

User Stories + Sprint Plan

User Stories

Title	User Story	Acceptance Criteria	Priority	Estimate (story points)
GUI – Login Screen	As a User, I want to be able to login via a nice, friendly GUI to access the client software, So that I am able to effectively interface with the client software.	Given I open the client via its executable, When I look at my computer screen, Then I should see a GUI that I can recognise as the login for the marketplace software and login to the software.	1	1
GUI – Order Interaction	As a User, I want to be able to interact with my orders via a nice, friendly GUI to access the client software, So that I am able to effectively interface with the client software.	Given I am logged into the client and click onto the order interaction screen, When I look at my computer screen, Then I should see a GUI that I can recognise as the order interaction screen for the marketplace software and use it to perform Trades between OUs.	1	2
GUI – Admin Options Screen	As an IT Admin User, I want to be able to execute admin level actions via a nice, friendly GUI to access the client software, So that I am able to effectively interface with the client software.	Given I open the client via its executable and click onto the admin options screen, When I look at my computer screen, Then I should see a GUI that I can recognise as marketplace software and use to execute admin level actions.	1	2

GUI – User Details Screen	As a User, I want to be able to change my password via a nice, friendly GUI to access the client software, So that I am able to effectively interface with the client software.	Given I am logged into the client and click onto the user details screen, When I look at my computer screen, Then I should see a GUI that I can recognise as the user details screen for the marketplace software and use it to change my password.	1	1
Login	As a User, I want to log in to the client software, So that I can begin access the functions available in the client software.	Given I open the client, When I type in my credentials and click login, Then I should be able to access everything within my User permissions.	1	2
Order Listing	As a User, I want to be able to create a Trade Order Listing, So that I can trade resources between my Organisational Units (OU) and other OUs.	Given my OU has the available resources/credits, When I fill out the details of the trade order and click create, Then I should see the order on the marketplace with correct details.	1	2
Order Removal	As a User, I want to be able to remove a Trade Order Listing made by my OU, So that the Trade Order will no longer be completed on the marketplace.	Given I can see the Trade Order is active on the marketplace and created by my OU, When I click on the Trade Order and click the remove Trade Order button, Then the Trade Order should be removed from the marketplace listings.	1	1
Automatic Order Completion	As a User, I want my Trade Orders to be completed according to	Given I have created a Trade Order,	1	3

	<p>the rules of the marketplace and automatically, So that the Trade Orders complete within the limits that I have set in the create Trade Order Listing form.</p>	<p>When other Trade Orders are created that can match with my Trade in all regards, Then I want my Trade Order to be automatically matched with those Trade Orders in a timely fashion.</p>		
Trade Limits	<p>As a User, I want to be able to list as many trades and as many commodities as I wish on the marketplace, So that I am not prevented from acquiring all of the resources my OU requires to operate.</p>	<p>Given I have a User account and am assigned an OU with many Trade Orders, When go to create a Trade Order Listing, Then I should not be prevented from making one because of the number of Trade Orders on the marketplace/the number of commodities in my Trade Listing.</p>	1	1
Create OU	<p>As an IT Admin User, I want to be able to create an OU, So that the OUs are available when they are needed by the business.</p>	<p>Given I have IT Admin account permissions, When I click create OU and fill out the details, Then I should see a new the OU available to be assigned to Users when I next assign OUs to Users.</p>	1	1
Manage OU Resources	<p>As an IT Admin User, I want to be able to edit the number of credits and assets an OU owns, So that the number they own in the system properly reflect reality.</p>	<p>Given I have IT Admin account permissions, When I click on the option to edit an OU's credits/assets numbers and type in the changes, Then I should see the new numbers changed in the OU's details.</p>	1	1

Manage Asset Types	As an IT Admin User, I want to be able to create/remove Asset types from the system, So that certain Asset types can be added/removed from the system.	Given I have IT Admin account permissions, When I click on the button to create/remove an Asset type, Then I should see the Asset type created/removed from the system.	1	2
Manage User Accounts	As an IT Admin User, I want to be able to add new Users to the system and manage their details/permissions, So that new Users can log in to the system and access the appropriate functions to their permission levels.	Given I have IT Admin account permissions, When I click on the option to create/manage a User and enter their details/permissions, Then I should see a new User in the system, with the correct details, that can access everything within their assigned permissions.	1	1
User Limits	As an IT Admin User, I want to be able to create as many Users as I need to without any artificial limits, So that I can meet the demands of the organisation.	Given I have IT Admin account permissions, When I click on the option to create a new User, Then I should not be prevented from making a new User because of an artificial limit.	1	1
Credit and Asset Tracking	As a User, I want the numbers of the assets and the credits of the OUs to be stored in the database and updated accordingly when Trades are completed, So that I am able to know exactly how many resources my OU possesses.	Given I am a User who is a part of an OU which has active Trade Orders, When those Trade Orders are matched and completed, Then I want to be able to see the updated numbers of assets and credits listed in the system.	1	2

Password Encryption	As the IT Security Head, I want the passwords that are stored in the database to be stored in an encrypted format, So that the User accounts/details are protected in the case of a successful attack on the business' databases.	Given I am an IT Security Head, When I look at the table containing the passwords in the database, Then I should only see encrypted passwords and other appropriate information in the database.	1	3
User Info Storage	As a systems admin, I want the following User information to be stored in a table in the database: username, password, account type, OU, So that this information is easily backed up.	Given I am a systems admin and we have Users registered in the system, When I look at the database tables for User information, Then I should see the User information: username, password, account type, OU, in a table.	1	2
OU Info Storage	As a systems admin, I want the following OU information to be stored in a table in the database: OU name, credits, assets, quantity of these assets, So that this information is easily backed up.	Given I am a systems admin and we have OUs registered in the system, When I look at the database tables for OU information, Then I should see the OU information: OU name, credits, assets, quantity of these assets, OU, in a table.	1	2
Asset Types Storage	As a systems admin, I want the following information on Asset Types to be stored in a table in the database: asset names, So that this information is easily backed up.	Given I am a systems admin and we have Asset Types registered in the system, When I look at the database tables for information on Asset Types, Then I should see the following information	1	2

		on Asset Types: asset names, in a table.		
Current Trades Storage	As a systems admin, I want the following information on current Trades to be stored in a table in the database: BUY/SELL, OU, asset name, quantity, price, date, So that this information is easily backed up.	Given I am a systems admin and we have active Trades listed in the system, When I look at the database tables for information on the current Trades, Then I should see the following information on the current Trades: BUY/SELL, OU, asset name, quantity, price, date, in a table.	1	2
Client-Server Model	As the Project Manager, I want one server running that keeps track of the marketplace and the databases which each of the clients connect to, So that everything is kept in one place.	Given I am the Project Manager, When I look at the topology of the network, Then I should see that there is only one server that all the clients on the server are connecting to.	1	4
Fractional Order Completion	As a User, I want my Trade Orders to match with other Trade Orders that have less/more quantities of assets than my Trade Order, partially completing, So that my Trade Orders are completed as fast as possible.	Given my Trade Order is currently on the marketplace and there are other Trade Orders that match my order but have less/more quantities of assets, When the Trade Orders match, Then I want my Trade Order/the other Trade Order to be partially completed and stay on the marketplace.	1	2
Order Viewing	As a User, I want to be able to see all BUY/SELL orders on the marketplace,	Given I am a registered User and there are Trade Orders on the marketplace,	1	2

	So that I am able to check on the prices/demand/supply of the resources.	When I click the option to look at current Trade Orders, Then I should see a list of all Trade Orders currently on the marketplace.		
Order Searching	As a User, I want to be able to search for BUY/SELL orders with specific characteristics, So that I am able to find the BUY/SELL orders that match my wants.	Given I am a registered User and there are Trade Orders on the marketplace, When I click on the option to search for current Trade Orders and check what characteristics I want, Then I should see a list of Trade Orders that match my specifications.	2	3
Credit & Asset Trade Restrictions	As a leader of an OU, I want Users that are a part of my OU to only be able to trade credits/assets that the OU currently owns, So that my OU does not have the risk of going into debt.	Given I am a registered User and my OU has insufficient credits/assets, When I click on the option to create a new Trade Order and fill out the details, Then I should fail to create the order because my OU has insufficient credits/assets.	2	2
Balance Checking	As a User, I want the ability to check the current balance of my OU's credits and assets, So that I know how many credits/assets my OU owns.	Given I am a registered User assigned to an OU, When I click on the option to check my OU's balance, Then I should see how many credits and how much of each asset my OU currently owns.	2	1

Trade Info Storage	As a systems admin, I want the following Trade History information to be stored in a table in the database: BUY/SELL, OU, asset name, quantity, price, date, So that this information is easily backed up.	Given I am a systems admin and we have Trades that have been completed, When I look at the database tables for information on Trade History, Then I should see the following information on the completed Trades: BUY/SELL, OU, asset name, quantity, price, date, in a table.	2	2
Configuration	As a systems admin, I want the client software to grab the servers IP address and port number, and the server to grab its port number from a configuration file, So that there is less hassle and difficulty in running the client/server software.	Given I have client/server software and a config file on my machine, When I open the software, Then the client software should get the server IP address and port number, and the server software should get the server should get its port number, from the configuration file.	2	1
Password Management	As a User, I want to be able to change my password without the assistance of an IT admin, So that I do not have to go through the hassle of contacting an IT admin.	Given I am a registered User and am logged into the client software, When I click the option to change my password and fill out the password change details, Then my password should be changed to a new password of my choosing.	2	2
Trade History	As a User, I want to be able to see the price history of an asset displayed as a graph,	Given I am a registered User, When I click on an asset in the marketplace,	3	2

	So that I can infer as to how I should set the price of my current trades.	Then I should be able to see its price history in the form of a graph.		
Trade Notifications	As a User, I want a notification to be sent to me whenever one of my Trade Orders are fulfilled, So that I know when I have received the assets/credits from the Trade.	Given I am a registered User and have a Trader Order on the marketplace, When my Trade Order is fulfilled, Then I should receive a notification letting me know that one of my Trade Orders is complete.	3	2

Sprint Plan

Developers:

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Done

Sprint 1

Week	9	Story Points	10	Story Points
	GUI – Order Interaction	2	Manage Asset Types	2
	Login	2	Manage User Accounts	1
	Order Listing	2	User Limits	1
	Order Removal	1	Credit and Asset Tracking	2
	Automatic Order Completion	3	Password Encryption	3
	Trade Limits	1	User Info Storage	2
	Create OU	1	OU Info Storage	2
	Manage OU Resources	1	Asset Types Storage	2
Total		13		15

Sprint 2

Week	11	Story Points	12	Story Points
	Current Trades Storage	2	Trade Info Storage	2
	Client-Server Model	4	Configuration	1
	Fractional Order Completion	2	Password Management	2
	Order Viewing	2	Trade History	2
	Order Searching	3	Trade Notifications	2
	Credit & Asset Trade Restrictions	2	GUI – Login Screen	1
	Balance Checking	1	GUI – Admin Options Screen	2
			GUI – User Details Screen	1
Total		16		13

