

Functional Requirement Specification

FDM05

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This document contains a list of translated functional requirements from the project specification in the form of user stories, along with their dependencies.

1. User Accounts

ID	Description	Dependencies
UA01	As a user I should be able to create an account.	N/A
UA02	As a user I should receive confirmation of account creation, and subsequently receive an activation link via email.	UA01
UA03	As a user I should be able to log in to an activated account.	UA02
UA04	As a user I should be able to log out of the system, ending my session.	UA03
UA05	As a user I should be able to provide credit card details to verify my identity.	UA03
UA06	As a user I should receive £50,000 credit upon verifying my identity.	UA05
UA07	As a user I should be able to view the details of my account.	UA03
UA08	As a user I should be able to modify the details of my account.	UA07
UA09	As a user I should receive a new confirmation link when modifying my email address.	UA08
UA10	As an admin I should be able to log into the system with the 'super user' account.	N/A
UA11	As an admin I should receive an email notification when a new user account is created.	UA01
UA12	As an admin I should be able to de-activate the account of any user for a period of time.	UA10
UA13	As a user my account should be de-activated when I cannot afford to buy any more shares AND I don't hold any shares in my account	UA06
UA14	As a user I should be able to request re-activation of a de-activated account.	UA12, UA13
UA15	As an admin I should be able to re-activate the account of any user upon request.	UA14
UA16	As a user I can make a request to an administrator for my details to be completely removed from the system.	UA03
UA17	As an admin I should be able to remove the entirety of a user's details from the system upon request.	UA16

2. Stock Trading

ID	Description	Dependencies
ST01	As a user I should be able to view the current stock price for all companies.	UA03
ST02	As a user I should be able to purchase shares of a stock, provided that I have enough credit to do so AND there are enough available shares to buy AND I have verified my identity.	UA05, UA06
ST03	As a user I should be able to sell shares of a stock, provided that I have shares to sell.	ST01
ST04	As a user I should be able to search the list of companies by company name or symbol.	ST01
ST05	As a user I should be able to filter the list of companies by recent price action.	ST01
ST06	As a user I should be able to sort the list of companies by company name or symbol OR stock price OR stock gains.	ST01
ST07	As a user I should be able to view details of the previous transactions I have made.	ST02, ST03
ST08	As an admin I should be able to view details for all companies.	UA10
ST09	As an admin I should be able to edit details for all companies.	ST08
ST10	As an admin I should be able to add new companies.	ST08
ST11	As an admin I should see a set of stock values created on addition of a new company.	ST10
ST12	As an admin I should be able to delete company details from the system.	ST08

3. Reporting Tools

ID	Description	Dependencies
RT01	As a user I should be able to generate a .xml or .csv report on my currently held shares ordered by company name.	ST02
RT02	As a user I should be able to generate a .xml or .csv report on details from a list of chosen company stock.	ST01
RT03	As a user I should be able to generate a .xml or .csv report on a complete list of companies in ascending or descending order of the stock value.	ST01

4. Input Validation

ID	Description	Dependencies
IV01	As a user I should be informed of any input validation errors upon registration.	UA01
IV02	As a user I should be notified of attempts to login with invalid values with an error message detailing that my username or password is incorrect.	UA03
IV03	As an admin should be notified of attempts to create a new company with an invalid company name or symbol.	ST10