



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Fall 22-23

Section: A

Software Quality Assurance and Testing

Insurance Management System

A Report submitted By

| SN | Student Name | Student ID |
|----|--------------------------|------------|
| 1 | MD. Mahabub Morshed Ijaz | 20-43434-1 |
| 2 | Bevan Saha | 20-43144-1 |
| 3 | Avijit Saha Apu | 19-39922-1 |

Under the supervision of
Abhijit Bhowmik
Associate Professor & Special Assistant [OSA]
Department of Computer Science
Faculty of Science & Technology
American International University-Bangladesh

Checked By Industry Personnel

Name:

Designation:

Company:

Sign:

Date:

Software Test Plan

for

Insurance Management System

Version 1.0 approved

MD. Mahabub Morshed Ijaz
Bevan Saha
Avijit Saha Apu

American International University-Bangladesh
30th November, 2022

Checked By Industry Personnel

Name:

Designation:

Company:

Sign:

Date:

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Revision History

| Revision | Date | Updated by | Update Comments |
|----------|------------|--------------------------|-----------------|
| 0.1 | 2022.11.30 | MD. Mahabub Morshed Ijaz | First Draft |
| 0.2 | 2022.12.1 | Bevan Saha | Second Draft |
| 0.3 | 2022.12.2 | Avijit Saha Apu | Third Draft |
| 0.4 | 2022.12.4 | MD. Mahabub Morshed Ijaz | Fourth Draft |
| 0.5 | 2022.12.5 | Bevan Saha | Fifth Draft |
| 0.6 | 2022.12.8 | Bevan Saha | Sixth Draft |
| 0.7 | 2022.12.9 | MD. Mahabub Morshed Ijaz | Seventh Draft |
| | | | |
| | | | |

1. TEST PLAN IDENTIFIER:RS-MTP01.3

2. REFERENCES

- Software Engineering Course Slides
- Software Quality and Testing Course Slides

3. INTRODUCTION

Background to the Problem

Insurance has recently gained a lot of popularity all over the world. There are many options available to peoples when it comes to purchasing insurance. Peoples can buy a policy online, through a bank, through an agent. If they visit a bank, the primary issue is where to inquire and how long the process will take. Even if they find the ideal location, the process will be extremely lengthy due to the numerous flaws in this possibility. The bank will not serve them, despite the fact that they purchased the policy. They must complete everything. Sometimes they are unable to obtain accurate information regarding the terms and conditions of insurance. It could have a significant impact in the future.

Solution to the Problem

Our website will provide safest and trusted service for customers when they buy this from us. Our website will also help companies to maintain their work in an organized way and track records. Our website will also save customer's valuable time. For the customers query there will be a chat box, and this query also will get solved by experts of the respective company. Customer can easily renew and cancel their insurance without any delay throw our website. In our website we will provide Whole data get centralized at one place. Customer need not go everywhere he will get all info of all products of all branches at one place.

4. REQUEIREMNT SPECIFICATION

4.1 System Features

Three types of users: 1. Admin
2. Insurance Officer
3. Customer.

Admin User Functionality:

1. Can register to the system.
2. Can Login to the system.

3. Can control their profile information (edit-delete-view etc.)
4. Can Logout to the system.
5. Can verify insurance officer.
6. Can verify customer profiles.
7. Can block an insurance officer.
8. Can block a customer for disobeying certain rules.
9. Can add new insurance.
10. Can remove an insurance.

Priority Level: High

Precondition: Admin must have valid User_Name and Password saved in database.

Suggestion for Admin functionality:

Admin need to add verification system for the customer who buy insurance form his website. When any customer fill up all the requirements for buying insurance then he/she will get a confirmation mail/text from system.

Insurance Officer User Functionality:

1. Can register to the system.
2. Can Login to the system.
3. Can control their profile information (edit-delete-view etc.)
4. Can Logout to the system.
5. Can add insurance.
6. Can cancel insurance.
7. Can verify customer profiles.
8. Can remove a customer.
9. Can block a customer for disobeying certain rules.
10. Can renew insurance.
11. Can search customer details etc.

Priority Level: High

Precondition: Insurance Officer must have valid User_Name and Password saved in database.

Suggestion for Insurance Officer functionality:

After getting approval from admin all the customer data transfer to the insurance officer then officer check all the information submitted by the customer valid or not.

Customer Functionality:

1. Can register to the system.
2. Can Login to the system.
3. Can control their profile information (edit-delete-view etc.)
4. Can Logout to the system.
5. Can buy insurance.
6. Can cancel insurance.
7. Can edit information.
8. Can ask for renew insurance.
9. Can ask for insurance money.
10. Can comment or provide review etc.

Priority Level: High

Precondition: Customer must have valid User_Name and Password saved in database.

Suggestion for Customer functionality:

For View → Insurance → Compare option for all other insurance companies

→ Other insurance → Category for all other company

For Buy Insurance → Need to fill up insurance form with correct information

→ Attach Document (NID, Birth Certificate)

Submit → Get notification via email or mobile message

4.2 System Quality Attributes

- **Usability:** It is a quality attribute that assesses how easy user interfaces are to use. User can easily use our application because it will be user friendly. Because of not using CSS properly UI/UX interface is not well decorated and for this some user may face difficulties when they use this website. The system is not simple to learn for all the new users.
- **Reliability and Correctness:** It is not possible to say that our software is free from bug. For giving the user better experience we already ensured it's correctness. Our software does not crash automatically. It always provides the right output after taking input from the users.
- **Efficiency:** Because of our software is web-based user can easily use our application with his/her own laptop, phone etc. For this they just require internet connection. It can work in any network. User didn't need any high processor

capacity and RAM to use this. Our website is not responsive for the mobile users might face some difficulties. We are trying to fix this problem as soon as possible.

- **Security:** In our software we are trying to secure user data. Only the user who already registered in our software can see their activity and they can update their personal information.
- **Modularity:** In our system we use many modules and it has been combined to form a complete system. For this we can easily detect bugs from any specific module and can easily fix them. We can also add new features in our system part by part.
- **Maintainability:** For maintain our system maintenance team working on it. When any bug arises, they are trying to fix the bug as soon as possible. For fixing bug if they need to add new feature, they can easily perform their task.
- **Portability:** It means how easily we can replace our software from one to another environment. Now it is a web-based software but if we want, we can replace our program to desktop or android based software also.

4.3 System Interface



Figure 4.3(1): Website Home Page

The image shows a web interface for "ADMIN SIGN UP". It has a dark blue background with a light blue abstract design at the bottom right. The form fields are: "User_Name" (text input), "Password" (text input), "Confirm_Password" (text input), and "Sign Up" (yellow button). There are also "Reset" (yellow button) and "Login" (cyan button) buttons. A link "Back to Insurance Site" is in the top left corner.

Figure 4.3(2): Admin Signup Page



Figure 4.3(3): Admin Login Page

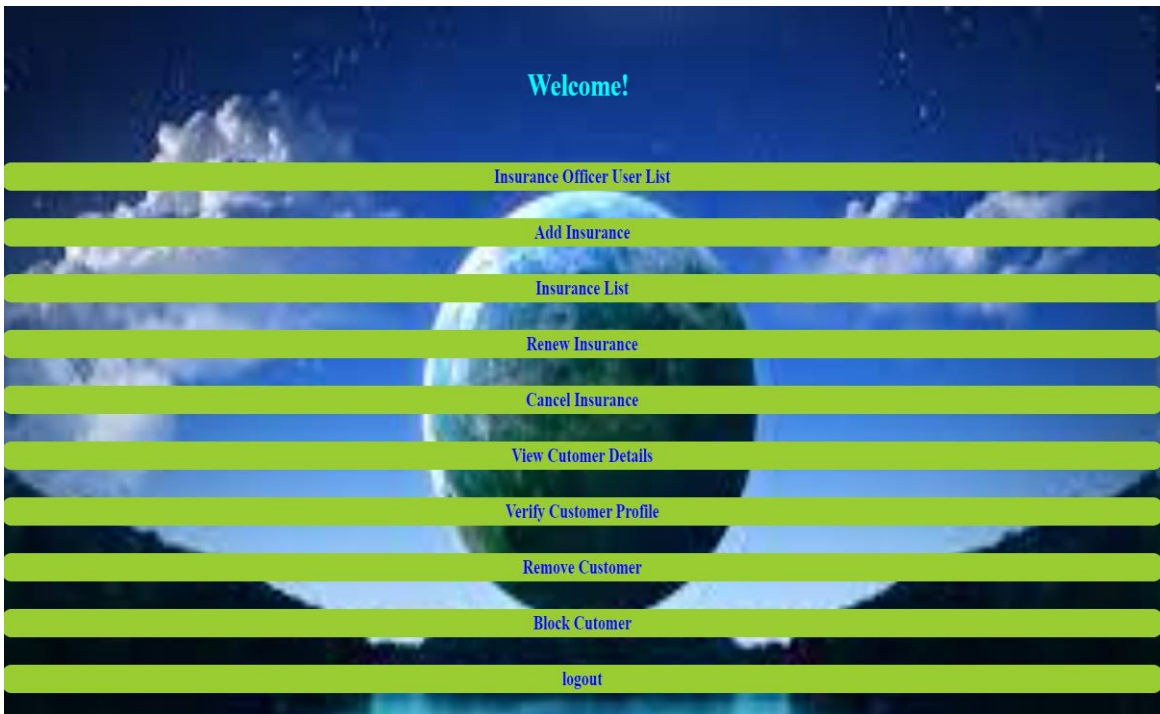


Figure 4.3(4): Admin Home Page

[Back](#)

INSURANCE

Serial No :

Serial_No

Creation Date :

mm/dd/yyyy

Category :

☐ Life_Insurance
☐ Property_Insurance
☐ Car_Insurance
☐ Fire_Insurance

Figure 4.3(5): Adding Insurance

[Back](#)

[Logout](#)

Insurance List

| Serial_No | Creation_Date | Category |
|-----------|---------------|--------------------|
| 100 | 2022-11-03 | Life_Insurance |
| 104 | 2022-06-30 | Life_Insurance |
| 105 | 2022-06-30 | Car_Insurance |
| 106 | 2022-06-30 | Fire_Insurance |
| 107 | 2022-06-30 | Life_Insurance |
| 108 | 2022-06-30 | Fire_Insurance |
| 109 | 2022-06-30 | Property_Insurance |
| 110 | 2022-06-30 | Property_Insurance |
| 111 | 2022-08-09 | Life_Insurance |
| 112 | 2022-08-10 | Property_Insurance |
| 113 | 2022-08-10 | Fire_Insurance |
| 114 | 2022-08-22 | Car_Insurance |
| 116 | 2022-08-22 | Car_Insurance |
| 117 | 2022-08-22 | Life_Insurance |
| 118 | 2022-08-22 | Fire_Insurance |
| 119 | 2022-08-23 | Fire_Insurance |
| 120 | 2022-08-23 | Life_Insurance |
| 121 | 2022-08-23 | Car_Insurance |
| 122 | 2022-08-23 | Fire_Insurance |
| 123 | 2022-08-24 | Property_Insurance |
| 125 | 2022-08-24 | Life_Insurance |

Figure 4.3(6): Showing Insurance List

[Back to Welcome Page](#)

SIGN UP





Name :

Gender :
☐ Male ☐ Female
☐ Other

Email :

DOB :
 mm-dd-yyyy ☐

Blood_Group :

Degree :
☐ BSC ☐ BBA
☐ MSC ☐ MBA
☐ Others

Occupation :

User_Name :

Password :

Confirm_Password :

User Type :
☐ Insurance Officer

Figure 4.3(7): Insurance Officer Signup page

LOGIN

User_Name :

Password :

Figure 4.3(8): Insurance Officer Login Page

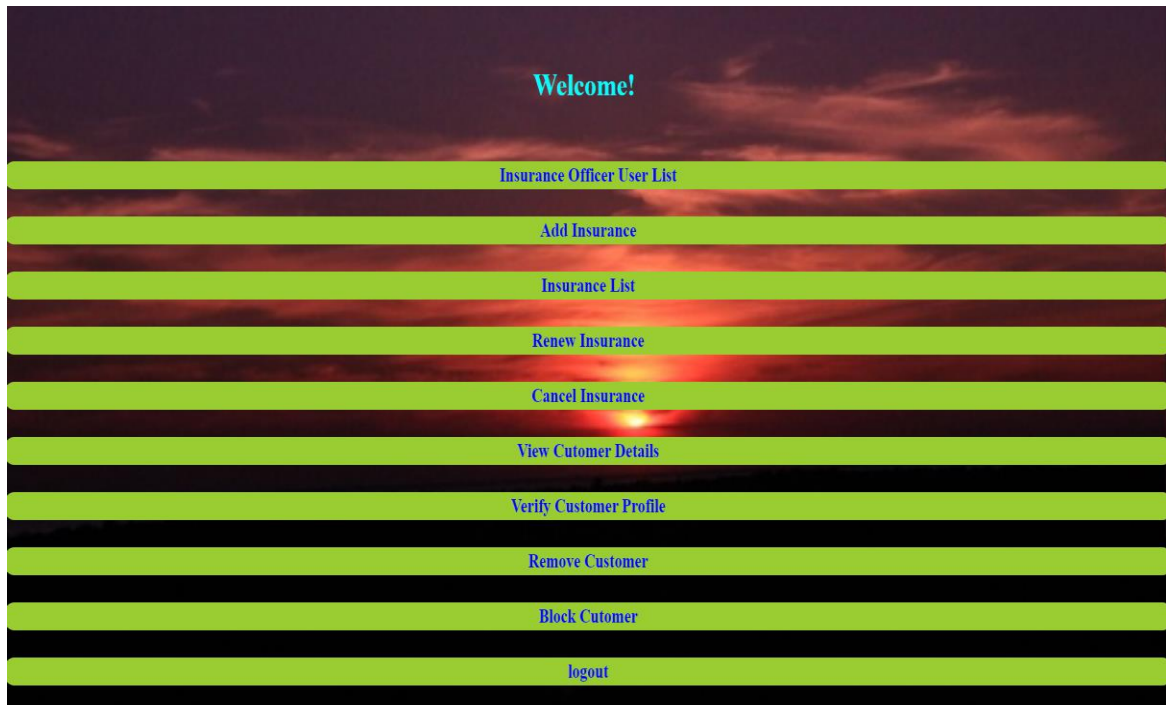


Figure 4.3(9): Insurance Officer home page

[Back](#)

[logout](#)

| ID | Name | Gender | Email | DoB | Blood_Group | Degree | Occupation | User_Name | Password | Confirm_Password | Actions |
|----|---------|--------|-------------------|------------|-------------|--------|------------|-----------|----------|------------------|---|
| 1 | Mahabub | Male | mahabub@gmail.com | 2001-10-12 | A+ | BSC | Student | mahabub | 12345 | 12345 | Edit Delete |
| 12 | ijaz | Male | ijaz@gmail.com | 2001-10-12 | A- | BSC | Student | ijaz | 123 | 123 | Edit Delete |
| 13 | abc | Male | abc@gmail.com | 2000-01-01 | A+ | BSC | Student | abc | 123 | 123 | Edit Delete |
| 14 | xyz | Male | xyz@gmail.com | 2002-01-01 | O+ | Others | Student | xyz | 123 | 123 | Edit Delete |
| 15 | abcd | Male | abcd@gmail.com | 2002-10-10 | A- | Others | Student | abcd | 123 | 123 | Edit Delete |
| 16 | abcde | Male | abcde@gmail.com | 0000-00-00 | AB+ | Others | Student | abcde | 123 | 123 | Edit Delete |
| 17 | Ove | Male | ove@gmail.com | 2000-10-10 | AB+ | MSC | Student | ove | 12345 | 12345 | Edit Delete |
| 18 | akib | Male | akib@gmail.com | 1999-10-01 | B+ | BSC | Student | akib | 12345 | 12345 | Edit Delete |
| 19 | ome | Male | ome@gmail.com | 2000-12-10 | A+ | BBA | Student | ome | 123 | 123 | Edit Delete |

Figure 4.3(10): Insurance Officer list

[Back to Welcome Page](#)

SIGN UP

NID :

Name :

Gender :
☐ Male ☐ Female
☐ Other

Email :

DOB :
 / /

Blood_Group :

Degree :
☐ BSC ☐ BBA
☐ MSC ☐ MBA
☐ Others

Occupation :

User_Name :

Password :

Confirm_Password :

User_Type :
☐ Customer

[Sign Up](#) [Reset](#) [Login](#)

Figure 4.3(11): Customer Signup page

LOGIN

NID :

Password :

[Login](#) [Reset](#) [Sign up](#) [Home Page](#)

Figure 4.3(12): Customer Login Page

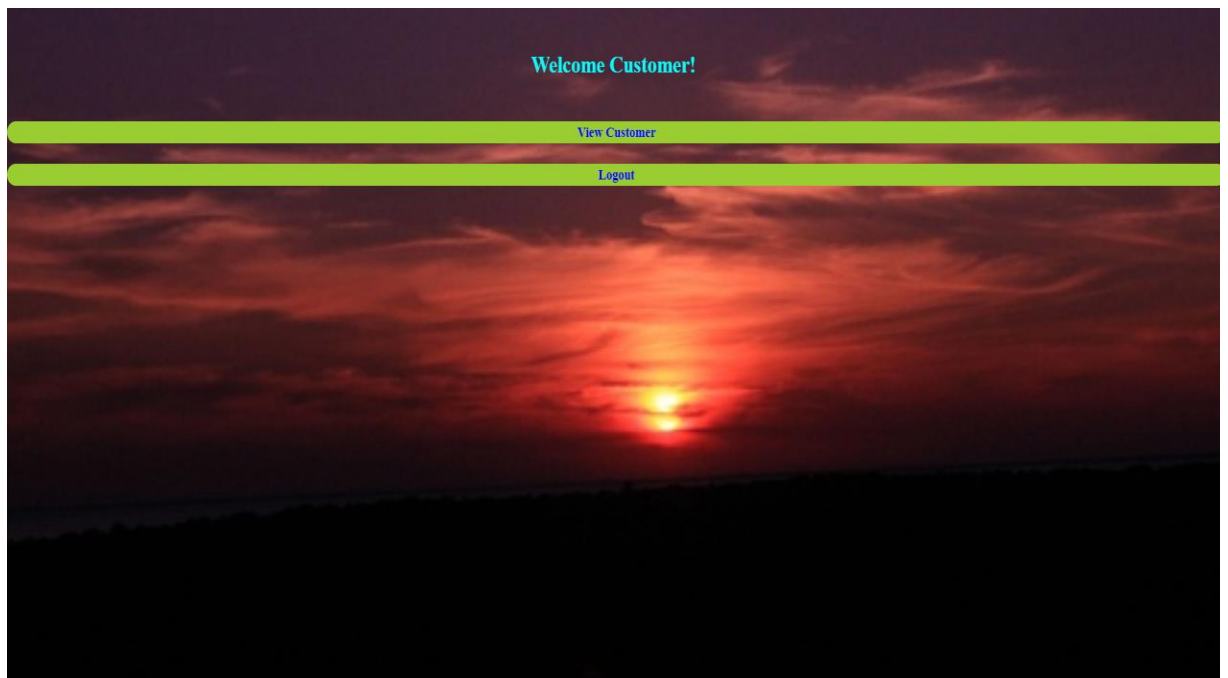


Figure 4.3(13): Customer Home Page

[Back](#)

[logout](#)

| NID | Name | Gender | Email | DoB | Blood_Group | Degree | Occupation | User_Name | Password | Confirm_Password | Actions |
|-----|-------|--------|-----------------|------------|-------------|--------|------------|-----------|----------|------------------|--|
| 2 | Hasan | Male | hasan@gmail.com | 1999-06-08 | B+ | BSC | Student | hasan | 12345 | 12345 | Remove Block |

Figure 4.3(14): Customer list

4.4 Project Requirements

For our project development,

- The number of members needed $\rightarrow 5$
- Time needed $\rightarrow 2$ months
- 1 month 4 weeks. So, we need $2*4 \rightarrow 8$ weeks
- In 1 week, we get 5 working days
- 1 working days, we get 8 hours
- So, Total working hour in per week $\rightarrow (5*8) \rightarrow 40$ hours
- Now total working hour in 8 weeks $\rightarrow (8*40) \rightarrow 320$ hours
- Developers Salary per hour $\rightarrow 1,250$ BDT
- Developers Salary in 320 hours $\rightarrow (1250*320) \rightarrow 4,00,000$ BDT
- Office Rent for 3 months $\rightarrow (20,000*3) \rightarrow 60,000$ BDT
- Maintenance Cost in 1 week $(5*1000) \rightarrow 5,000$ BDT
- Maintenance Cost in 8 weeks $(5000*8) \rightarrow 40,000$ BDT
- Snacks cost for 1 person in 1 day $\rightarrow 150$ BDT
- Snacks cost for 5 persons in 1 day $\rightarrow 750$ BDT
- Snacks cost for 5 persons in 40 days $\rightarrow 30,000$ BDT

| Expanses | Total Amount (BDT) |
|------------------------------|--------------------|
| 5 Developers Salary | 4,00,000 |
| Office rent for 3 months | 60,000 |
| Maintenance Cost | 40,000 |
| Electricity Cost | 2,000 |
| Snacks Cost | 30,000 |
| Miscellaneous Fee | 8,000 |
| Total Cost is | 5,40,000 |
| For Profit 15% of total cost | 81,000 |
| Total Budget is | 6,21,000 |

5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. For example:

Admin can remove Insurance Officer: In our web-based application one feature is admin can remove insurance officer. In testing time, we didn't test this feature.

Insurance Officer can check the Customer list: In our web-based application we already test customer list by admin so that we didn't check again with insurance officer.

Customer can remove his information from database: In our web-based application we also have another feature that customer can update and remove his data from database. We already check update data in database so we didn't check the data remove feature.

6. TESTING APPROACH

6.1 Testing Levels

- **Unit Testing:** Test a small software unit at a time. In this testing we will test part by part software units. We need to test for every single method. It is usually performed by developer and white box testing use in it. Main goal of this testing is to isolate written code to test and determine if it works as intended.
- **Integration Testing:** After completing the unit testing, we will start integration testing. Here we will make sure that all the modules in our software integrated logically. Bottom-up integration is followed in this testing.
- **System Testing:** After completing both test we will start system testing. In this testing we will test all the features in a software. Everything should be done in system testing. Black Box Testing used to verify all the requirements meet perfectly.
- **Acceptance Testing:** It is the last step of testing. Not only developer but also user can also check this testing. If all the function works properly user accept. Otherwise, developer need to fix this problem again. After that, software is ready to release for users.

6.2 Test Tools

We used Selenium IDE for testing cases.

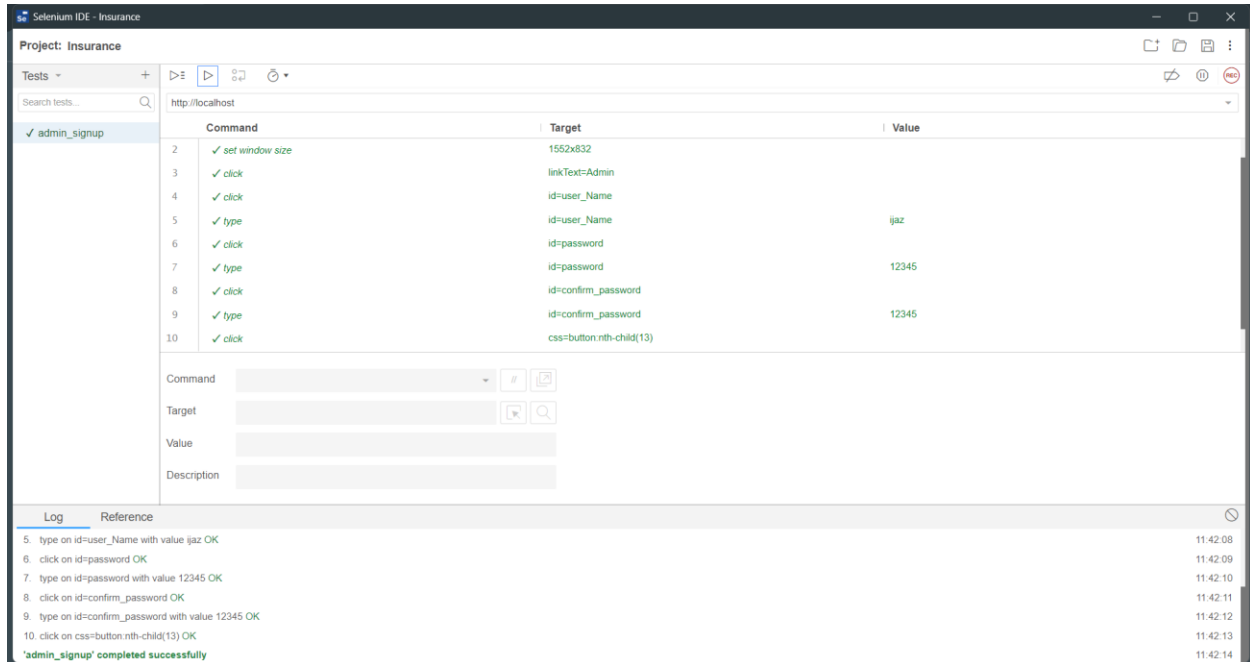


Figure 6.2(1): admin_signup test case completed successfully.

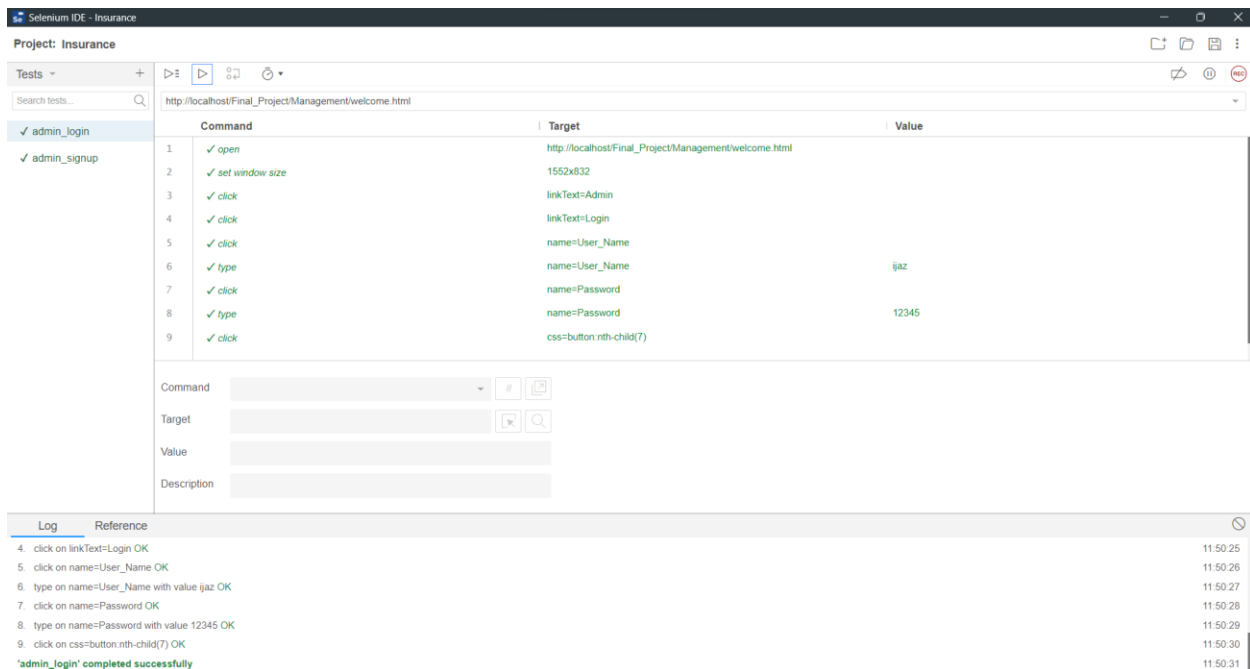


Figure 6.2(2): admin_login test case completed successfully.

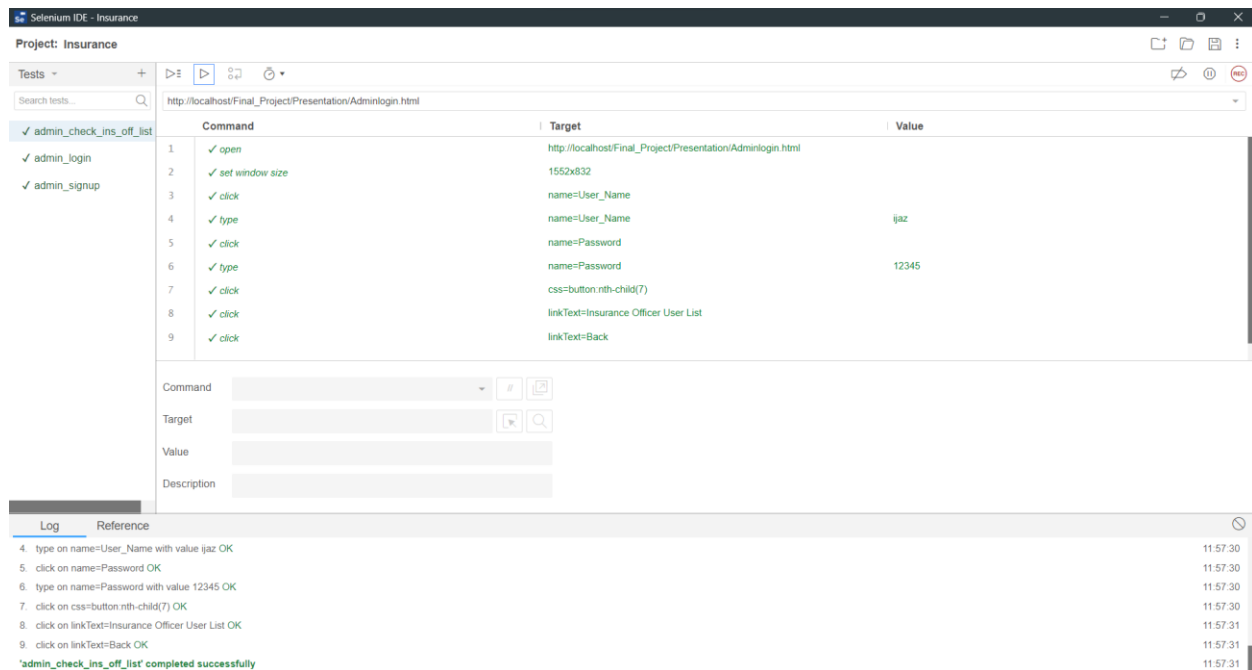


Figure 6.2(3): admin can successfully check insurance officer list

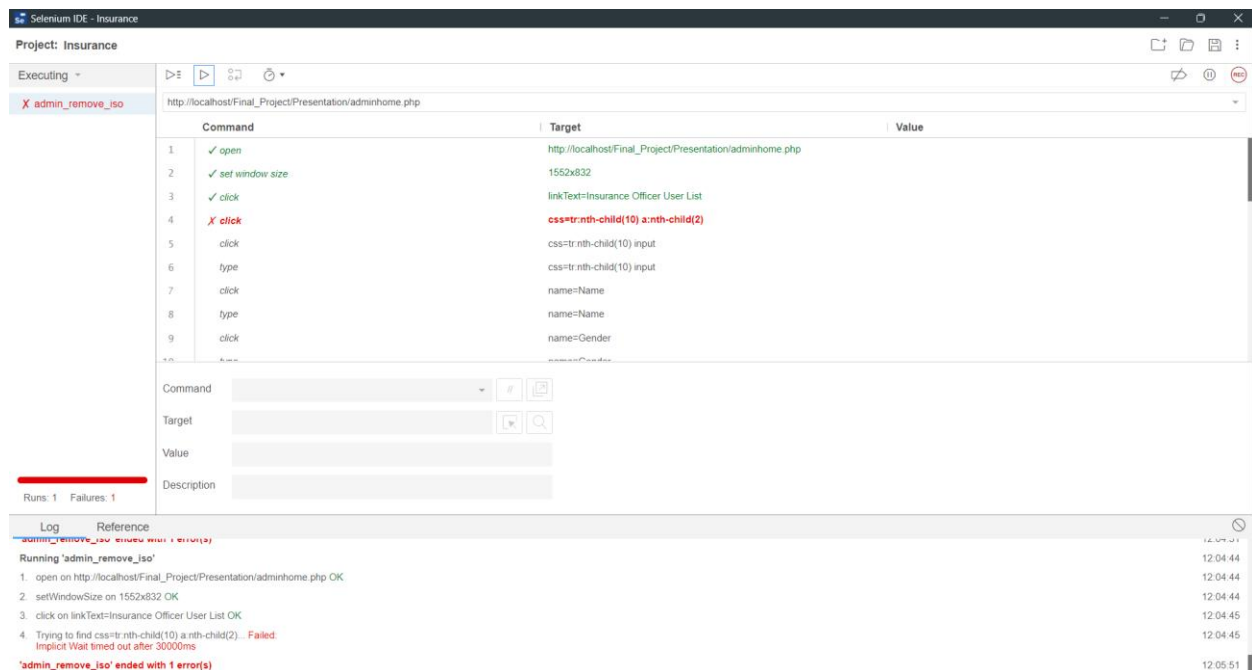


Figure 6.2(4): remove insurance officer by admin test failed

Selenium IDE - Insurance

Project: Insurance

Tests +

Search tests...

http://localhost/Final_Project/Presentation/Signup.html

| Command | Target | Value |
|-------------------|---|---------|
| ✓ open | http://localhost/Final_Project/Presentation/Signup.html | |
| ✓ set window size | 1552x832 | |
| ✓ click | linkText=Login | |
| ✓ click | name=User_Name | |
| ✓ type | name=User_Name | Mahabub |
| ✓ click | name=Password | |
| ✓ type | name=Password | 12345 |
| ✓ click | css=button:nth-child(7) | |

Command

Target

Value

Description

Log Reference

3. click on linkText=Login OK 12:19:01

4. click on name=User_Name OK 12:19:02

5. type on name=User_Name with value Mahabub OK 12:19:03

6. click on name=Password OK 12:19:04

7. type on name=Password with value 12345 OK 12:19:05

8. click on css=button:nth-child(7) OK 12:19:06

'insurance_off_login' completed successfully 12:19:07

Figure 6.2(5): Insurance officer login test case completed successfully.

Selenium IDE - Insurance

Project: Insurance

Tests +

Search tests...

http://localhost/Final_Project/Presentation/login.html

| Command | Target | Value |
|---------|--------------------------------------|------------|
| ✓ type | name=User_Name | fahad |
| ✓ click | name=DOB | |
| ✓ type | name=DOB | 0001-12-05 |
| ✓ type | name=DOB | 0019-12-05 |
| ✓ type | name=DOB | 0199-12-05 |
| ✓ type | name=DOB | 1999-12-05 |
| ✓ click | name=submit | |
| ✓ click | linkText=Insurance Officer User List | |
| ✓ click | linkText=Back | |

Command

Target

Value

Description

Log Reference

25. type on name=DOB with value 0019-12-05 OK 12:24:00

26. type on name=DOB with value 0199-12-05 OK 12:24:01

27. type on name=DOB with value 1999-12-05 OK 12:24:02

28. click on name=submit OK 12:24:03

29. click on linkText=Insurance Officer User List OK 12:24:04

30. click on linkText=Back OK 12:24:05

'insurance_off_update' completed successfully 12:24:06

Figure 6.2(6): Insurance officer data updated successfully.

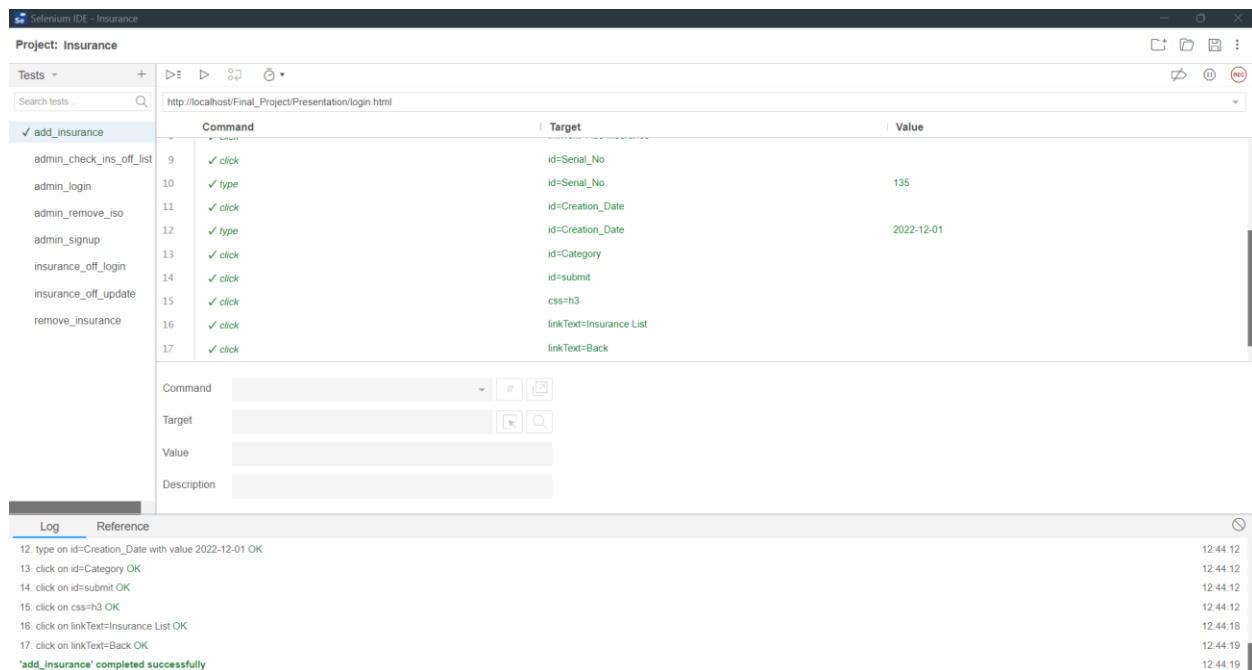


Figure 6.2(7): Adding insurance test case completed successfully.

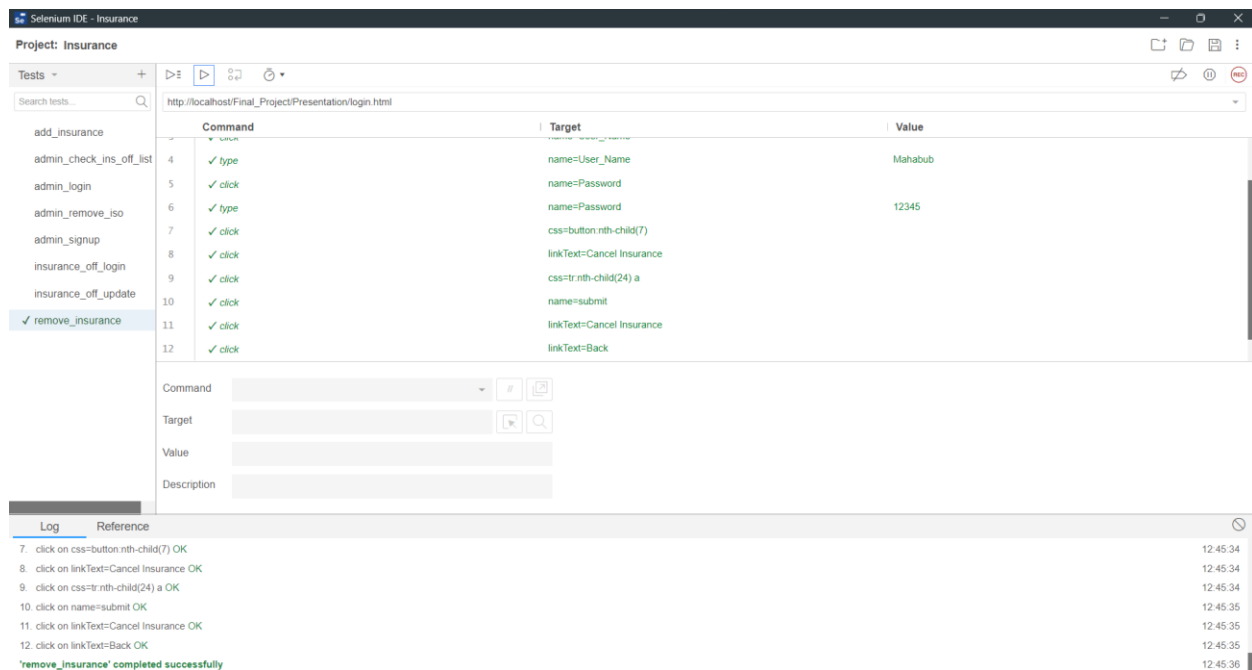


Figure 6.2(8): Removing insurance test case completed successfully.

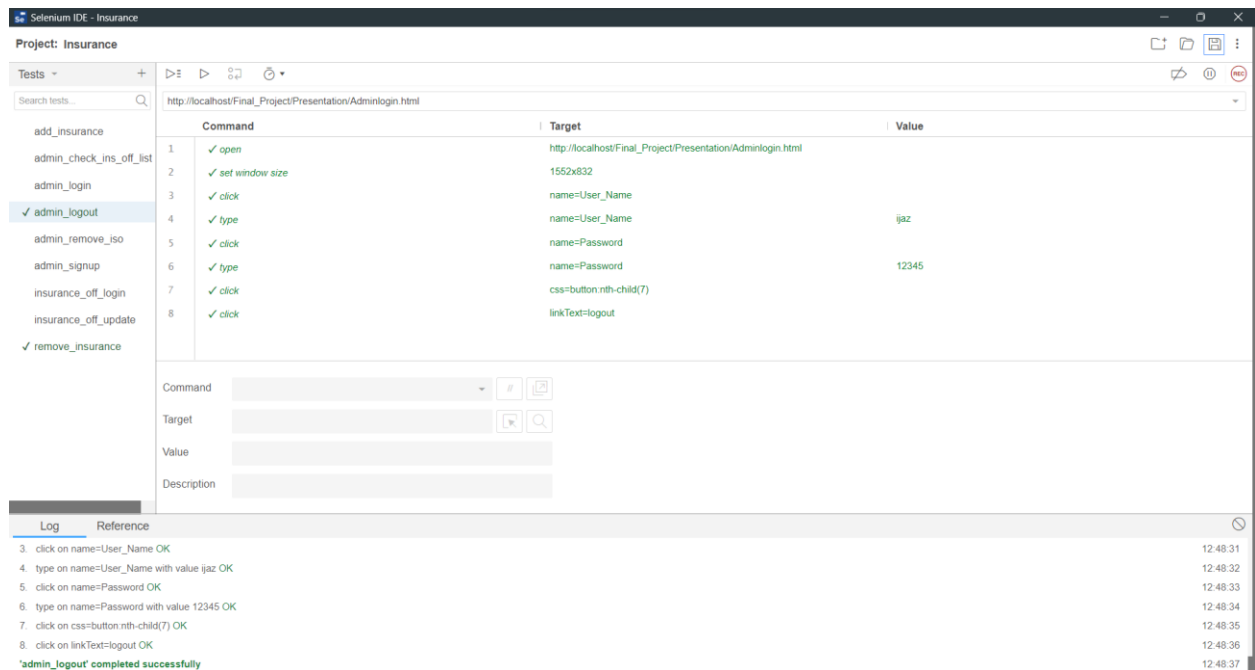


Figure 6.2(9): admin logout test case completed successfully.

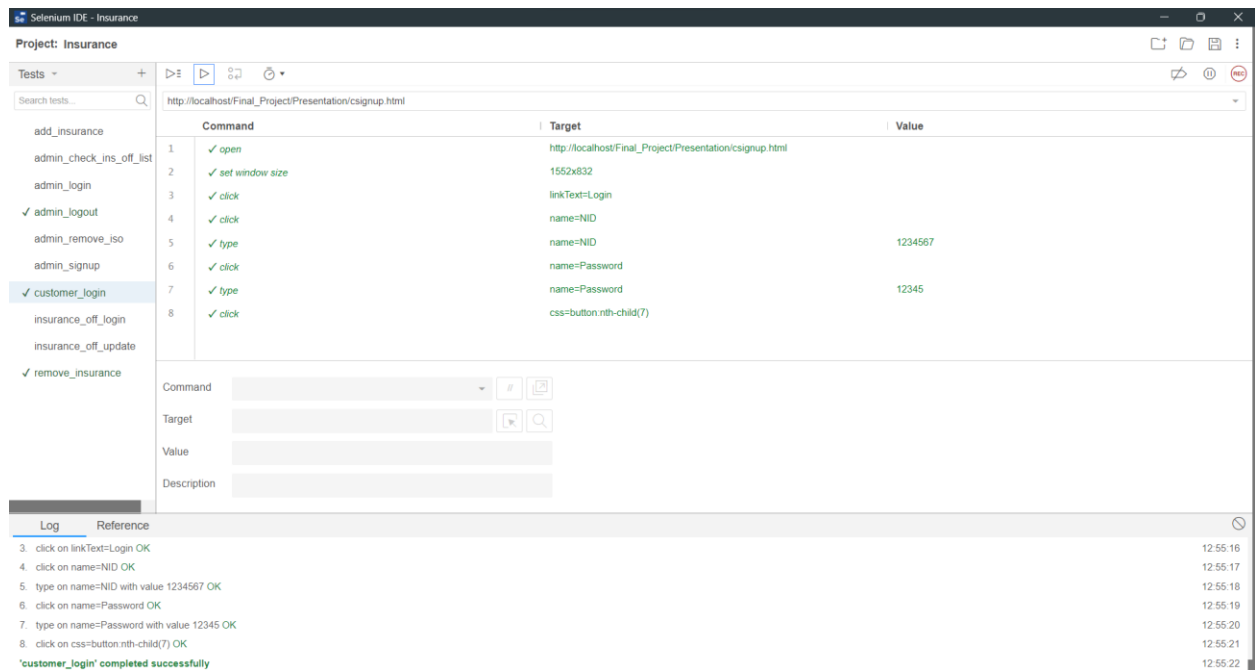


Figure 6.2(10): customer login test case completed successfully.

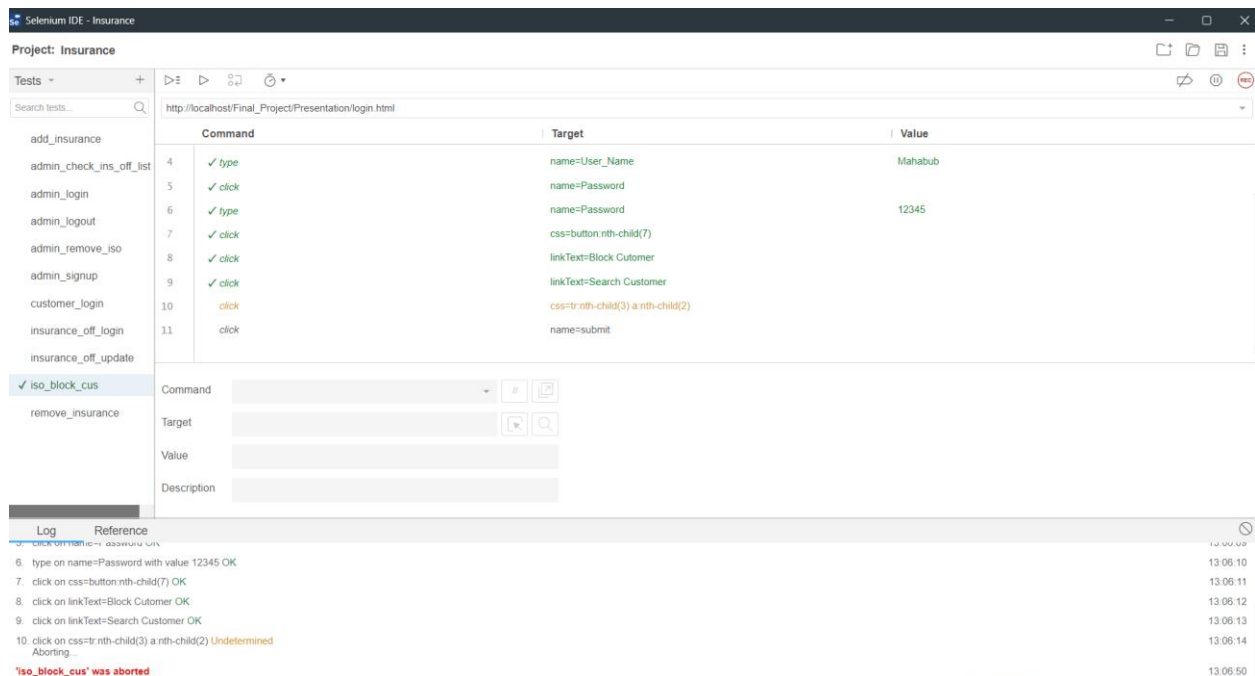


Figure 6.2(11): Insurance officer block customer test case failed.

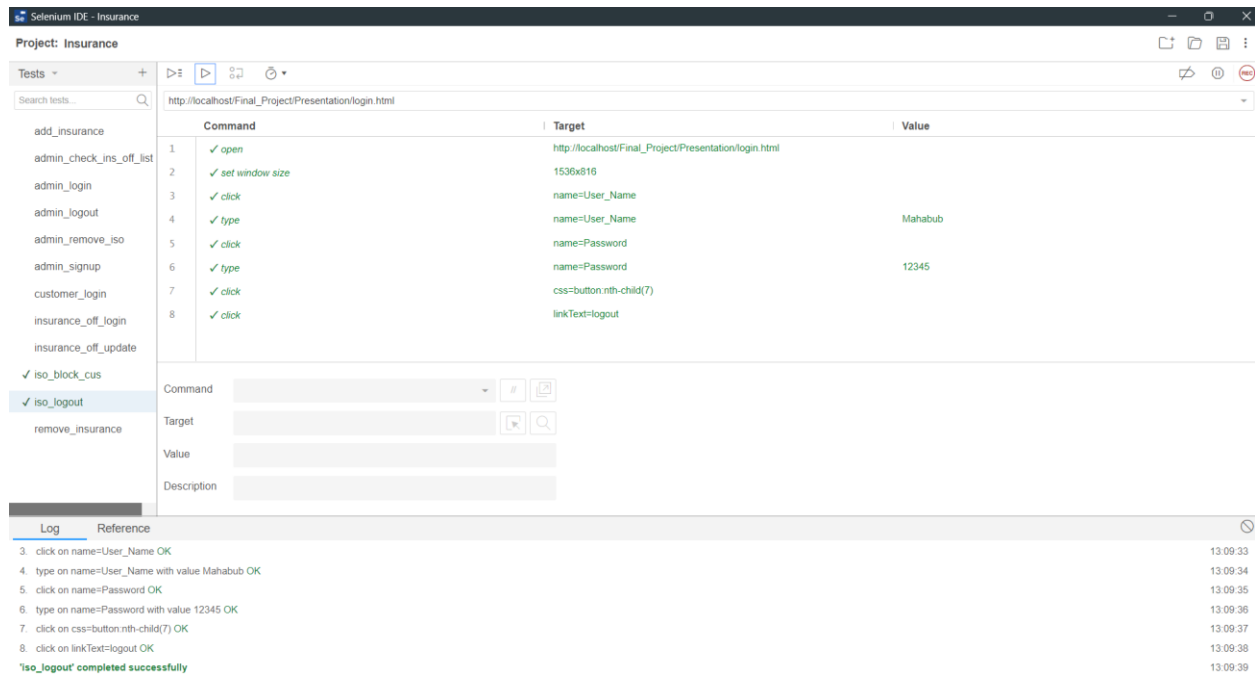


Figure 6.2(12): Insurance officer logout test case completed successfully.

Selenium IDE - Insurance

Project: Insurance

Tests +

Search tests...

http://localhost/Final_Project/Presentation/clogin.html

| Command | Target | Value |
|---------------------|---|---------|
| 1 ✓ open | http://localhost/Final_Project/Presentation/clogin.html | |
| 2 ✓ set window size | 1536x816 | |
| 3 ✓ click | name=NID | |
| 4 ✓ type | name=NID | 1234567 |
| 5 ✓ click | name=Password | |
| 6 ✓ type | name=Password | 12345 |
| 7 ✓ click | css=button:nth-child(7) | |
| 8 ✓ click | linkText=View Customer | |
| 9 ✓ click | linkText=Back | |

Command

Target

Value

Description

Log Reference

4. type on name=NID with value 1234567 OK 13:13:25

5. click on name=Password OK 13:13:26

6. type on name=Password with value 12345 OK 13:13:27

7. click on css=button:nth-child(7) OK 13:13:28

8. click on linkText=View Customer OK 13:13:29

9. click on linkText=Back OK 13:13:30

'customer_view_details' completed successfully 13:13:31

Figure 6.2(13): Customer view personal data test case completed successfully.

Selenium IDE - Insurance

Project: Insurance

Tests +

Search tests...

http://localhost/Final_Project/Presentation/clogin.html

| Command | Target | Value |
|---------------------|---|---------|
| 1 ✓ open | http://localhost/Final_Project/Presentation/clogin.html | |
| 2 ✓ set window size | 1536x816 | |
| 3 ✓ click | name=NID | |
| 4 ✓ type | name=NID | 1234567 |
| 5 ✓ click | name=Password | |
| 6 ✓ type | name=Password | 12345 |
| 7 ✓ click | css=button:nth-child(7) | |
| 8 ✓ click | linkText=Logout | |

Command

Target

Value

Description

Log Reference

3. click on name=NID OK 13:15:34

4. type on name=NID with value 1234567 OK 13:15:35

5. click on name=Password OK 13:15:36

6. type on name=Password with value 12345 OK 13:15:37

7. click on css=button:nth-child(7) OK 13:15:38

8. click on linkText=Logout OK 13:15:39

'customer_logout' completed successfully 13:15:40

Figure 6.2(14): Customer logout test case completed successfully.

6.3 Meetings

To complete a project perfectly work should be distributed to the right person/team. All the member in a team need to understand about their work in their selected area. The test team will meet once in every week to evaluate progress to date and to identify error trends and problems as early as possible. The test team leader will meet with development and the project manager once every two weeks as well. These two meetings will be scheduled on different weeks. Additional meetings can be called as required for emergency situations.

7. TEST CASES/TEST ITEMS

7.1 Admin Signup

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|--|---|---|----------------|--------------------|
| Test Case ID: Admin Signup _01 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Admin Signup Session | | Test Execution date: 01-12-22 | | |
| Test Title: Signup with valid username and password | | | | |
| Description: Test website admin signup page | | | | |
| Precondition (If any): Admin Can't use null value in User_Name / Password. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Admin Button 3. Enter User_Name 4. Enter Password 5. Enter Confirm_Password 6. Click submit | User_Name: ijaz Password: 12345 Confirm_Password: 12345 | Admin should signup into the application | As expected, | Pass |
| Post Condition: User is validated with database and successfully signup to account. The account session details are stored in the database. | | | | |

7.2 Admin Login

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|---|--|---|----------------|--------------------|
| Test Case ID: Admin Login _02 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Admin Login Session | | Test Execution date: 01-12-22 | | |
| Test Title: Login with valid username and password | | | | |
| Description: Test website admin login page | | | | |
| Precondition (If any): Admin must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Admin Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit | User_Name: ijaz Password: 12345 | Admin should login into the application | As expected, | Pass |
| Post Condition: User is validated with database and successfully login to account. The account session details are stored in the database. | | | | |

7.3 Admin Check Insurance Officers List

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|---|--|---|----------------|--------------------|
| Test Case ID: Admin Check Insurance Officer List _03 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Admin Check Insurance Officer List Session | | Test Execution date: 01-12-22 | | |
| Test Title: Check Insurance Officer List | | | | |
| Description: Test website admin Check Insurance Officer List. | | | | |
| Precondition (If any): Admin must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Admin Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit 7. Successfully login and enter into Admin home 8. Click on Insurance Officer User List. 9. View all the details. | User_Name: ijaz Password: 12345 | Admin should view insurance officer list into the application | As expected, | Pass |
| Post Condition: Admin can view anytime after login with his valid User_Name & Password. | | | | |

7.4 Admin Can Remove Insurance Officers

| | | | | |
|---|---|---|-----------------------|---|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Admin Can Remove Insurance Officer _04 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Admin Can Remove Insurance Officer Session | | Test Execution date: 01-12-22 | | |
| Test Title: Remove Insurance Officer | | | | |
| Description: Test website admin Can Remove Insurance Officer. | | | | |
| Precondition (If any): Admin must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| <div>1. Go to the website</div> <div>2. Click on Admin Button</div> <div>3. Click on Login Button</div> <div>4. Enter User_Name</div> <div>5. Enter Password</div> <div>6. Click submit</div> <div>7. Successfully login and enter into Admin home page.</div> <div>8. Click on Insurance Officer User List.</div> <div>9. View all the details.</div> <div>10. Click on Delete button.</div> <div>11. In Next Page Click on Submit.</div> <div>12. Back to Admin home page.</div> <div>13. Click on Insurance Officer user list.</div> <div>14. See officer information removed from list.</div> | <div>User_Name: ijaz</div> <div>Password: 12345</div> | Admin can remove insurance officer from the application | As not expected, | <div>Fail.</div> <div>Note: Because of some problem in database server related issue admin cannot remove insurance officer</div> |
| Post Condition: Admin can view any time after login with his valid User_Name & Password. Then easily modify the data also. | | | | |

7.5 Insurance Officer Login

| | | | | |
|--|---|---|-----------------------|---------------------------|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Insurance Officer Login _05 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Insurance Officer Login Session | | Test Execution date: 01-12-22 | | |
| Test Title: Login with valid username and password | | | | |
| Description: Test website insurance officer login page | | | | |
| Precondition (If any): Insurance Officer must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Insurance Officer Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit | User_Name: Mahabub Password: 12345 | Admin should login into the application | As expected, | Pass |
| Post Condition: User is validated with database and successfully login to account. The account session details are stored in the database. | | | | |

7.6 Insurance Officers Can Update Their Data.

| | | | | |
|--|---|---|-----------------------|---------------------------|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Insurance Officers Can Update Their Data _06 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Insurance Officers can update their data Session | | Test Execution date: 01-12-22 | | |
| Test Title: Insurance Officers can update their data | | | | |
| Description: Test website Insurance Officers can update their data. | | | | |
| Precondition (If any): Insurance Officer must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Insurance Officer Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit 7. Successfully login and enter into Insurance Officer home page. 8. Click on Insurance Officer User List. 9. View all the details. 10. Click on edit button. 11. In Next Page Click on update button. 12. Back to Insurance Officer home page. 13. Click on Insurance Officer user list. 14. See officer data updated into the list. | User_Name: Mahabub Password: 12345 | Insurance Officers can update their data into the application | As expected, | Pass |
| Post Condition: Insurance Officer can view any time after login with his valid User_Name & Password. Then easily modify the data also. | | | | |

7.7 Insurance Officer Can Add Insurance.

| | | | | |
|---|---|--|-----------------------|---------------------------|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Insurance Officers Can add insurance _07 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Insurance Officer can add insurance Session | | Test Execution date: 01-12-22 | | |
| Test Title: Insurance Officers can add insurance. | | | | |
| Description: Test website Insurance Officers can add insurance. | | | | |
| Precondition (If any): Insurance Officer must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Insurance Officer Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit 7. Successfully login and enter into Insurance Officer home page. 8. Click on add Insurance button. 9. Fill up all the details. 10. Click on submit button. 11. Back to Insurance Officer home page. 12. Click on Insurance list. 13. See officer new insurance data updated into the list. | User_Name: Mahabub Password: 12345 | Insurance Officer can add insurance into the application | As expected, | Pass |
| Post Condition: Insurance Officer can add insurance after login with his valid User_Name & Password. Then easily modify the data also. | | | | |

7.8 Insurance Officer Can Remove Insurance.

| | | | | |
|--|--|---|-----------------------|---------------------------|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Insurance Officers Can Remove insurance _08 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Insurance Officer can remove insurance Session | | Test Execution date: 01-12-22 | | |
| Test Title: Insurance Officers can remove insurance. | | | | |
| Description: Test website Insurance Officers can remove insurance. | | | | |
| Precondition (If any): Insurance Officer must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| <div>1. Go to the website</div> <div>2. Click on Insurance Officer Button</div> <div>3. Click on Login Button</div> <div>4. Enter User_Name</div> <div>5. Enter Password</div> <div>6. Click submit</div> <div>7. Successfully login and enter into Insurance Officer home page.</div> <div>8. Click on remove Insurance button.</div> <div>9. Fill up all the details.</div> <div>10. Click on submit button.</div> <div>11. Back to Insurance Officer home page.</div> <div>12. Click on Insurance list.</div> <div>13. See officer insurance data remove from the list.</div> | <div>User_Name: Mahabub</div> <div>Password: 12345</div> | Insurance Officer can remove insurance into the application | As expected, | Pass |
| Post Condition: Insurance Officer can remove insurance after login with his valid User_Name & Password. | | | | |

7.9 Admin Logout

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|--|--|---|----------------|--------------------|
| Test Case ID: Admin Logout _09 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Admin Logout Session | | Test Execution date: 01-12-22 | | |
| Test Title: Admin logout from system | | | | |
| Description: Test website admin logout system | | | | |
| Precondition (If any): Admin must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Admin Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit 7. After this come to admin home page 8. Click on logout button. 9. Successfully logout and come to website home page. | User_Name: ijaz Password: 12345 | Admin logout from the application | As expected, | Pass |
| Post Condition: Admin is validated with database and successfully login to account and then after completing his task can logout from the website. | | | | |

7.10 Customer Login

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|--|-------------------------------------|---|----------------|--------------------|
| Test Case ID: Customer Login _10 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: customer Login Session | | Test Execution date: 01-12-22 | | |
| Test Title: Login with valid NID and Password | | | | |
| Description: Test website customer login page | | | | |
| Precondition (If any): Customer must type valid NID / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Customer Button 3. Click on Login Button 4. Enter NID 5. Enter Password 6. Click submit 7. Login Successful | NID: 1234567 Password: 12345 | Customer should login into the application | As expected, | Pass |
| Post Condition: User is validated with database and successfully login to account. The account session details are stored in the database. | | | | |

7.11 Insurance Officer Can Block Customer

| | | | | |
|---|---|---|-----------------------|--|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Insurance Officer Can Block Customer _11 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Insurance Officer can block Customer Session | | Test Execution date: 01-12-22 | | |
| Test Title: Insurance officer can block customer | | | | |
| Description: Test website Insurance Officer can block customer. | | | | |
| Precondition (If any): Insurance Officer must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Insurance Officer Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit 7. Successfully login and enter into insurance officer home page. 8. Click on customer List. 9. Click on block button. 10. In Next Page Click on Submit. 11. Back to insurance officer home page. 12. Click on customer list. 13. See customer block in the list. | User_Name: Mahabub Password: 12345 | Insurance officer can block customer from the application | As not expected, | Fail Note: Because of not implementing customer block feature insurance officer cannot block customer at this moment |
| Post Condition: Admin can view any time after login with his valid User_Name & Password. Then easily modify the data also. | | | | |

7.12 Insurance Officer Logout

| | | | | |
|--|--|---|-----------------------|---------------------------|
| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
| Test Case ID: Insurance Officer Logout _12 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Insurance Officer Logout Session | | Test Execution date: 01-12-22 | | |
| Test Title: Insurance Officer logout | | | | |
| Description: Test website insurance officer logout system | | | | |
| Precondition (If any): Insurance Officer must type valid User_Name / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Insurance Officer Button 3. Click on Login Button 4. Enter User_Name 5. Enter Password 6. Click submit 7. After this come to insurance officer home page 8. Click on logout button. 9. Successfully logout and come to website home page. | User_Name: ijaz Password: 12345 | Insurance Officer logout from the application | As expected, | Pass |
| Post Condition: Admin is validated with database and successfully login to account and then after completing his task can logout from the website. | | | | |

7.13 Customer Can View Personal Details

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|--|--------------------------------|---|----------------|--------------------|
| Test Case ID: Customer can view personal details_13 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Customer can view personal details session | | Test Execution date: 01-12-22 | | |
| Test Title: Customer can view personal details | | | | |
| Description: Test website customer can view personal details. | | | | |
| Precondition (If any): Customer must type valid NID / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Customer Button 3. Click on Login Button 4. Enter NID 5. Enter Password 6. Click submit 7. Successfully login and enter into Customer home page. 8. Click on customer user list. 9. View all the details. | NID:1234567 Password: 12345 | Customer can view personal information into the application | As expected, | Pass |
| Post Condition: Customer can view any time after login with his valid NID & Password. | | | | |

7.14 Customer Logout

| Project Name: Insurance Management System | | Test Designed by: Md. Mahabub Morshed Ijaz | | |
|--|--------------------------------|---|----------------|--------------------|
| Test Case ID: Customer Logout _14 | | Test Designed date: 30-11-22 | | |
| Test Priority (Low, Medium, High): High | | Test Executed by: Md. Mahabub Morshed Ijaz | | |
| Module Name: Customer Logout Session | | Test Execution date: 01-12-22 | | |
| Test Title: Customer logout | | | | |
| Description: Test website customer logout system | | | | |
| Precondition (If any): Customer must type valid NID / Password which already stored in database. | | | | |
| Test Steps | Test Data | Expected Results | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Click on Customer Button 3. Click on Login Button 4. Enter NID 5. Enter Password 6. Click submit 7. After this come to Customer home page 8. Click on logout button. 9. Successfully logout and come to website home page. | NID:1234567 Password: 12345 | Customer logout from the application | As expected, | Pass |
| Post Condition: Customer is validated with database and successfully login to account and then after completing his task can logout from the website. | | | | |

8. ITEM PASS/FAIL CRITERIA

After testing the test cases, we can say that 100% testing is impossible. Here we have tested total 14 test cases. From this we can see that 12 test cases were tested successfully and rest of the 2 cases were failed. After checking the problem, we can say that there were some database issues. At last, we can measure that 85.70% of test cases were successful and 14.30% of test cases were failed.

9. TEST DELIVERABLES

- Test plan document
- Test design standard
- Test case document
- Test procedures
- Test logs
- Test execution report
- Bug report
- Test closure report
- Release notes

10. STAFFING AND TRAINING NEEDS

For completing this project, we need a Project Manager, Programmer & Test Engineer.

Project Manager: In this project will approving all the test plans. He is responsible for the planning, executing and completion of this project. He decided about all the budgets, working tools and other necessary staffs are need for complete project. At least three years of experience needed to become e project manager.

Programmer: To create a perfect project programmer needs to be very sincere about their responsibilities. Programmer can design code, implement code, modify code, etc. Programmer also need at least three years of working experience in the IT industry. Programmer also need to know about different programming languages and it can be different in different companies as their working requirements.

Test Engineer: Test engineer checks all the program which was written by programmers. They work on a system to ensure that client get a high-quality product. They also need to know the basic idea about programming because when they are trying to manual test, they might need to check everything but for dynamic its different.

11. RESPONSIBILITIES

| Name | Project Role | Responsibilities |
|--------------------------|-----------------|---|
| Bevan Saha | Project Manager | <ol style="list-style-type: none"> 1. Control entire project 2. Providing test environment 3. Witnessing all the test performance 4. Checking all the test cases result |
| MD. Mahabub Morshed Ijaz | Programmer | <ol style="list-style-type: none"> 1. Implementing Program 2. Providing the test items with transmittal reports 3. Ensuring all the part connected properly 4. Checking the test result |
| Avijit Saha Apu | Test Engineer | <ol style="list-style-type: none"> 1. Designing custom test procedures 2. Executing all the test cases about test planning 3. Prepare report on test activities 4. Checking the test result |

12. TESTING SCHEDULE

Time has been allocated within the project plan for the following testing activities. The specific dates and times for each activity are defined in the project plan timeline. The persons required for each process are detailed in the project timeline and plan as well. Schedule are written on Microsoft excel to trace report and future working purpose.

| | | | | | Date Day | | | | |
|---------------------|----------------|-----------------|-----------------|---------------------|---------------|-----------------|-----------------|-----------------|--|
| Test Title | Oct 9-13, 2022 | Oct 16-20, 2022 | Oct 23-27, 2022 | Oct 30-Nov 02, 2022 | Nov 6-9, 2022 | Nov 13-16, 2022 | Nov 20-23, 2022 | Nov 27-30, 2022 | |
| | S M T W T | S M T W T | S M T W T | S M T W T | S M T W T | S M T W T | S M T W T | S M T W T | |
| | | | | | | | | | |
| Documentation | S M T W | | | | | | | | |
| Design | | T S M T W T | | | | | | | |
| Test Plan | | | T S M T | | | | | | |
| Unit Testing | | | | W T S M T | | | | | |
| Integration Testing | | | | | W T S M | | | | |
| System Testing | | | | | | T W T S | | | |
| Acceptance Testing | | | | | | M T W | | | |
| Project Completion | | | | | | | T S M T W T | | |
| Feedback | | | | | | | | T S M T W T | |

13. PLANNING RISKS AND CONTINGENCIES

One open position exists in the Reassigned Sales administration staff at the moment. There may be delays in getting staff members to review all required documents and take part in the Acceptance test process due to this staff shortage. As a result, the appropriate dates for acceptance testing and reviews will be missed by client staff. There will be no attempt to circumvent any aspect of the testing and review procedures.

14. APPROVALS

| | |
|------------------------------|--------------------------|
| Project Sponsor | Bevan Saha |
| Development Management | MD. Mahabub Morshed Ijaz |
| EDI Project Manager | Avijit Saha Apu |
| RS Test Manager | Bevan Saha |
| ES Development Team Manager | MD. Mahabub Morshed Ijaz |
| Reassigned Sales | Avijit Saha Apu |
| Order Entry EDI Team Manager | Bevan Saha |