This project was made using Eclipse 4.10.0 IDE and build with Maven using archetype.

For the web UI, Vaadin framework was used which provides libraries for creating UI elements and also handles communication between the servlet and the browser. For that reason the GroupID: ‘com.vaadin’ the ArtifactID: ‘vaadin-archetype-application’ and version: ‘8.0.0’ was used and needs to be added to your IDE.

When the project is loaded, configure the debugger in order to select Maven Build. Name it ‘Run on Jetty’ with the goal ‘jetty:run’ and make sure the source is the java project. Eclipse Jetty is a Java HTTP (Web) server and Java Servlet container that allows us to access the web-app via ‘[localhost:8080](http://localhost:8080)’.

After hopefully debugging with no errors the Jetty Server will start and the web-app will be accessible via the above link.

Included in the project folder you will find a unit test using Junit framework, which is the PrimesTest.java. This test is a pass but by modifying the method that checks if a number is a prime or the test itself that will change. Also, you will find 2 UI test cases using Selenium IDE and Selenium WebDriver. One is failing due to a pop-up window overlap and the other is passing because enough time was given in order for one pop-up to disappear before triggering the next one.