1. Definitions
   1. Data Provider  
      Provides test-specific information regarding the execution of the test to the test driver:
      1. Spreadsheet name in resource\Test Cases folder.
      2. Worksheet name in the spreadsheet.
      3. Test result output spreadsheet. Will be created in the resource\Test Report folder.
      4. Browser (Firefox, IE, Firefox, Safari Opera); the first browser in any data test case will be used for all test cases.
      5. Firefox Profile name (must exist on machine executing the test); default = default.
      6. Default wait value in seconds. This is the amount of time the system will wait for a keyword to execute. For instance, keyword *WaitVisible* will wait for the specified screen element in the script to display, but if it hasn’t displayed by the default wait value parameter, the script will fail.
      7. Application specific properties file.
      8. Number of times to execute sheet; 0=skip. Default is 1.
      9. Output to .csv (false=no, true=yes). If set to true, a .csv file is created in the resource\Test Report folder with the name *Spreadsheet*\_*Worksheet*.csv
      10. Output to video (false=no, true=yes). If set to true, a video is created in the resource\Test Report folder with the format *Spreadsheet\_Worksheet\_DateTimestamp*.avi.
   2. Driver  
      Application-specific Java program that executes the automated test. This associates the data provider to the automation software.
   3. Test Case  
      An Excel Spreadsheet that contains one or more worksheets. This spreadsheet is used as a keyword-driven script to execute the various test steps for the test
   4. Test Property  
      A Java properties file that contains a definition of the UI-specific screen elements and the type of the screen elements. Valid screen element types are:
      1. xpath: uses the xpath to the screen element
      2. id: uses the unique id for the screen element
      3. link: Uses the link text value of an imbedded link on the page
      4. css: Locates the element using its CSS definition
      5. classname: Locates the element using its class name
      6. tagname: Locates the element using its html tag name
      7. name: Locates the element using its name html attribute
      8. partiallink: Uses part of the link text value of an embedded link on the page. For example, a link that has the text “Register Now” can be accessed by a partial link text of “Register” or “Now” or even “r N”.
   5. Test Suite  
      The executable .xml file that contains the names of the Java Driver(s) that are to be executed as part of the test. Also defines the name of the Java class that produces the .pdf output for the test suite.
2. Creating a new Application Test Suite
   1. Create one or more test properties files.
   2. Create a test case spreadsheet with one or more worksheets
   3. Create a data provider for the application, with one row per worksheet to be tested
   4. Create a driver, which points the automation tool to the data provider
   5. Create a test suite, which runs the driver defined in the .xml document