Web Functional UI Framework

* Build **Maven Project** with all the framework dependencies.
* Developed End to End Selenium Web Scenarios in the feature file.
* Implemented **TestNG** Runner to run the framework.
* Implemented the **Single responsibility principle** to distribute the implementation into multiple-step definitions.
* Implemented **Dependency Injection** to share the data between the steps files.
* Implemented the **Page Object Pattern** to drive the locators and method from page files.
* Implemented **Factory Design Pattern** by writing PageObjectManagerClass to create objects of all PO classes.
* Web Driver Manager has been configured and distributed across the files in the framework, no need for .exe driver file.
* Has run Cucumber Scenarios in **Parallel Mode** using Cucumber TestNG Runner.
* Build **Test utilities** for reusable Selenium methods.
* Implemented **Cucumber Hooks** to capture Screenshots of test failures.
* Implemented **Cucumber Tags** to run selected tests in the framework.
* **Parametrizing** the test data to run the Scenarios with multiple data sets.
* Created HTML and **Extent Spark Reports** to run Cucumber Selenium Tests.
* Running tests in **parallel mode** and generating Extent reports with screenshots attached for failed scenarios.
* For the Failed Test Case, it will take the Snapshot and embedded that Snapshot in the Report also.
* Implemented around more than **30** functions which can be usable for any type of website or web application.
* One can just create the Feature File and write & call the steps in the Feature File by putting the locators etc.