**Development of Hybrid Driven Framework**

**https://tutorialsninja.com/demo/**

1. **Test Case: Account Registration**
   1. Create a BasePage under **“pageObjects”** which includes only constructor. This will be invoked by every Page Object Class constructor (Re-usability)
   2. Create Page Object Classes for Homepage, RegistrationPage under PageObjects package. These classes extend from BasePage
   3. Create AccountRegistrationTest under **“testCases”**
   4. Create BaseClass under **testBase** package and copy re-usable methods.
   5. Create re-usable methods to generate random numbers and strings in BaseClass
2. **Adding logs to test cases**

2.1 Add log4j2.xml file under **src/test/resources.**

2.2 Update BaseClass

2.3 Add log statements to **AccountRegistrationTest.**

1. **Cross Browsers**
   1. Create testing.xml file to run Test Cases and parameterize browser name and OS to BaseClass setup() method.
   2. Update BaseClass setup() method, launch browser based on conditions.
   3. Maintain separate xml to run tests multiple browsers parallely.

**4. Read Common Values from config.properties file**

4.1 Add config.properties file under src/test/resources

4.2 Update BaseClass 🡪 setup() method, add script to load config.properties file.

**5. Login Test Case**

5.1 Create and update page object classes, LoginPage, MyAccountPage – new classes HomePage – update by adding login link element.

5.2 Create LoginTest

5.3 Add entry testing.xml

**6. Data Driven Login Test**

6.1 Prepare test data in Excel, place the excel file inside the **testData** folder.

6.2 Create ExcelUtility class under **utilities** package.

6.3 Update Page Object class MyAccountPage, add logout link element.

6.4 Create DataProviders class in utilities package to maintain data providers for data driven tests.

6.5 Create LoginDataDrivenTest under **testCases** package

6.6 Add an entry in testing.xml file.

**7. Grouping Tests**

7.1 Add all test cases into specific group (sanity, regression, master etc)

7.2 Also add BaseClass methods setup() & teardown() to all groups.

7.3 Create separate testing.xml file (grouping.xml) to run groups and include groups which we want to execute.