Design:-

Common Browser commands  
type()  
click()  
select()  
hover()  
acceptAlert()  
.  
.  
.  
.  
So on..!

Page 1

Page 2

Page n

Common to

**Browser Actions**

Basically there are 2 types of actions can be performed in Web application automation.

* Browser actions
  + Example: type, click & select.

These Browser actions are applicable for all the web applications since these are the only actions can be performed in all the web applications.

* Application actions
  + Example: typeUserID & typePassword.

These Application actions are applicable only to their respective applications since these actions bound by their application specific page objects. These applications actions are simply end up by calling methods of the Browser actions with their application specific Page objects.

**Objective of test script design:-**

* Test script should illustrate the real time interaction of the system and a tester.
* Script should not miss any scenarios, preconditions and even low level checks.
* Script should confirm all the pages before executing the test steps by verifying the presence of respective page specific elements.
* Unhandled exceptions should not occur during execution.
* Detailed graphical report should be provided for all the test executions.
* Detailed log report should also be generated for all the test executions to track the errors occurred during run time.
* Locators of Page objects should be easily maintainable if the locators got changed.

Framework implementation has included all the above objectives.

1. Each Page objects & Required Page actions are clearly defined as Web element objects & Methods in each page classes. [Refer: Design details.xlsx >> Home page, Search Page]
2. Application interaction is being performed by calling the respective Action methods defined in page classes from the Test case classes.
3. Each page class has a method to confirm the page by asserting some of the page specific elements which can be invoked before calling other action methods from the page classes. Refer: [Refer: Design details.xlsx >> Home page, Search Page]
4. All the core methods present in Common Method class are designed in such a way to overcome the unexpected runtime failures. Script will continue the execution though any failure occurred at run time.
5. Graphical report & Log report will be generated for each test executions.
   1. Check “ATU Reports” folder in the Project directory after each test executions for GUI reports.
   2. Check “Log” folder in the Project directory after each test executions for Log reports.