

Process MeNtOR 3.0 Uni-SEP

Crypto Trading Platform Implementation Document

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Tests:

Test ID	1-1
Category	User Login
Requirements Coverage	UC1-Successful-Login
Initial Condition	The application is opened
Procedure	<p>The list of steps required for this test case (e.g.</p> <ol style="list-style-type: none"><i>1. The user starts the login process</i><i>2. The user provides a username</i><i>3. The user provides a password</i><i>4. The system verifies the login information by comparing it with an encrypted JSON file</i><i>5. The given login credentials are valid and the user logs into the system successfully</i><i>6. User is shown and can now interact with the main program</i>
Expected Outcome	The login is successful and the user is shown and can now interact with the main program.
Notes	Username and password should not be longer than 32 characters. No special characters for security.

Test ID	1-2
Category	User Login
Requirements Coverage	UC1-Failed-Login
Initial Condition	The application is opened
Procedure	<p>The list of steps required for this test case (e.g.</p> <ol style="list-style-type: none"><i>1. The user starts the login process</i><i>2. The user provides a username</i><i>3. The user provides a password</i>

	<p>4. <i>The system verifies the login information by comparing it with an encrypted JSON file</i></p> <p>5. <i>The given login credentials are invalid and the user doesn't login successfully</i></p> <p>6. <i>User is shown an error message and cannot access the main UI. Program closes.</i></p>
Expected Outcome	The login is unsuccessful thus the user is presented with an error message and no access to the main program.
Notes	Username and password should not be longer than 32 characters for storage. No special characters for security.

Test ID	2-1
Category	Adding or Removing Broker
Requirements Coverage	UC2-Successful-Broker
Initial Condition	Program running and user logged in
Procedure	<p>The list of steps required for this test case (e.g.</p> <p>1. <i>User enters a broker profile</i></p> <p>2. <i>User clicks Add Row</i></p> <p>3. <i>User clicks Perform Trade</i></p> <p>4. <i>Close/Dismiss any messages</i></p> <p>5. <i>Select a broker row</i></p> <p>6. <i>User clicks Remove Row</i></p>
Expected Outcome	A broker profile should appear after the first “Add Row” operation. An error message indicating duplicate should appear after the second “Add Row” operation, while no additional broker profiles

	should appear. Finally, the only broker profile should disappear after the “Remove Row” operation.
Notes	None

Test ID	2-2
Category	Adding or Removing Broker
Requirements Coverage	UC2-Failed-Broker
Initial Condition	Program running and user logged in
Procedure	<p>The list of steps required for this test case (e.g.</p> <ol style="list-style-type: none"> 1. <i>User enters broker profile</i> 2. <i>User clicks Add Row</i> 3. <i>Broker is added</i> 4. <i>User enters a profile with the same broker name as above</i> 5. <i>User is notified with a pop-up that two Broker names are the same</i> 6. <i>Broker is not added</i> 7. <i>Close/Dismiss the error message</i> 8. <i>User clicks Perform Trade</i> 9. <i>User is notified with a pop-up that two Broker names are the same</i>
Expected Outcome	User is prompted with an error message and won't be allowed to Perform Trade until they change the broker name
Notes	None

Test ID	3-1
Category	Performing Trading
Requirements Coverage	UC3-Successful-Trade
Initial Condition	User has created at least one Broker object with a valid name, coin list and strategy.
Procedure	<p>The list of steps required for this test case (e.g.</p> <ol style="list-style-type: none"> <i>1. Program retrieves the current crypto prices</i> <i>2. Program will perform each strategy one by one</i> <i>3. For each broker, check if the user is able to use said strategy. This check is by seeing if the broker's coin list contains the coins needed in the strategy.</i> <i>4. All brokers are allowed to use their respective strategies, thus triggering the strategy.</i> <i>5. Program finishes all the trades, and is prepared to display in TC4.</i>
Expected Outcome	All trades are successfully performed and the program is prepared to display the trading action for all trading clients.
Notes	Program retrieves all selected coins in its array of listed coins.

Test ID	3-2
Category	Performing Trading
Requirements Coverage	UC3-Failed-Trade

Initial Condition	The user has created at least one Broker object with a valid name, coin list and strategy.
Procedure	<p>The list of steps required for this test case (e.g.</p> <ol style="list-style-type: none"> <i>1. Program retrieves the current crypto prices</i> <i>2. Program will perform each strategy one by one</i> <i>3. For each broker, check if the user is able to use said strategy. This check is by seeing if the broker's coin list contains the coins needed in the strategy.</i> <i>4. One broker cannot use their respective strategy. Display an error message stating this reason and prepare a flag to write a null transaction log on the table. Continue to check the rest</i> <i>5. Program finishes the remaining trades, and is prepared to display the logs in UC4.</i>
Expected Outcome	The remaining trades are successfully performed and the program is prepared to display the trading action for all trading clients.
Notes	Program retrieves all selected coins in its array of listed coins.

Meeting Log:

Date	Attendance	Task
March 25, 2022	All	Initial framework
March 27, 2022	All	Function implementation
March 30, 2022	All	Feature implementation and testing
April 5, 2022	All	Final tests