WORKBOOK

Project Title: Stock Virtual Machine **Team:** Sujal Patel, Linisha Basu, Sujay Patel **Client:** Benjamin Hughes

Requirements:

Use case name	UserRegistration	
Participating actors	New Users	
Flow of events	 User opens the browser and visits the URL localhost. The system displays the Home screen with a Signup, Login, and Help button. User clicks the "Sign up" button. The system takes user to the registration page and asks to enter a username, password and an email address. Once user completes the form, and presses "Create Account" button, the user gets redirected to Portfolio page. The system displays user's portfolio, which contains a username and virtual bank account with \$1000 balance. 	
Entry condition	User access the website through a web browser	
Exit condition	User successfully creates the account.	
Quality/Nonfunctional	The application should be loaded in 5 seconds after the	
Requirements	user accesses it on a web browser	

Use case name	Login
	1. User opens the browser and visits the URL
	localhost.
	2. The system displays the Home screen with
	a Signup, Login, and Help button.
	3. User clicks the "Login" button.
	4. The system takes user to Login page and ask user
Flow of events	to enter username and password.
	5. User enters the required information and clicks
	the "Submit" button.
	6. The system verifies the username and password
	from database.
	7. If the user enters incorrect information, then
	system asks user to reenter the information.

	8. If the user enters correct information then system takes the user to portfolio page.	
Entry condition	User access the website through a web browser	
Exit condition	User successfully is able to login.	
Quality/Nonfunctional	Authentication should be done within 2 seconds.	
Requirements		

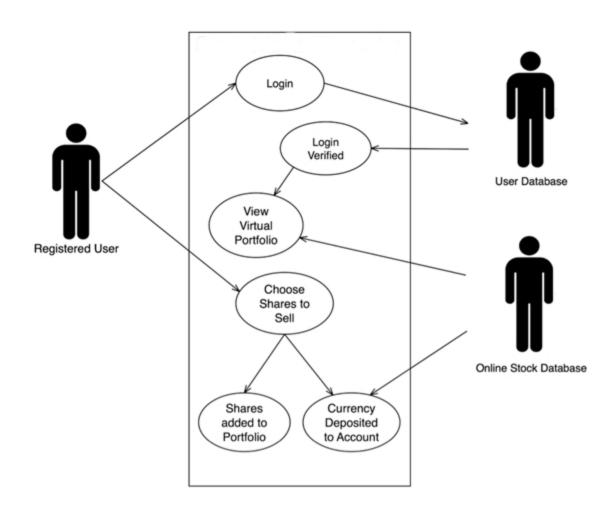
Use case name	BuyStock		
Participating actors	Registered Users		
Flow of events	 User opens the browser and visits the URL localhost. Once the user Login successfully, then the system takes the user to portfolio page. On portfolio page, the system provides user with the username, virtual balance, and three buttons i.e. BuyStock, SellStock, SearchStock. User click on "BuyStock" button. The system takes user to BuyStock page where user will be able to select the company name and enter the quantity of stock that user want to buy for a select company. The user click on "Purchase" button. The system makes sure that user has enough amount of virtual money to purchase the stock. If the user has enough virtual money then the system allows user to purchase the stock and takes the user back to portfolio page. On the portfolio page, it would display the list of stocks that the user owns and would update the 		
Entry condition	User access the website through a web browser		
Exit condition	User successfully able to purchase the stock.		
Quality/Nonfunctional	Once the user purchase the stock, their virtual balance		
Requirements	and their portfolio should be updated within 5 seconds		
	of the transaction.		

Use case name	SellStock	
Participating actors	Registered Users	
	1. User opens the browser and visits the URL	
	localhost.	
	2. Once the user Login successfully, then the system	
	takes the user to portfolio page.	

	3. On portfolio page, the system provides user with the username, virtual balance, and three buttons i.e. BuyStock, SellStock, SearchStock.	
	4. User click on "SellStock" button.	
Flow of events	5. The system takes user to SellStock page where user will be able to select the company name and enter the quantity of stock that user want to sell for a select company.	
	6. The user clicks on "Sell" button.	
	7. The system makes sure that user is not able to sell more stock than he owns.	
	8. Once the user sells the stocks then the system	
	takes the user back to portfolio page.	
	9. On the portfolio page, it would display only the	
	list of stocks that the user currently owns and	
	would update the virtual balance.	
Entry condition	User access the website through a web browser	
Exit condition	User successfully able to sell the stock.	
Quality/Nonfunctional	Once the user sells the stock, their virtual balance and	
Requirements	their portfolio should be updated within 5 seconds of	
_	the transaction.	

Use case name	SearchStock	
Participating actors	Registered Users	
Flow of events	 User opens the browser and visits the URL localhost. Once the user Login successfully, then the system takes the user to portfolio page. On portfolio page, the system display user with the username, virtual balance, and three buttons i.e. BuyStock, SellStock, SearchStock. User clicks on "SearchStock" button. The system takes user to Search page where user will be able to select the company name and click "Search" button. The system displays the stock information and current price of the selected company. If the user want to go back to portfolio page. then the user can click on "BackPortfolio" button. 	
Entry condition	User access the website through a web browser.	
Exit condition	User successfully able to sell the stock.	

Use case name	ExitApplication		
Participating actors	Registered Users		
Flow of events	 User opens the browser and visits the URL localhost. Once the user Login successfully, then the system takes the user to portfolio page. The system provides a "Logout" Button on the right side of the screen. User clicks on the "Logout" button. The system saves the user data and goes to login page. 		
Entry condition	User access the website through a web browser.		
Exit condition	User successfully able to logout from the application.		
Quality/Nonfunctional Requirements	The game should terminate within 2 seconds.		



Specifications:

Goals:

Low Target:

Our team goal is to accomplish several things before March 16. For example, Ted is new to the stock market and wants to get a real world experience before venturing into the actual stock market. Using the Stock Virtual Machine, Ted shall be able to create an account; the system must allow Ted to login. Ted should be able to access his portfolio page.

Use Cases: UserRegistration, Login, & ExitApplication

Your desirable target:

Our next step then would be to implement the functionality of buy, sell, and search stocks feature. Ted will get the full experience of buying and selling stocks without having to invest any actual currency. On the user's portfolio webpage, the system shall update the table of the stocks and virtual balance once Ted makes any transaction. The system must prevent Ted from buying more stocks than the amount of virtual balance he has.

Use Cases: BuyStock, SellStock, & SearchStock

Your high target:

At the end, our team goal would be to design the user-interface to make our web application look simple and attractive to the users.

Your extras:

Extra feature that could be implemented in the future would be RSS Feed, and Forget Password Recovery.

Non-Goals:

- User authentication should be done within 2 seconds.
- The user should be able to view their latests transactions no later than 5 seconds.
- The system should not crash more than once in a week.
- The system shall ensure that the data is protected from unauthorized access.
- In case of an error, the time needed to get the system back to running should not exceed an hour.
- The system should support multiple users simultaneously.

User Registration

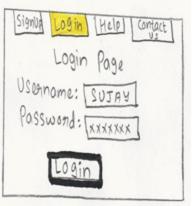
User MUST register to use the application. Once they register, the system takes the user to the Login page.

HOME SIGNUP LOGIN HELP Welcome to Stock Virtual Machine	Create an Account	HOME SIGNUP LOGIN HELP Login to Stock Virtual Machine
WELCOME Stock Virtual Machine Web application which provides a learning opportunity for new uses to become experts in stock Market without spending actual morey. To use the application users have to Sign Up.	REGISTER NOW The User will get the full experience of buying, and selling stock on the Web Without having to innest actual money. USERNAME: PASSWORD: CONFIRM PASSWARD: EMAIL ADDRESS:	LOGIN To use the program users must register with a username, Email, and Associated. USERNAME: GUTALATEL PASSWORD: **** LOGEN

Login

Once user enter valid username and password then system takes the user to the portfolio page.

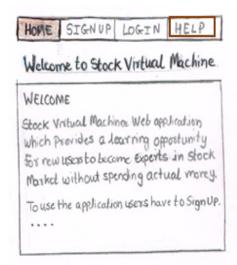






Help

If user needs help using the application. If user click on "Help" then the system takes the user to the Help page.





Exit Application

If user want to exit the application they shall click on "Logout". Once, user click Logout, the system takes user to Login.

