

# Boot Camp PROJECT: UI AUTOMATION

**Introduction:** Each team has given particular website to automate it

**Approach:** You have to developed a testing framework based on this application to test the major functionality.

In below I decried the Tools, Technologies that you/team have to perform

## Framework design:

The design or approach must be a Data Driven Framework following Page Object Model (POM) pattern

1. **Data Driven test**
  1. TestNG Data Provider
  2. Difference sets of data by XLS Sheet
2. Page Factory
3. Environmental Variables
4. Behavior Driven Development (BDD) FrameWork.
5. **Report Generating**
  1. Log4j
  2. Extent Report
  3. TestNG Report
  4. HTML Report
  5. XML report
  6. JSON Report
6. **Using SelfDepending Functionality**
  1. ReTryAnalyzer
  2. Transformation
  3. Web EventListener

## TYPE OF TESTING MUST BE PERFORMED:

1. Smock/Sanity Test
2. **Complete Regression Test**
3. **UAT** Test including:
  1. Features file
  2. Test Runner
  3. Step Definition
  4. Scenario Outlines

**PROGRAMMING CONCEPT:** Concept of JAVA OOP as much as possible including

1. Encapsulation
2. Polymorphism
3. Abstractions
4. Inheritance. Including :
  1. OverLoad
  2. OverRide

**WEB BROWSER:** Difference type of Browser Driver including

1. Chrome
2. Firefox
3. Safari

**DEPENDENCIES:** Dependency you have to use :

1. Selenium
2. Testing
3. Junit
4. Apache POI
5. POI-OOXML
6. POI-OOXML SCHEMAS
7. POI OPENXML4J
8. OOXML Schemas
9. Cucumber-Core
10. Cucumber-java
11. Cucumber-JVM-Deps
12. Cucumber Junit
13. Cucumber Extent Rreports
14. Common Io
15. Log4J

**ENVIRONMENT:**

1. MAC
2. Windows