**5 – Prototype Testing**

**Testing Strategy**

Here is my testing strategy to test my prototype fully:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Number | Description | Type of Test | Test Data and variable | Expected Result | Actual Result | Evidence |
| 1 | Test if the checkbox and new member button are functional. | Acceptance Test | Check box tick | Navigation to new member page | Navigation to new member page | A screenshot of a computer  Description automatically generated with medium confidence |
| 2 | Test if I can create a new account in the window | Valid Data | Username – testuser  Password – test123 | I am expecting data to be inserted into the accounts database | After testing the create an account page it is clear that the data is not being inserted into the accounts database. This is because when developing my prototype, on the account creation screen, I did not add the ability to select an account type making it so you cannot add any new accounts. Something to keep in my mind when developing the final project. | Before  A screenshot of a computer  Description automatically generated with medium confidence  After  A screenshot of a computer  Description automatically generated with medium confidence |
| 3 | Testing If I can enter the customer side of the application. | Valid data | Username – testuser1  Password – test1  Account type – Type 1 | I am expecting to be greeted with a new screen saying login successful. After the inputs have been checked against the data already in the database. | After testing the customer account, it is safe to say that my validation and authentication system for my login process so far seems to be running as expected. | Before  A screenshot of a computer  Description automatically generated with medium confidence  After  A screenshot of a computer  Description automatically generated with medium confidence |
| 4 | Testing if I can enter the employee accounts | Valid Data | Username – testuser2  Password – test2  Account type – Type 2 | I am expecting the program to say login successful on a new screen if the data has been checked against the data in the database correctly. | After testing the employee account, it is safe to say that my validation and authentication system for my login process is running as expected, without any faults. | Before  A picture containing text, screenshot, software, computer icon  Description automatically generated  After  A screenshot of a computer  Description automatically generated with medium confidence |
| 5 | Testing if the will accept random data during its login process. | Invalid Data | Username- gfxhgadf  Password – sgfshg  Account type – Type 1 | I am expecting the program to throw an error if the user tries to input any data that is not recognised within the database. | The program during testing behaved exactly as I expected it to, it could not find the data in the entries within the database so it produced an error message and displayed it on screen for the user to see. | Before  A screenshot of a computer  Description automatically generated with medium confidence  After  A screenshot of a computer  Description automatically generated with medium confidence |

After conducting all the testing on my prototype, it is important that I look back on this document during the development of my final project as it will help me find some of the problems I have encountered so far. Overall though I am happy with the direction of my prototype as it has given me a good frame to base the rest of my project around.