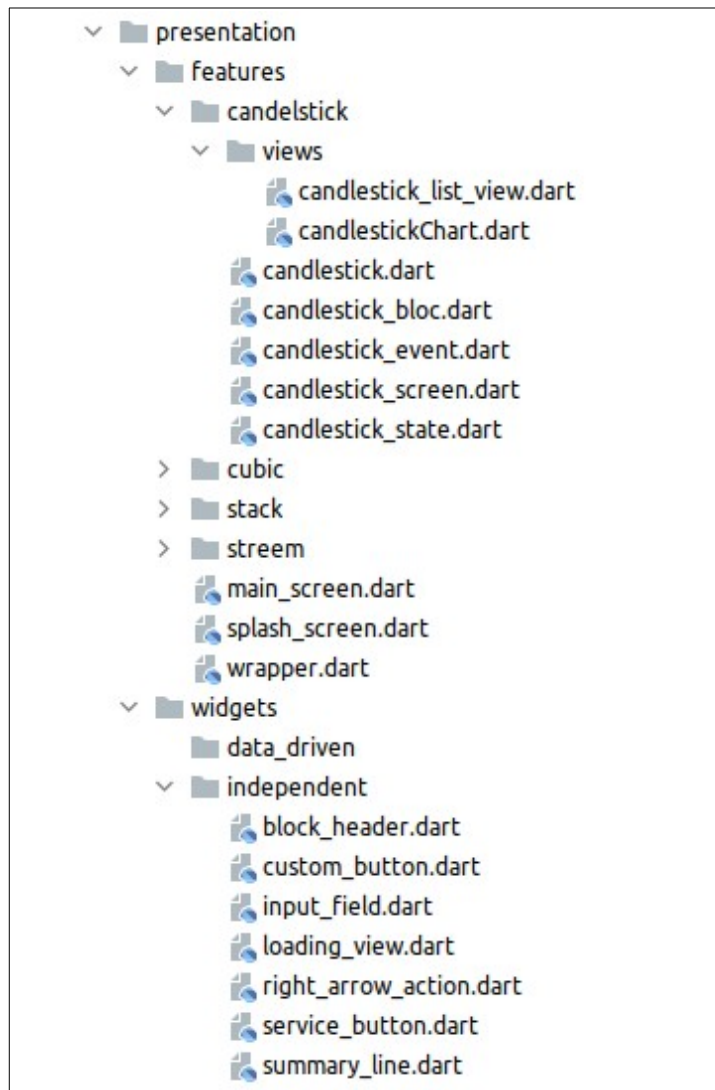
Data folder includes exception info and the model of data that is used in API calls. The data structure is defined in such a way that it can accept data in Json format. The responsibilities of network request including different types of requests and preparing the data to call api are placed in the network folder.

The other part of data folder is repositories that is used to abstract and implement the important part of preparing server requests and also checking the network connection.



Model files are responsible for mapping the received Json data put each data in its place.

Remote repositories that are placed in testApp folder, play the key role in API calls and each of them is the heart of network request for the related network process.



The main parts of UI are placed in Presentation folder that includes views and BloC related processes and states management.

Each screen of this project has a folder in presentation and affected regularly by the lifecycle that is generated by BloC features.

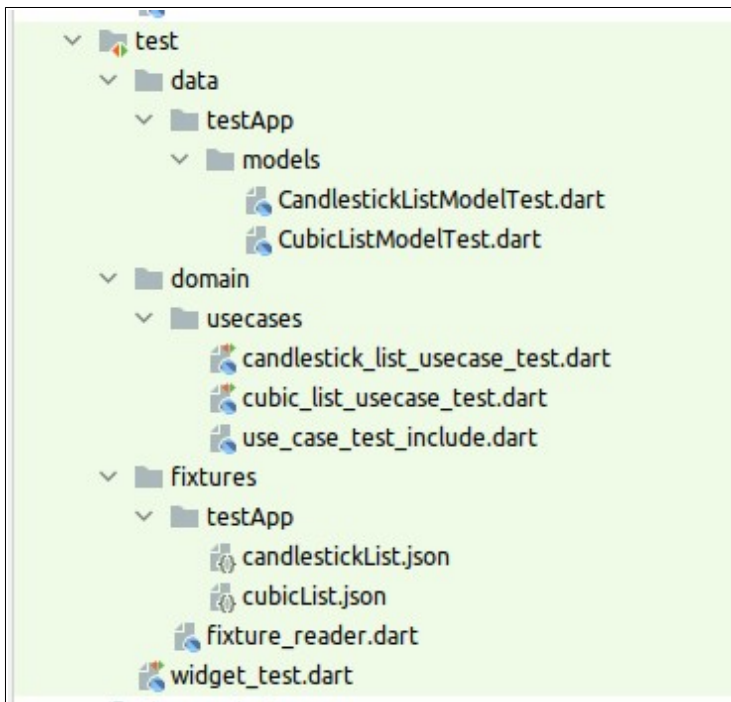
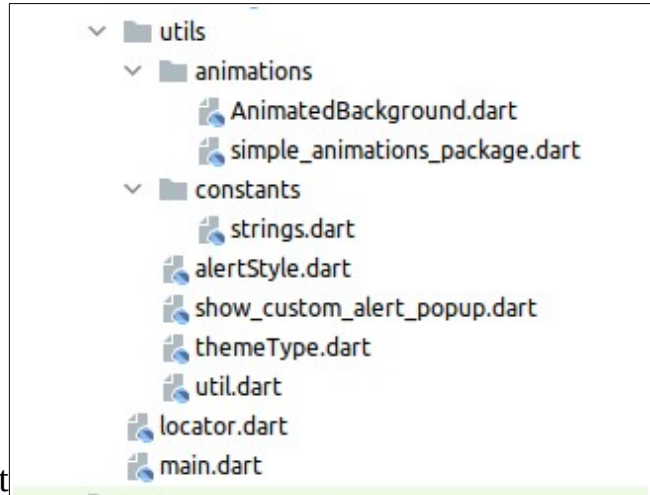
MainScreen contains bottomNavigator and the user can access to all screens by using of it.

Widgets folder contains the data driven and independent widgets that are used in different parts of the project.

Utils includes animations, Strings and generally constants which are using during scaffolds, widgets and functions through the project.

I've used GetIt as a service locator.

I'm using it because as our App grows, we will need to put the app's logic in classes that are separated from Widgets. Keeping our widgets from having direct dependencies makes the code better organized and easier to test and maintain.



And finally I wrote Unit Tests on models and usecases which are used in candlestick and cubic charts.

To do this I employed Flutter\_test, Mockito and some mocked data as the fixture.