**Test Plan**

Tester: Noel Jules Cabahug Date designed: Nov 26, 2024, 11:27 PM

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Test Type & Test Type ID: White Box - 01

**Requirement Addressed**

Assess if the code logic and structure provide proper functionality for managing screen transitions, user authentication, and database interactions.

**Objective**

To ensure that the screen transitions, login and signup mechanisms, and database read/write logic, are implemented correctly and work as intended.

**Test cases**

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| **Description** | **Input field** | **Input value** | **Expected Output** | **Actual Output** | **Pass/Fail** |
| Test the login functionality for both valid and invalid user credentials by simulating input field values for username and password. Ensure appropriate transitions and messages occur. | attempt\_login() | * Valid credentials * Invalid credentials. | * For valid credentials: Transitions to the dashboard screen and prints "Logged in successfully." * For invalid credentials: Remains on the login screen and prints "Invalid Credentials." | * For valid credentials: Transition to the dashboard screen and prints "Logged in successfully" * For invalid credentials: Remains on the login screen and prints "Invalid Credentials" | Pass |
| Ensure the signup mechanism handles all cases correctly by simulating input for new users, existing users, and mismatched passwords. Validate database updates and error messages. | attempt\_signup() | * New user credentials * Existing user credentials * Mismatched passwords | * For new users: Prints "Successfully registered" and transitions to the login screen. * For existing users: Prints "Account already exists." * For mismatched passwords: Prints "Passwords do not match." | * For new users: Prints "Successfully registered" and transitions to the login screen. * For existing users: Prints "Account already exists" and remains on the signup form. * For mismatched passwords: Prints "Passwords do not match" and remains on the signup form. | Pass |
| Verify that the read\_user\_database method properly reads and parses the db.txt file into a dictionary without errors and outputs the correct data format. | read\_user\_database() | self | The method returns a dictionary representation of the database without throwing any errors, and all key-value pairs (username-password) are read correctly. | * Console Output: {‘AdminRoss’: ‘123’} * No errors were raised | Pass |
| Validate that the update\_user\_database method correctly appends new user credentials to the db.txt file without affecting existing data or causing errors. | Update\_user\_database(username, password) | * New username * New password | New credentials are appended to the db.txt file, and no errors are raised. | db.txt file updates as new credentials are appended with no errors. | Pass |
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