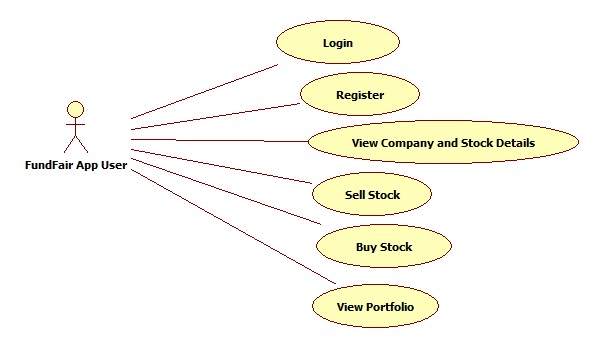
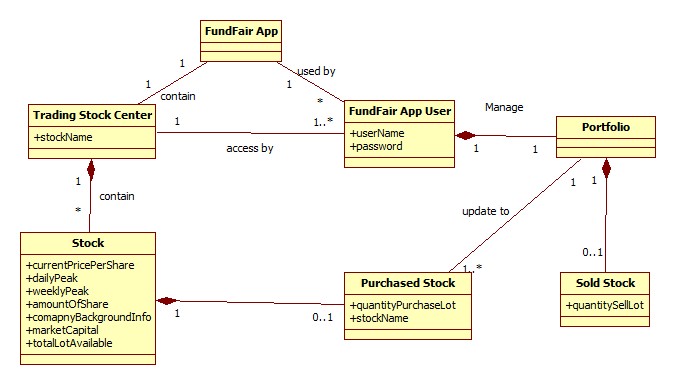
|  |  |
| --- | --- |
| Use Case | View Company and Stock Details |
| Actor(s) | FundFair App User |
| Description | FundFair App User can view a list of stock and descriptions for each stock and company to make decision and analysis based on the details given. |

|  |  |
| --- | --- |
| Use Case | Buy Stock |
| Actor(s) | FundFair App User |
| Description | After viewing the stock, FundFair App User can buy any stock based on their decision. |

|  |  |
| --- | --- |
| Use Case | View Portfolio |
| Actor(s) | FundFair App User |
| Description | FundFair App User can view their profit and loss every time they end a round. |

|  |  |
| --- | --- |
| Use Case | Sell Stock |
| Actor(s) | FundFair App User |
| Description | FundFair App User wants to sell stock that bought. |





Expanded Use Case

Expanded Use Case – Login Account

|  |  |
| --- | --- |
| **Use Case 1** | Login Account |
| **Goal in Context** | To allow app users to login FundFair application with their accounts |
| **Primary Actor**  **Secondary Actor** | FundFair App User  (none) |
| **Trigger** | When the FundFair App User wants to login to FundFair application. |
| **Related Use Cases** |  |
| **Typical Course of Events**  **Actor Action** | **System Response** |
| 1.      This use case begins when FundFair App User have an account and wants to login to the FundFair application. | 2. A login form will be displayed for user to enter userID and password. |
| 3.      The FundFair App User enters the userID, password. | 4. The system will validate the userID and password entered and pop up a message showing “Login Successful”. $100,000 of virtual money will be allocated to the user immediately after the login. |
| Alternative Course of Events  Line 3a. If userID is not found or it is found but does not match with the password, cancel the use case.  Line 3b. If the system found the entered information is matched with an existing user account, the user data of that particular account will be loaded. | |

Expanded Use Case – Register

|  |  |
| --- | --- |
| **Use Case 2** | Register |
| **Goal in Context** | To allow a non-app user to create for an account to access to FundFair application. |
| **Primary Actor**  **Secondary Actor** | FundFair App User  (none) |
| **Trigger** | When the FundFair App User wants to login but they do not have a FundFair account. |
| **Related Use Cases** |  |
| **Typical Course of Events**  **Actor Action** | **System Response** |
| 1.      This use case begins when the user is not logged in to the application and goes to the login page. | 2. The system prompts the user to enter a username and password for login and display a button to register new account. |
| 3.      The user selects registration option by tapping on the “Sign up” button. | 4. The system will prompt user to enter username and password. |
| 5. The user enters the username and password. | 6. The system will verify username and password entered by user and creates account. A registration successful message will be displayed. |
| Alternative Course of Events       Line 4a. If user tap on “Cancel” button, cancel the use case.  Line 6a. If the username and password entered by user is not verified by the system  Line 3b. If the system found the entered information is matched with an existing user account, the user data of that particular account will be loaded. | |

Expanded Use Case – View Company and Stock Details

|  |  |
| --- | --- |
| **Use Case 3** | View Company and Stock Details |
| **Goal in Context** | To allow users to view a list of stock with details, the price and the background of company. |
| **Primary Actor**  **Secondary Actor** | FundFair App User  (none) |
| **Trigger** | When the FundFair App User wants to view stocks available and tap on the “Trading Centre” button. |
| **Related Use Cases** |  |
| **Typical Course of Events**  **Actor Action** | **System Response** |
| 1.   This use case begins when FundFair App User want to view stock details, price and company background. |  |
| 2.  The FundFair App User tap on “Trading Stock Center”. | 3. The system will display stocks that available. |
| 4.   FunFair App User select a stock from “Trading Stock Center”. | 5. Company information will be display for example, currentPricePerShare, dailyPeak, weeklyPeak, amountOfShare, companyBackgroundInfo, totalLotAvailable and marketCapital. |
| Alternative Course of Events | |

Expanded Use Case – Buy Stock

|  |  |
| --- | --- |
| Use Case 4 | Buy Stock |
| Goal in Context | Allow FundFair App User to buy stock. |
| Primary Actor  Secondary Actor | FundFair App User    (none) |
| Trigger | When the FundFair App User wants to buy stock after viewing the stock details and tap on the “Place Buy Order” button. |
| Related Use Cases | View Company and Stock Details |
| Typical Course of Events  Actor Action | System Response |
| 1. This use case begins when FundFair App User wants to buy stock. |  |
| 2. The FundFair App User tap on “Place Buy Order” button. | 3. The system will prompt the user to select a number of lot they want to buy. |
| 4. FundFair App User selects a number of Lot they want to buy and proceed. | 5. A confirmation message box will be popped out to get user confirmation. |
| 6. FundFair App user tap on “Yes”. | 7. The system will calculate the totalPrice and a message “Successful” will be shown after the system finish processing the request. The buy history will be updated in the portfolio. |
| Alternative Course of Events  Line 4a. If number of lot entered by the user exceeds the total lot available, prompts the user to re-enter a valid amount.  Line 6a. If app user tap on “No”, cancel the use case.  Line 7a. If the totalPrice exceeds the balance of virtual money owned by the user, prompts the user to re-enter a valid amount. | |

Expanded Use Case – View Portfolio

|  |  |  |
| --- | --- | --- |
| Use Case 5 | View Portfolio | |
| Goal in Context | To display stocks details that user bought and sold. | |
| Primary Actor  Secondary Actor | FundFair App User    (none) | |
| Trigger | When the FundFair App User wants to view their portfolio. | |
| Related Use Cases |  | |
| Typical Course of Events  Actor Action | System Response | |
| 1. This use case begins when FundFair App User wants to view or track the stock they bought/sold. | |  |
| 2. The FundFair App User tap on “My Portfolio” button. | | 3. A history showing the current status of each stock  will be displayed. |
| Alternative Course of Events | | |
|  |  |  |

Expanded Use Case – Sell Stock

|  |  |
| --- | --- |
| Use Case 6 | Sell Stock |
| Goal in Context | Allow the user to sell stock. |
| Primary Actor  Secondary Actor | FundFair App User    (none) |
| Trigger | When the FundFair App User wants to sell the stocks they bought. |
| Related Use Cases | View Portfolio |
| Typical Course of Events  Actor Action | System Response |
| 1. This use case begins when FundFair App User wants to sell the stock they bought. |  |
| 2. The FundFair App User tap on “Place Sell Order ” button. | 3. The system will prompt the user to select number of lot they want to sell. |
| 4. FundFair App User selects number of Lot they want to sell and proceed. | 5. A confirmation message box will be popped out to get user confirmation. |
| 6. FundFair App User tap on “Yes”. | 7. Message “Sold Successful” will be shown after the system finish processing the request. The sold stock will be removed from the portfolio. The total amount of virtual money will be updated. |
| Alternative Course of Events  Line 4a. If the number of lot entered exceeds the number of lot that owned by the user, prompts the user to re-enter a valid amount.  Line 6a. If app user tap on “No”, cancel the use case. | |