

Project – Test Automation of Banking Project (Group Project)

INFT 1207 –Dr. Sukhwant Sagar

Project Description

This project will put you in a corporate setting. You will be testing a demo banking website. The development team informs that, in the draft version of the banking site, they will implement the following modules for the Manager -

- New Customer
- Edit Customer
- Delete Customer
- New Account
- Edit Account
- Delete Account
- Balance Enquiry
- Mini Statement
- Customized Statement

The project manager has approached you and appointed your team as a Test automation team before finalising to test the nine modules. You have been given test suite file having **test cases for nine modules**. You are required to test these cases to record the actual results and to find out whether test failed or passed. You would be using Selenium Web Driver with python to test this website on any web browser. You are required to create a **testsuite.py file** which will contain a menu driven program to select executing of test cases of one of the webpage of the application by selecting a suitable option.

To add on the description of the project, it has two roles

1. Manager
2. Customer

Your team is to test the above listed nine modules concerning manager role of the bank.

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Description of the modules

Module Name	Applicable Roles	Description
New Customer	Manager	Manager: A manager can add a new customer.
Edit Customer	Manager	Manager: A manager can edit details like address, email, telephone of a customer.
Delete Customer	Manager	A customer can be deleted only if he/she has no active current or saving accounts Manager: A manager can delete a customer.
New Account	Manager	Currently system provides 2 types of accounts <ul style="list-style-type: none"> • Saving • Current A customer can have multiple saving accounts (one in his name, other in a joint name etc). He can have multiple current accounts for different companies he owns. Or he can have a multiple current and saving accounts. Manager: A manager can add a new account for an existing customer.
Edit Account	Manager	Manager: A manager can edit account details for an existing account
Delete Account	Manager	Manager: A manager can delete an account for a customer.
Balance Enquiry	Manager Customer	Customer: A customer can have multiple bank accounts. He can view balance of his accounts only Manager: A manager can view balance of all the customers who come under his supervision
Mini Statement	Manager Customer	A Mini statement will show last 5 transactions of an account Customer: A customer can see mini statement of only his “own” accounts Manager: A manager can see mini statement of any account
Customized Statement	Manager Customer	A customized statement allows you to filter and display transactions in an account based on date, transaction value Customer: A customer can see Customized- statement of only his “own” accounts Manager: A manager can see Customized statement of any account

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Following is a list of module wise fields

Module No.	Module Name	Fields
1.	New Customer	Customer Name, Gender, Date of Birth, Address, City, State, PIN, Mobile Number, Email Id, Submit, Reset
2.	Edit Customer	Customer Id, Submit, Reset Form after submitting Edit Customer: Customer Name (Disabled), Gender (Disabled), Date of Birth (Disabled), Address City, State, PIN, Mobile Number, Email Id, Submit, Reset
3.	Delete Customer	Customer Id, Submit, Reset
4.	New Account	Customer Id, Account Type, Initial deposit, Submit, Reset
5.	Edit Account	Account Number, Submit, Reset Form after submitting Edit Account: Customer Id (Disabled), Account Type (Drop Down - Saving or Current), Balance (Disabled), Submit, Reset
6.	Delete Account	Account Number, Submit, Reset
7.	Balance Enquiry	Account No, Submit, Reset
8.	Mini Statement	Account No, Submit, Reset
9.	Customized Statement	Account No, From Date, To Date, Minimum Transaction Value, Number Of Transaction, Submit, Reset

There are nine modules to be tested and you have been given an excel sheet of test cases. The number of test cases are mentioned below in brackets. Your team as a group must decide who will do what, divide the test cases among yourselves so that everyone gets equal share. You must record this assignment of work in the Project report. Let's say a person has not done his share of work, he will not be given any marks for the execution of the project, and other team members would be penalized 5% deduction in their achieved marks as the expectation is to complete the project by collaborating well.

Module No.	Module Name	Test Cases (120)
1.	New Customer	28
2.	Edit Customer	20
3.	Delete Customer	08
4.	New Account	16
5.	Edit Account	08
6.	Delete Account	08
7.	Balance Enquiry	07

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8.	Mini Statement	08
9.	Customized Statement	17

After you write python codes and using Selenium Web driver for test automation, you will be recording your actual results in the template provided. Rename and submit this file as **INFT 1207 – Group#TestCasesuitesolution**

The tests which failed should be logged into the Bug tracker report for further action by the development team. Template is provided. Use this template and fill in the details as per the columns provided. Submit this file as **INFT 1207 – Group#Bug Tracker Report**

Login Details

Here is a link to the version of the Banking Site that requires testing by your team - <http://demo.guru99.com/V4/> . You need login credentials to access this site. To get access

- Visit - <http://demo.guru99.com/>
- Enter your email id
- Login credentials for the manager is allocated to you & displayed onscreen. Credentials also sent at your email id. You will be shown something like this on the screen:

Access details to demo site.	
User ID :	mngr160860
Password :	pumagEm
This access is valid only for 20 days.	

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Login credentials are only valid for 20 days! So, Hurry and execute your test cases. Find as many bugs as you can. In case it expires after 20 days, your team member can get another.

References

According to the Course outline, you have been given Week 13 to complete this project and to ask any questions during class hours.

The In-class Exercises and Labs done from Week 6 onwards will be leading you to the successful completion of this project. The lecture material will assist you in the process of this project.

In addition, this project's demo website for test automation is taken from <https://www.guru99.com> to give you real working experience for this project.

Project Submission- One submission per group

There are three assignment folders for this project:

1. **Group Project Submission** – Following documents are required to be submitted here:
 - a) This is where you will submit your complete project (source codes) exported as zip. **One submission per group** with the name **INFT 1207 – Group# Project**.
 - b) You will also submit a video recording of working of the project where each member will be describing their work- explaining the approach taken, code

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explanation and execution of their work. If the group figures out that the video recording is going to be extensively big, each member can make their part as one recording. The naming convention

– if one video recording: **INFT 1207 - Group# ProjectRecording. OR**

-If each member makes their contribution video: **INFT 1207 -Group#
Firstname**

- c) The test results exported in html.
 - d) Test case suite (excel sheet) completed with actual results and pass/fail status- **INFT 1207 – Group#TestCasesuitesolution**
 - e) Bug tracker report - **INFT 1207 – Group#Bug Tracker Report**
2. **Group Project Report Submission:** This is **one submission per group** as per the format of the report. Submit the report in pdf format. The report format is available in the description section in DC Connect - Week13/14 content page. The naming convention needs to be **INFT 1207 – Group# Projectreport**
 3. **Peer Evaluation:** This is **individual submission individual submission** where each member of the group will grade every other member of the project. Please see the instructions attached to the description in DC Connect- Week13/14 content page. The naming convention needs to be **INFT 1207 – Group# Firstname**

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Grading Tool

S. No.	Criteria	Marks
1	Followed the naming convention for the entire project	5
2	Test Case Executions (Working Correct Codes in the project)- 0.42 for each test case	50
2.1	New Customer (28)	
2.2	Edit Customer (20)	
2.3	Delete Customer (8)	
2.4	New Account (16)	
2.5	Edit Account (8)	
2.6	Delete Account (8)	
2.7	Balance Enquiry (7)	
2.8	Mini Statement (8)	
2.9	Customized Statement (17)	
3	Test case suite (excel sheet) completed with actual results and pass/fail status in correct form	20
4	The Test results (for all modules) exported in html	10
5	Video Recordings (10 for single combined video OR 2.5 each for individual videos)	10
6	Bug Tracker Report in correct form	5
	Total Marks	100