

Test Plan

FDM05

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1. Test Strategy

The project will take a Test-Driven Development (TDD) approach through a variety of methods.

Initial functionality will be created through the passing of automated unit tests to ensure each piece of functionality works as intended. This allows for fast detection and response of test failures in subsequent changes before spending time in the manual testing phase.

To accompany this, there will also be automated component testing on the server API to highlight issues of high-level interoperability of lower-level code. It will be much less focused and robust than unit testing but provides more cover for the whole software solution and its architecture. Combining the two approaches will reinforce the benefits provided by both, indicating any issues as they arise immediately upon making code changes.

End-to-end test coverage will be provided by manually testing each functional requirement in detail. The test cases can be run throughout development upon completion of the associated requirement, for fast validation of the functionality. This can be made simple by working on a Kanban board, where each requirement can be tested and tracked as appropriate through user stories. Upon project completion, each test case can be run again as a form of regression testing, to ensure end-to-end reliability for the application before submission.

The manual test cases are outlined in section 2, whereas the unit tests and component tests will be determined in the development process where appropriate. depending on the chosen technical approach.

2. Functional Test Scripts

2.1. Authentication

Test Case	Details
<i>ID & Name</i>	1.01. Account Creation
<i>Related Requirement(s)</i>	UA01, UA11
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill the form with valid details for a new account. 3. Submit the form.
<i>Expected Outcome</i>	An activation link is sent to the email address used for registration.

Test Case	Details
<i>ID & Name</i>	1.02. Account Activation
<i>Related Requirement(s)</i>	UA02
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Create a new account. 2. Await arrival of the activation email. 3. Click the link in the aforementioned email.
<i>Expected Outcome</i>	The user is subsequently directed to the application, logged in, and redirected to the dashboard.

Test Case	Details
<i>ID & Name</i>	1.03. Log In – Non-Activated Account
<i>Related Requirement(s)</i>	UA03
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Create a new account. 2. Immediately navigate to the login page. 3. Attempt to login with the newly created details.
<i>Expected Outcome</i>	The user is prompted with a message informing them to activate their account.

Test Case	Details
<i>ID & Name</i>	1.04. Log In – Activated Account
<i>Related Requirement(s)</i>	UA03
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Create a new account. 2. Follow the activation process in the subsequent email. 3. Log out to end the resulting session. 4. Attempt to login with the newly created details.
<i>Expected Outcome</i>	The user is subsequently logged in and redirected to the dashboard.

Test Case	Details
<i>ID & Name</i>	1.05. Log Out
<i>Related Requirement(s)</i>	UA04
<i>Pre-requisites</i>	User must be logged in to an active session.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Log in to a pre-existing test account. 2. Confirm a new session is created by observing the redirect to the dashboard. 3. Attempt to end the current session by selecting 'log out' from the navigation bar.
<i>Expected Outcome</i>	The user's session is ended and they are redirected to the home page.

Test Case	Details
<i>ID & Name</i>	1.06. Change Email Address
<i>Related Requirement(s)</i>	UA09
<i>Pre-requisites</i>	User must be logged in to an active session.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the user details page. 2. Fill in the email field with a new email address. 3. Submit the form.
<i>Expected Outcome</i>	A confirmation link is sent to the new email address.

Test Case	Details
<i>ID & Name</i>	1.07. Log In – Super User Account
<i>Related Requirement(s)</i>	UA10
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the login page, 2. Provide details for the super user account email and password. 3. Submit the login form.
<i>Expected Outcome</i>	The user is subsequently logged in and redirected to the dashboard with admin privileges.

Test Case	Details
<i>ID & Name</i>	1.08. Request Data Removal
<i>Related Requirement(s)</i>	UA16
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the user details page. 2. Select the 'Delete' button.
<i>Expected Outcome</i>	The user is logged out and login is now disallowed for this account.

Test Case	Details
<i>ID & Name</i>	1.09. Request Data Removal
<i>Related Requirement(s)</i>	UA17
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the admin dashboard page. 2. Select an account from the delete requests. 3. Delete the account.
<i>Expected Outcome</i>	The user should be removed from the delete requests, and all data should be removed from the database.

2.2. Input Validation

Test Case	Details
<i>ID & Name</i>	2.01. Registration – Invalid Name Format
<i>Related Requirement(s)</i>	IV01
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill in the form with valid details. 3. Provide an invalid value for the name field. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them of the correct name format.

Test Case	Details
<i>ID & Name</i>	2.02. Registration – Invalid Email Format
<i>Related Requirement(s)</i>	IV01
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill in the form with valid details. 3. Provide an invalid value for the email field. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them of the correct email format.

Test Case	Details
<i>ID & Name</i>	2.03. Registration – Invalid Password Format
<i>Related Requirement(s)</i>	IV01
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill in the form with valid details. 3. Provide an invalid value for the password field. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them of the correct password restrictions.

Test Case	Details
<i>ID & Name</i>	2.04. Registration – Invalid Username Format
<i>Related Requirement(s)</i>	IV01
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill in the form with valid details. 3. Provide an invalid value for the username field. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them of the correct username format.

Test Case	Details
<i>ID & Name</i>	2.05. Registration – Reserved Email
<i>Related Requirement(s)</i>	IV01
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill in the form with valid details. 3. Provide an email address that is already registered in the database. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them that the email provided is already in use.

Test Case	Details
<i>ID & Name</i>	2.06. Registration – Reserved Username
<i>Related Requirement(s)</i>	IV01
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the account creation page. 2. Fill in the form with valid details. 3. Provide a username that is already registered in the database. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them that the username provided is already in use.

Test Case	Details
<i>ID & Name</i>	2.07. Log In – Invalid Username
<i>Related Requirement(s)</i>	IV02
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the log in page. 2. Provide a username that is not registered in the database. 3. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them that the username provided is not in use.

Test Case	Details
<i>ID & Name</i>	2.08. Log In – Incorrect Password
<i>Related Requirement(s)</i>	IV02
<i>Pre-requisites</i>	User must not be logged in.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the log in page. 2. Provide a username that is already registered in the database. 3. Supply a password that does not match the one stored in the database for the given username. 4. Submit the form.
<i>Expected Outcome</i>	The user is prompted with a message informing them that the password provided is incorrect.

Test Case	Details
<i>ID & Name</i>	2.09. Create / Edit Company – Invalid Company Name Format
<i>Related Requirement(s)</i>	IV03
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Open the 'create' modal or the 'edit' modal for a company. 2. Supply an invalid company name. 3. Submit the form.
<i>Expected Outcome</i>	The admin is prompted with a message informing them of the correct company name format.

Test Case	Details
<i>ID & Name</i>	2.10. Create / Edit Company – Invalid Company Symbol Format
<i>Related Requirement(s)</i>	IV03
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Open the 'create' modal or the 'edit' modal for a company. 2. Supply an invalid company symbol. 3. Submit the form.
<i>Expected Outcome</i>	The admin is prompted with a message informing them of the correct company symbol format.

Test Case	Details
<i>ID & Name</i>	2.11. Create / Edit Company – Reserved Company Name
<i>Related Requirement(s)</i>	IV03
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Open the 'create' modal or the 'edit' modal for a company. 2. Supply a company name that is already in use. 3. Submit the form.
<i>Expected Outcome</i>	The admin is prompted with a message informing them that a company already exists with the given name.

Test Case	Details
<i>ID & Name</i>	2.12. Create / Edit Company – Reserved Company Symbol
<i>Related Requirement(s)</i>	IV03
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 3. Open the 'create' modal or the 'edit' modal for a company. 4. Supply a company symbol that is already in use. 5. Submit the form.
<i>Expected Outcome</i>	The admin is prompted with a message informing them that a company already exists with the given symbol.

2.3. Broker Account Verification

Test Case	Details
ID & Name	3.01. Not Verified – Account Restrictions
Related Requirement(s)	UA06
Pre-requisites	User must be logged in to a non-verified user account.
Execution Steps	<ol style="list-style-type: none"> 1. Observe the account balance on the navigation bar. 2. Observe the companies in the dashboard.
Expected Outcome	<ul style="list-style-type: none"> • The account balance should be £0. • The buy button should be disabled for company shares.

Test Case	Details
ID & Name	3.02. Not Verified – Credit Card Details
Related Requirement(s)	UA06, UA07
Pre-requisites	User must be logged in to a non-verified user account.
Execution Steps	<ol style="list-style-type: none"> 1. Navigate to the user details page. 2. Observe the stored credit card information.
Expected Outcome	The stored credit card details should be empty.

Test Case	Details
ID & Name	3.03. Verification Process
Related Requirement(s)	UA06, UA08
Pre-requisites	User must be logged in to a non-verified user account.
Execution Steps	<ol style="list-style-type: none"> 1. Navigate to the user details page. 2. Fill in the credit card form with valid details. 3. Submit the form. 4. Observe the account balance on the navigation bar.
Expected Outcome	The account balance should be £50,000.

2.4. Stock Trading

Test Case	Details
ID & Name	4.01. View Share Pricing
Related Requirement(s)	ST01
Pre-requisites	User must be logged in to a user account.
Execution Steps	<ol style="list-style-type: none"> 1. Navigate to the dashboard. 2. Observe the list of companies.
Expected Outcome	<p>Each company should display unique information for the following:</p> <ul style="list-style-type: none"> • Close • Open • High • Low • Volume • Gains

Test Case	Details
<i>ID & Name</i>	4.02. Purchase Shares
<i>Related Requirement(s)</i>	ST02
<i>Pre-requisites</i>	User must be logged in to a verified user account with sufficient available funds to purchase shares.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the dashboard. 2. Observe the current available funds and portfolio value. 3. Observe the currently held shares for any given company. 4. Open the 'buy' modal for the company. 5. Purchase single / multiple shares. 6. Submit the modal. 7. Observe the currently held shares for the company. 8. Observe the current available funds and portfolio value.
<i>Expected Outcome</i>	<ul style="list-style-type: none"> • The available funds should have decreased by the current share price (multiplied by the number of shares purchased). • The portfolio value should have increased by the current share price (multiplied by the number of shares purchased). • The currently held shares for the company should have increased by the number of shares purchased.

Test Case	Details
<i>ID & Name</i>	4.03. Sell Shares
<i>Related Requirement(s)</i>	ST03
<i>Pre-requisites</i>	User must be logged in to a verified user account with a sufficient portfolio size.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the dashboard. 2. Observe the current available funds and portfolio value. 3. Observe the currently held shares for any given company, where the value is greater than 0. 4. Open the 'sell' modal for the company. 5. Sell single / multiple shares. 6. Submit the modal. 7. Observe the currently held shares for the company. 8. Observe the current available funds and portfolio value.
<i>Expected Outcome</i>	<ul style="list-style-type: none"> • The available funds should have increased by the current share price (multiplied by the number of shares purchased). • The portfolio value should have decreased by the current share price (multiplied by the number of shares purchased). • The currently held shares for the company should have decreased by the number of shares purchased.

Test Case	Details
<i>ID & Name</i>	4.04. Share Sales Disabled
<i>Related Requirement(s)</i>	ST03
<i>Pre-requisites</i>	User must be logged in to a verified user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the dashboard. 2. Find a company where the currently held shares is 0. 3. Observe the 'sell' option for the given company.
<i>Expected Outcome</i>	The 'sell' button should be disabled.

Test Case	Details
<i>ID & Name</i>	4.05. Transaction History
<i>Related Requirement(s)</i>	ST07
<i>Pre-requisites</i>	User must be logged in to a verified user account with sufficient transaction history.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the transactions page. 2. Observe the latest transactions. 3. Navigate to the dashboard page. 4. Make any valid transaction. 5. Return to the transaction page. 6. Observe the latest transactions.
<i>Expected Outcome</i>	The new transaction should have appeared in the transaction history.

Test Case	Details
<i>ID & Name</i>	4.06. Admin - View Share Pricing
<i>Related Requirement(s)</i>	ST08
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the dashboard. 2. Observe the list of companies.
<i>Expected Outcome</i>	<p>Each company should display unique information for the following:</p> <ul style="list-style-type: none"> • Close • Open • High • Low • Volume • Gains

Test Case	Details
<i>ID & Name</i>	4.07. Edit Company – Company Name
<i>Related Requirement(s)</i>	ST09
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Open the 'edit' modal for a company. 2. Supply a valid company name that is not already in use. 3. Submit the form. 4. Observe the list of companies.
<i>Expected Outcome</i>	The old company name should have been replaced by the new given name.

Test Case	Details
<i>ID & Name</i>	4.08. Edit Company – Company Symbol
<i>Related Requirement(s)</i>	ST09
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Open the 'edit' modal for a company. 2. Supply a valid company symbol that is not already in use. 3. Submit the form. 4. Observe the list of companies.
<i>Expected Outcome</i>	The old company symbol should have been replaced by the new given symbol.

Test Case	Details
<i>ID & Name</i>	4.09. Create Company
<i>Related Requirement(s)</i>	ST10, ST11
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the dashboard. 2. Open the 'create' modal. 3. Fill in the form with a valid company name and symbol. 4. Submit the form. 5. Observe the company list.
<i>Expected Outcome</i>	<p>The new company should be found in the company list with the following values generated:</p> <ul style="list-style-type: none"> • Close • Open • High • Low • Volume • Gains

Test Case	Details
<i>ID & Name</i>	4.10. Delete Company
<i>Related Requirement(s)</i>	ST12
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Open the 'edit' modal for a company. 2. Select the 'delete' option. 3. Observe the list of companies.
<i>Expected Outcome</i>	The given company should not be found in the company list.

Test Case	Details
<i>ID & Name</i>	4.11. Search Company Name (Full) - Existing
<i>Related Requirement(s)</i>	ST04
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Type an existing company name in full into the search field. 2. Observe the list of companies.
<i>Expected Outcome</i>	The given company should be the only stock visible in the company list.

Test Case	Details
<i>ID & Name</i>	4.12. Search Company Name (Partial) - Existing
<i>Related Requirement(s)</i>	ST04
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Type the first 3 letters of an existing company name into the search field. 2. Observe the list of companies.
<i>Expected Outcome</i>	The given company should visible in the company list.

Test Case	Details
<i>ID & Name</i>	4.13. Search Company Name - Non-Existing
<i>Related Requirement(s)</i>	ST04
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Type a non-existing company name in full into the search field. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be empty.

Test Case	Details
<i>ID & Name</i>	4.14. Search Company Symbol (Full) - Existing
<i>Related Requirement(s)</i>	ST04
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Type an existing company symbol in full into the search field. 2. Observe the list of companies.
<i>Expected Outcome</i>	The given company should be the only stock visible in the company list.

Test Case	Details
<i>ID & Name</i>	4.15. Search Company Symbol (Partial) - Existing
<i>Related Requirement(s)</i>	ST04
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Type the first 1 letter of an existing company symbol into the search field. 2. Observe the list of companies.
<i>Expected Outcome</i>	The given company should visible in the company list.

Test Case	Details
<i>ID & Name</i>	4.16. Search Company Symbol - Non-Existing
<i>Related Requirement(s)</i>	ST04
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Type a non-existing company symbol in full into the search field. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be empty.

Test Case	Details
<i>ID & Name</i>	4.17. Filter Company List – Gains
<i>Related Requirement(s)</i>	ST05
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'gains' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should only show stocks which have increased in value over the past trading day.

Test Case	Details
<i>ID & Name</i>	4.18. Filter Company List – Losses
<i>Related Requirement(s)</i>	ST05
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'losses' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should only show stocks which have decreased in value over the past trading day.

Test Case	Details
<i>ID & Name</i>	4.19. Sort Company List – Symbol (Ascending)
<i>Related Requirement(s)</i>	ST06
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'Symbol (Asc)' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be sorted alphabetically ascending by symbol.

Test Case	Details
<i>ID & Name</i>	4.20. Sort Company List – Symbol (Descending)
<i>Related Requirement(s)</i>	ST06
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'Symbol (Dsc)' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be sorted alphabetically descending by symbol.

Test Case	Details
<i>ID & Name</i>	4.21. Sort Company List – Price (Ascending)
<i>Related Requirement(s)</i>	ST06
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'Price (Asc)' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be sorted ascending by price.

Test Case	Details
<i>ID & Name</i>	4.22. Sort Company List – Price (Descending)
<i>Related Requirement(s)</i>	ST06
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'Price (Dsc)' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be sorted descending by price.

Test Case	Details
<i>ID & Name</i>	4.23. Sort Company List – Gains (Ascending)
<i>Related Requirement(s)</i>	ST06
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'Gains (Asc)' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be sorted ascending by gains over the last trading day.

Test Case	Details
<i>ID & Name</i>	4.24. Sort Company List – Gains (Descending)
<i>Related Requirement(s)</i>	ST06
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'Gains (Dsc)' from the filter list. 2. Observe the list of companies.
<i>Expected Outcome</i>	The company list should be sorted descending by gains over the last trading day.

2.5. User Account Activation / De-Activation

Test Case	Details
<i>ID & Name</i>	5.01. De-Activate User Account (Admin)
<i>Related Requirement(s)</i>	UA12
<i>Pre-requisites</i>	User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the admin dashboard page. 2. Search for the user by email or username. 3. Select a re-activation time and date. 4. Provide a de-activation reason. 5. De-activate the account. 6. Log out 7. Attempt to log in with the de-activated user's credentials.
<i>Expected Outcome</i>	A message should appear on screen including the selected de-activation reason and re-activation date.

Test Case	Details
<i>ID & Name</i>	5.02. De-Activate User Account (No Funds)
<i>Related Requirement(s)</i>	UA13
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Empty the account balance by buying shares. 2. Only sell shares for a loss. 3. Repeat steps 1 and 2 until the account balance has completely depleted.
<i>Expected Outcome</i>	The user should be logged out and subsequently unable to login again.

Test Case	Details
<i>ID & Name</i>	5.03. Request User Account Re-Activation
<i>Related Requirement(s)</i>	UA14
<i>Pre-requisites</i>	User must be logged out.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the login page. 2. Select 'trouble logging in'. 3. Complete the form with details of a de-activated account. 4. Login to the admin 'super user' account. 5. Navigate to the admin dashboard page.
<i>Expected Outcome</i>	The activation request for the given account should be present in the 're-activation' list.

Test Case	Details
<i>ID & Name</i>	5.04. Re-Activate User Account
<i>Related Requirement(s)</i>	UA15
<i>Pre-requisites</i>	Complete Case 5.03. User must be logged in to the admin 'super user' account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Navigate to the admin dashboard page. 2. Re-activate an account in the 're-activation' list. 3. Log out. 4. Login using the re-activated account details.
<i>Expected Outcome</i>	The user should be logged in to the newly re-activated account.

2.6. Reports

Test Case	Details
<i>ID & Name</i>	6.01. Held Shares Report (.xml)
<i>Related Requirement(s)</i>	RT01
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Buy any share of any stock. 2. Open the portfolio menu from the navigation bar. 3. Select 'download user report'. 4. Select '.xml'. 5. Select 'download'.
<i>Expected Outcome</i>	A browser download should begin for a .xml file containing the desired report information for the recently bought stock.

Test Case	Details
<i>ID & Name</i>	6.02. Held Shares Report (.csv)
<i>Related Requirement(s)</i>	RT01
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Buy any share of any stock. 2. Open the portfolio menu from the navigation bar. 3. Select 'download user report'. 4. Select '.csv'. 5. Select 'download'.
<i>Expected Outcome</i>	A browser download should begin for a .csv file containing the desired report information for the recently bought stock.

Test Case	Details
<i>ID & Name</i>	6.03. Custom Stock Report (.xml)
<i>Related Requirement(s)</i>	RT02
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'download stock report' from below the stock list. 2. Select the desired stocks from the list. 3. Select '.xml'. 4. Select 'download'.
<i>Expected Outcome</i>	A browser download should begin for a .xml file containing the desired report information for the selected stocks.

Test Case	Details
<i>ID & Name</i>	6.04. Custom Stock Report (.csv)
<i>Related Requirement(s)</i>	RT02
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'download stock report' from below the stock list. 2. Select the desired stocks from the list. 3. Select '.csv'. 4. Select 'download'.
<i>Expected Outcome</i>	A browser download should begin for a .csv file containing the desired report information for the selected stocks.

Test Case	Details
<i>ID & Name</i>	6.05. Full Stock Report (.xml)
<i>Related Requirement(s)</i>	RT03
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'download stock report' from below the stock list. 2. Check the 'select all' box. 3. Select '.xml'. 4. Select 'download'.
<i>Expected Outcome</i>	A browser download should begin for a .xml file containing the desired report information for all stocks.

Test Case	Details
<i>ID & Name</i>	6.06. Full Stock Report (.csv)
<i>Related Requirement(s)</i>	RT03
<i>Pre-requisites</i>	User must be logged in to a user account.
<i>Execution Steps</i>	<ol style="list-style-type: none"> 1. Select 'download stock report' from below the stock list. 2. Check the 'select all' box. 3. Select '.csv'. 4. Select 'download'.
<i>Expected Outcome</i>	A browser download should begin for a .csv file containing the desired report information for all stocks.