**Test Plan**

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Test Type & Test Type ID: White Box - 05

**Requirement Addressed**

Assess the updated logic for login and signup attempts, ensuring seamless integration with the MongoDB database.

**Objective**

To ensure that the login and signup functionalities operate correctly with the new database integration, maintaining data integrity and security.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Ensure that the login attempt correctly validates user credentials against the database. | attempt\_login() | User credentials | * Successful login if credentials match a database entry. * Error dialog displayed if credentials are invalid. | The system successfully authenticated and granted access when the entered credentials matched the database entry, and appropriately displayed an error dialog when invalid credentials were provided. | Pass |
| Verify that the signup attempt correctly handles new user registration and checks for existing user IDs. | attempt\_signup() | New user credentials | * New user is registered if user ID is unique and passwords match. * Error dialog displayed if user ID is taken or passwords do not match. | The registration process successfully created a new user account when the user ID was unique and password fields matched, while correctly displaying error dialogs when attempting to use an existing user ID or when password entries did not match. | Pass |
| Ensure that the login attempt interacts correctly with the MongoDB database to retrieve user data. | find\_one() | User credentials | * Correct database query execution. * Accurate retrieval of user data for valid credentials. | The database query executed correctly and successfully retrieved accurate user data when valid credentials were provided for authentication. | Pass |
| Verify that the signup attempt interacts correctly with the MongoDB database to insert new user data. | find\_one() | New user credentials | * Correct database query execution. * Successful insertion of new user data for valid inputs. | The database query executed properly and successfully inserted the new user's data into the database when all input validations were met and the data format was correct. | Pass |
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