SPFNA Stock Idea Investment

Test Case Matrix

Priority levels	Description
1	*High*
2	*Medium*
3	*Low*

								Test Run	*Tester: SPFNA*
								Date: 27/11/2022	

ID	Action	Priority	Description	Inputs	Input Parameters/Files/ Values	Expected results	Notes, etc	Result	Comments
Initialize and setup									
1	Opening server	1	To verify that server opening back-end by using nodemon server.js	None	-	Server open successfully.		PASS	
2	Opening client	1	To verify that client opening front-end by using npm start	None	-	Client open successfully - open Home page on web browser		PASS	
Login									
3	User enters invalid username/email or password and hit login button for logging in	1	To verify that User enter wrong username/email or password and the system cannot find the user in the database. Authentication failed.	Username/email, password	Object<String>	The system will popup the notification about invalid username/email, wrong password	Password was encrypted and decrypt via bcrypt	PASS	
4	User not fill in required information (username/email, password) and hit login button when logging in	1	To verify that the system will check that every required text field is empty or not when user hit submit button on login and register page.	Username/Email, password	Object<String>	The system will popup notification about empty input field then, ask user to try again and stay on the same page.		PASS	
5	User enters valid username/email and password and hit login button for logging in	1	To verify that User enter correct username/email and correct password for that account. Authentication success.	Username/email, password	Object<String>	The system will popup the notification about login succesfully and then redirect to homepage again.	Password was encrypted and decrypt via bcrypt	PASS	
Register									
6	User enters the username or email that already exist in database and hit register button when register an account	1	To verify that User enters the username, email, password and select the avatar image for the new account. Then, the system will check that the username and email must be unique in the database.	Username, email, password, avatar	Object<String>	The system will popup the notification about the username or email existance and then stay on register page after user hit outer popup or OK button.		PASS	
7	User not fill in required information (username, email, password) and hit register button when register an acccount	1	To verify that the system will check that every required text field is empty or not when user hit submit button on login and register page.	Username, Email, password, avatar	Object<String>	The system will popup notification about empty input field then, ask user to try again and stay on the same page.	For avatar image will have default image for every account if user not selected when register.	PASS	
8	User enters valid username, email, password, and select the avatar image (optional) and hit register button when register an account	1	To verify that the system will check that every input is valid or not. If valid, the account will created and store in database.	Username, Email, password, avatar	Object<String>	The system will popup notification about register successfully and then redirect to homepage again.	For avatar image will have default image for every account if user not selected when register.	PASS	
Buy Stock (My portfolio page)									
9	User selects country, then enters invalid stock symbol and hit buy button on my portfolio page	1	To verify that the system will check the symbol from yahoo-finance API that the country and stock symbol is valid or not.	Stock symbol, country, amount	Object<String, number>	The system will popup notification about not found that stock symbol and then stay on the same page.	Use only US Country because convert-currency has limited request number.	PASS	Yahoo-finace will return error to server-side due to API error.
10	User enters amount and total value is more than the balance	1	To verify that the system will check current value from yahoo-finance API and multiply with buy amount to get total value	Stock symbol, country, amount	Object<String, number>	The system will popup notification about invalid total balance for entered amount and then stay on the same page		PASS	
11	User selects country, then enters valid stock symbol (new one) and valid amount and hit buy button on my portfolio page	1	To verify that the system will add the stock to user collection and deduct the account balance equal to current price multiply with buy amount.	Stock symbol, country, amount	Object<String, number>	The system will popup notification about successfully buy the stock and then my stock list will have the new one on the list.		PASS	
12	User selects country, then enters valid stock symbol (currently hold) and valid amount and hit buy button on my portfolio page	1	To verify that the system will add the stock amount to user collection and deduct the account balance equal to current price multiply with buy amount	Stock symbol, country, amount	Object<String, number>	The system will popup notification about successfully buy the stock and then the number of holding stock will increase		PASS	
Sell Stock (My portfolio page)									
13	User selects country, then enters invalid stock symbol and hit sell button on my portfolio page	1	To verify that the system will check the symbol from yahoo-finance API that the country and stock symbol is valid or not.	Stock symbol, country, amount	Object<String, number>	The system will popup notification about not found that stock symbol and then stay on the same page.	Use only US Country because convert-currency has limited request number.	PASS	Yahoo-finace will return error to server-side due to API error.
14	User sells the stock which is not holded in their account on my portfolio page	1	To verify that the system will check the user collection that the entered stock symbol is founded or not.	Stock symbol, country, amount	Object<String, number>	The system will popup notification about not found that stock on their account and stay on the same page		PASS	
15	User sells the number of stock more than actually own on my portfolio page	1	To verify that the system will check the hold amount of that stock from user collection.	Stock symbol, country, amount	Object<String, number>	The system will popup notification about invalid sell amount and stay on the same page		PASS	
16	User sells valid stock on my portfolio page	1	To verify that the system will deduct the owned stock amount and add the total balance equal to sell amount multiply with current stock value	Stock symbol, country, amount	Object<String, number>	The system will popup notification about successfully sell the stock.		PASS	
Write idea									

#	Description		Verify	Input	Type	Expected Result		Status	
17	User enters less than 6 characters idea title or idea detail and hit publish button	2	To verify that Idea title and detail must be at least 6 characters when publishing. For draft, it acceptable until the status change to publish.	Title, details	Object<String>	The system will popup notification about the error from input and stay on the same page		PASS	
18	User enters the title that already existed in database and hit publish or draft button.	2	To verify that Idea title must be unique and system will check the idea collection that the user idea is unique or not.	Title, details	Object<String>	The system will popup notification about the title already existed.		PASS	
19	User enter valid title and details, then hit DRAFT button.	2	To verify that the system will add the idea to the database as draft status which other user will not be able to see this idea until the owner change the status to public.	Title, details	Object<String>	The system will popup notification about successfully draft the idea.		PASS	
20	User select the draft idea to edit on my profile page.	2	To verify that the system will get the title and detail of that idea and fill it in the form.	None	-	The system will redirect user to write idea and fill the field with the draft idea that user select to edit.		PASS	
21	User enter valid title and details, then hit PUBLISH button.	2	To verify that the system will add the idea to the database as publish and every user can see the idea on idea space page.	Title, details	Object<String>	The system will popup notification about successfully publish the idea. In idea space page, the latest idea will shown up at the top.		PASS	
22	User delete the selected idea on my profile page.	2	To verify that the system will delete the selected idea from the database.	None	-	The system will popup notification about succesfully delete the idea. The deleted idea will not appear anymore on the system.		PASS	
Comment idea									
23	User comments empty field and hit comment button on idea page	2	To verify that the system will check that the comment is empty or not before add this comment to the database.	Comment, Idea	Object<String>	The system will popup notification about empty comment field and not add the comment to database, then stay on the same page		PASS	
24	User comments on the idea and hit comment button on idea page	2	To verify that the system will add the comment to that idea	Comment, Idea	Object<String>	The system will popup notification about succesfully comment on the idea and stay on the same page.		PASS	
Leaderboard									
25	User goes to leaderboard page	2	To verify that the system will rank order by total balance percentage.	None	-	The system will show the leader board and total balance percentage with small graph about stock		PASS	
26	User click the another account on the leaderboard	3	To verify that user will be redirected to other portfolio.	None	-	The system will navigate to other portfolio.		PASS	
Admin									
26	Admin enters less than 6 characters announcement title or idea detail and hit publish button	3	To verify that announcement title and detail must be at least 6 characters when publishing. For draft, it acceptable until the status change to publish.	Title, details	Object<String>	The system will popup notification about the error from input and stay on the same page		PASS	
27	Admin enters the title that already existed in database and hit publish or draft button.	3	To verify that annoucement title must be unique and system will check the idea collection that the user idea is unique or not.	Title, details	Object<String>	The system will popup notification about the announcement title already existed and stay on the same page.		PASS	
28	Admin enter valid title and details, then hit DRAFT button.	3	To verify that the system will add the announcement to the database as draft status which other user will not be able to see this idea until the owner change the status to public.	Title, details	Object<String>	The system will popup notification about successfully draft the announcement.		PASS	
29	Admin enter valid title and details, then hit PUBLISH button.	3	To verify that the system will add the idea to the database as publish and every user can see the idea on idea space page.	Title, details	Object<String>	The system will popup notification about successfully publish the announcement. In home page, the latest idea will shown up at the top.		PASS	
30	Admin hits reset the competition button on admin control page	2	To verify that the system will reset all account by remove all the stock and change the balance to default (200,000)	None	-	The system will popup notification about sucessfully reset the competition and all account will have no stock and total balance will equal to 200,000		PASS	
Sidebar									
31	User click Homepage from sidebar	3	To verify that user will be redirected to homepage.	None	-	The system will navigate to homepage		PASS	
32	User click Login from sidebar	3	To verify that user will be redirected to login page	None	-	The system will navigate to login page		PASS	
33	User click Register from sidebar	3	To verify that user will be redirected to Register page	None	-	The system will navigate to register page		PASS	
34	User click Idea Space from sidebar	3	To verify that user will be redirected to Idea Space page	None	-	The system will navigate to idea space page		PASS	
35	User click My Portfolio form sidebar	3	To verify that user will be redirected to My Portfolio page	None	-	The system will navigate to my portfolio page		PASS	
36	User click My Profile form sidebar	3	To verify that user will be redirected to My Profile page	None	-	The system will navigate to my profile page		PASS	
37	Not logged-in user bypass on the route that need authentication to access	1	To verify that user cannot access restricted page without logging in	None	-	The system will navigate to login page		PASS	
38	Admin click Admin control from sidebar	2	To verify that admin will be redirected to admin control page	None	-	The system will navigate admin to admin control page		PASS	
39	Not admin bypass on the route that only admin can access	1	To verify that the account on this route is only admin can access.	None	-	The system will navigate user to homepage		PASS	