**Rest API Automation Framework from Scratch**

* **Create Maven project with Cucumber and Rest Assured dependencies**
  + Select Maven Project
  + Select Artifact Id as “maven-archetype-quickstart”
  + Add Group Id: bdd
  + Add Artifact Id: hemsecri.api.cucumber
  + Add following **dependencies**:
    - cucumber-java
    - cucumber-junit
    - rest-assured
    - jackson-databind (for serialization)
* **Define Project structure with Cucumber Framework setup**
  + Create “features” package under src/test/java
  + Create “stepDefinitions” package under src/test/java
* **Create Feature file with the test case you want to automate.**
  + Create feature to check Login with valid login scenario
  + Create “cucumber.Options” packageunder src/test/java
    - Add TestRunner.java class
* **Implement smart step definition files with supported code**
* **Build Utils file to define all reusable request and response specifications**
* **Build Pojo classes for serializing and Deserializing Json payload**
* **Implement logging into framework to log request and response details**
* **Develop End to End functionality test with all Validations and Assertions**
* **Define Global properties and drive all the global variables from Properties files**
* **Define Enum class with constants to centralize all resources details**
* **Implement Data driven mechanism to drive data dynamically from feature files.**
* **Implement parameterizations to run test with multiple data sets using Cucumber Example Keyword**
* **Add more test and implement tagging mechanism to run selected test from test runner file**
* **Implement Pre and Post conditions for tests with Cucumber Hooks**
* **Execute complete Framework from maven commands**
* **Implement Maven driven global value into test for dynamic execution**
* **Generate reports for test execution results**
* **Integrate the framework into Jenkins CI/CD tool**
* **Implement parameterized Jenkins job to choose the global value at run.**