Test Cases

Selenium was used as a framework for the automation of the test cases.

To run the test cases, use java -jar TestGurukula.jar. If this doesn’t work, please import the project in Eclipse and run class Main. An excel file named “Results.xlsx” containing the results, will be created at location “C:\Users\localuser\Documents”.

The class “Constants” contains all the variables used for logging in, creating branches and staffs, etc.

The class “ReusableAcctions” contains methods that are used in the other classes. By using methods from this class other test cases can be created easily.

The flow of the tests is:

1. Create the excel file to store the results of the steps from each test case
2. The login part of the application is tested: login only with user name, login only with password, login with wrong user name and password, login with good user but wrong password, login with wrong user and good password, login and select “Remember me” then close browser and open application again to see if user is still logged in.
3. Change password is tested: what characters can be used in password (special, numbers, upper case), the length of the password is tested with a 4-letter password and over 50-letter password, a different confirmation password is entered and see if it can be saved.
4. Register user is tested: add a new user, what characters can be used in user name, email and password, to be more exact special characters, numbers, upper case. Also, how many and how few characters can be used is tested with a 4-letter and a 50-letter string. This check is done individually for each field (User name, email and password). For password is check if a different confirmation password that password can be saved.
5. Account information is tested: the displayed information in account information page is checked, changing account information, changing to original information, individually for each of the fields (first name, last name, email) the type of characters allowed to be used is checked (special, upper case, numbers) and how many or how few character can be used by checking with a 4-letter and a 50-letter word. It is checked it the language can be changed or not.
6. Branch and Staff is tested: by trying individually to add special characters or upper-case character or number or short words (4 letters) or long words (50 letters) to each of the fields Branch name, branch code and staff name. Also, is tested if a warning appears if the fields are left empty.
7. Create Branch and Staff: here a branch and a staff are created and checked that the information is saved correctly.
8. View Branch and Staff: the functionality of the view button for branches and staff is checked by opening the previous created branch and staff and checking the info displayed.
9. Edit Branch and Staff: the functionality of the edit button for branches and staff is checked by changing the name and code of the previous created branch and check that the changes are saved correctly. For staff the name is changed and then is checked if the info is saved correctly and if the name of the assigned branch is checked at the previous step.
10. Delete Branch and Staff: the previous created branch and staff are deleted and checked if they disappear for the list.
11. Query Branch and Staff: here 3 branches and 3 staffs are created with different names and codes. After that there are 4 queries done for branch 3 of them there are going to be return results (the queries are done one for ID, one for Name and one for Code) and one is not (the search is done over an unexisting value), for staff 2 of them are going to return results (the search are done over ID and Staff name) and 2 are not going to return results because they are done over branch name and an unexisting value.