**FX Web Dashboard: Design Document**

The application is written as a simple web application served by backend servlets to front end jsp. The application is hosted on an embedded jetty for standalone run.

Lib dependencies

* The project uses jetty jars for standalone mode, GSON for json data type and the FXProfitReportEngine java jar for re-use of csv access methods.
* All these jars are included as a fat jar in the dependency-all jar.

GUI: Dashboard

* The dashboard provides various charts with their data extracted from the backend csv file. Everytime a filter/reset is called, the data will be refreshed from server side to ensure real-time updating.
* The charts are designed using jquery HighCharts with json data source feeding into them.
* The data is served via the backend servlet which can be replaced with an external REST API if the GUI application needs to be a pure web project.
* The backend servlet reuses the codes written in FXProfitReportEngine to read the data and parse it for client-side processing.

GUI: Blotter

* The blotter returns the user a table with transaction details based on the user’s input (in this case, based and wanted currency).
* The blotter is designed using jquery dataTable with json data source feeding into it.
* Statistical pivot functions and sortings are performed on client-side whereas filters on currency are performed server-side.