Test Design Document

Authors

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Summary

This framework performs automated testing for Ounass website's various test cases. It is a prototype.

Each component of the system is tested in the test case directory. Each test case runs independently. It has been ensured that interdependent items are exported separately into user defined keywords for reusability and code cleanliness. All variables and keywords have been stored separately into a *resource.robot* file. The resources file is then imported into test cases in the settings portion.

Currently all keywords and variables are stored in one file (resource.robot). All the test cases are stored in one file(TestSuite.robot), however, in the future iterations both these will be segregated further to improve upon code readability and cleanliness.

Keywords have been named appropriately so that they may be understandable easily. Each test case includes a documentation tag to specify what criteria is being tested.

Currently arabic language test cases support is limited in the framework. Only one test case is covered. In the coming iterations that too will be expanded upon.

False failures

Explicit waits are not used in abundance in the framework. If at any point, the test case fails due to timeouts it is due to the internet connectivity issues. Slow internet connection results in this false failure. This issue is currently under development and will be addressed in the future release.

Test Coverage

Test-Coverage in the RobotFrameworkAutomation (*Ounass Automation Framework Prototype*)

The framework provides coverage over the following modules/test cases:
- New User registration
  - Arabic
  - English
- Verify email is disabled for editing post registration
  - Arabic
  - English
- Add phone no post registration
  - Arabic
  - English
- Login Via Facebook
  - English
- Verify email is disabled for editing post login
  - English
- Add items to bag
  - English
- Proceed to checkout
  - English
- Product Listing for selected designer
  - English

After completion of test cases a summarised report is generated which tracks all the steps performed. In case of failures a screenshot is also taken and saved.

Coverage could be improved

Currently coverage regarding arabic language based test cases is very limited. In the coming iteration that will be addressed along with other milestones.
High profile milestones include:
- Arabic modules coverage.
- Dockerization
- Jenkins

Technology Used

This framework has been developed while making use of Robot Framework, Pycharm and chromedriver as webdriver. For version control GitHub has been used.

Build Setup And Requirements

The framework requires certain libraries and drivers to be present for it to work. These dependencies have been listed below:
- Python
- RobotFramework
- RobotFramework-SeleniumLibrary
- Chromedriver (added to system path)

These libraries can be installed simply via command line. (pip3 install RobotFramework)

The code base runs via a simple command of the format: robot BaseFolder/RobotFileName.

For Example: robot TestCases/TestSuite.robot