***Pre-requisites:***

JDK version 1.6 or higher, Eclipse (Required JARs are referenced in the build path internally)

***About the framework:***

1. **Data** from a Test data sheet in excel format(.xlsx) in the <ProjectPath>->TestData->TestData.xlsx
2. **Test cases** are currently JUnit files under the package roofandFloorTestCases. The framework can accommodate more than one file, and we can organise this by functionality
3. **Objects** are defined in an Excel sheet in the <ProjectPath>->Objects->ORSheet.xlsx
4. **Report** / Step Log is in notepad format under <ProjectPath>->StepLog->StepLog <TimeStamp>.txt . This can be modified to a different format later.
5. **Supporting Files package** contains
   1. Business Functions – Contains business-logic functions (application specific)
   2. Utility functions -Contains s screen-level actions (non-application specific)
   3. FileUtility – Contains functions interacting with IO files. (Excel/notepad)
   4. Reporting-related functions
   5. Variables (for global usage)
6. **All the necessary JARS** are in the <ProjectPath>->jars and referenced

***How to Run:***

1. Import the project into Eclipse
2. Open RoofandFloorTestCases -> SearchFunctionality JUnit class file.
3. Run the JUnit file
4. Go to the StepLog folder for report logs. For every run, there will be a separate report.

***More work required on:***

1. **Reporting:** 
   1. There needs to be more flexibility provided here in terms of options for reports. Can include Excel and HTML
   2. Need to include screenshots for failure
   3. Can discuss options about a summary report.
2. **Test-driving engine:**
   1. Currently, I am using JUnit to drive the whole script. This entire approach can be changed and a hand-crafted driver script can be written with extensive reporting.
3. **Miscellaneous:** 
   1. More wrappers in the driver/JUnit file.
   2. Multi-browser capability
   3. A configuration sheet to give common details
   4. Currently, XPath is the only locator being used, this can be extended to any locator by a very small code change
   5. Need to create more functions to accommodate all the required scenarios. Currently, I have created only the bare basic required functions in both Business and Utility-level.