Test case ID	Purpose	Steps	Expected Result
	INSTALLATION		
5	Installation of PIMS	Click on the PIMS installation program	System should ask the user for the home directory in which all the working files will be created. Along with that system should ask for the initial login and password
7	Password Changing	1. Click on the Change Password Icon. 2. Give wrong Ids in New Password and Confirm New Password text boxes	System should ask for the Old Password, New Password and confirm New Password. After that System authentication will be done and the new password will be stored in the system. The system should throw an error saying that the passwords doesn't match and should prompt the user to re-enter the password
21	Download Current share Prices having Internet connections	1. Log in with Valid User id and password 2. Click on Download Prices tab	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page The Current share prices should be downloaded from the prescribed site.
	Download Current share Prices without Internet Connections	1. Log in with Valid User id and password. 2. Click on Download Prices tab	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page. The system should Prompt user for Internet Connections

2	**Create Portfolio**		
2.2	Create Portfolio : Valid	Enter the valid portfolio name and click on Add.	Portfio should get added and displayed in the tree structure at the left side of the screen at the proper postion (sorted order).
2.3	Create Portfolio : Duplicate Portfolio field name validation	Enter the duplicate portfolio name and click on Add.	Proper error message should be displayed. After clicking on "OK", cursor should set to the PF text box.
2.4.5	Cancel action	Enter the valid portfolio name and click on Cancel.	Portfio should NOT get added and not been displayed in the tree structure at the left side of the screen.
11	Creating a Security	1. Select a Portfolio in which the security is to be created and Click on the "Create Security" icon in the Main Screen. 2. Enter the attributes and click on "Create Security"	System should ask the user to enter the attributes of the security An empty security of specified attributes should be created
11-2	Duplicate	1. Same as above 2. Enter the same Security name that exists already	System should throw an error message saying that the security creation failed.
14	Adding a Transaction	Select the portfolio and Security and click on "Add Transaction" icon	System should prompt the user for following details, a. Amount of money transacted b. Type of transaction: credit or debit. c. Date of transaction d. Any detail user might want to enter.

		Enter the Details and click "Add Transaction" button	New transaction should get created
		1. Same as above 2. Enter Invalid attribute values. For example field (i)(a) is not an integer or (i)(c) is not a float.	An Error message should be shown to the user and should prompt the user to enter the incorrect fields again.
28	**Create security Duplicate**		
	Create the security with same name in different portfolios	1. Create portfolio PF1 2. Create portfolio PF2 3. Create scurity S1 in PF1. 4. Create scurity S1 in PF2.	should be successful.
	Create the security for same company in different portfolios	1. Create portfolio PF1 2. Create portfolio PF2 3. Create scurity S1 of type share for company ABC in PF1. 4. Create scurity S2 of type share for company ABC in PF2.	Sholuld be successful since the transactions are defined under the securities.
	Create the security for same bank in different portfolios	1. Create portfolio PF1 2. Create portfolio PF2 3. Create scurity S1 of type bank for company ABC in PF1. 4. Create scurity S2 of type bank for company ABC in PF2.	Sholuld be successful since the transactions are defined under the securities.
38	**Alerts**		
	Adding the alerts for the Past time	Add Alert with y'day's date.	Application should NOT allow such activity OR proper error message should be shown.
	Editing the alert which will set to Past time. Adding the more than alert for the same time.	1. Add alert for tommorow. 2. Edit alert and set the dat for y'day. 1. Add alert1 with tommorows date. 2. Add alert2 with tommorows date. 3. Add alert3 with tommorows date.	Application should NOT allow such activity OR proper error message should be shown. all the alerts should be shown in proper manner.

		Set the alert and change the system date and time	1. Set the alert for tommorrow. 2. Change the system date from the control panel to 2 days back.	Application should be in a stable state.
24		Set Alerts	1. Log in with Valid User id and password 2. Click on Set Alert tab on the top of the main screen. 3. Enter a valid date and all relevant values	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page. The Set Alert screen should be displayed

The alert should be set |
| 25 | | Set Alerts with invalid values | 1. Log in with Valid User id and password. 2. Click on Set Alert tab on the top of the main screen 3. Enter a Date that does not exist and enter all correct details | The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page

The Set Alert screen should be displayed

The alert should not be set and an appropriate error message should be displayed |
| 26 | | To Display Pending Alerts | Log in with Valid User id and password | The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page |
| 27 | | Delete Alerts | 1. Log in with Valid User id and password 2. Click on the Delete Alert Tab on the top of the main screen. 3. Click on Delete button without selecting an Alert 4. Select an Alert and then click on Delete button 5. confirm the deletion of Alert | The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page All the alerts that are set should be displayed The user should be prompted to select an alert The user should be asked for confirmation to delete the alert The Alert should be deleted |

3	**Editing the Portflio/ Security/ Others**		
3.2	Rename Portflio : Valid	1. Select the PF name to be renamed. 2. Enter the valid PF name in the new name field. 3. Click on "Update".	portfolio name should be updated and properly displayed in the tree structure.
3.3	Rename Portflio : duplicate	1. Select the PF name to be renamed. 2. Enter the duplicate PF name in the new name field. 3. Click on "Update".	It should prompt the error message. (except when old name & new name are same).
12	Renaming a Security	1. Click on the "Rename Security" icon on the Main Screen. 2. Enter a new name for the Security and click "Rename Security" button	System asks the name of the security to be renamed and the new name. Security name should be changed.
		1. Same as above 2. Enter a Security name that does not exists	The system should throw an error message saying that the renaming fails
		1. Same as above 2. Enter the same security name that is existing already	The system should throw an error message saying that the renaming fails as the entered Security name already exists
16	Editing of a transaction with invalid values	1-3 same as above 4. Enter invalid values in the field. i.e. Enter an integer value in the Name field and save the transaction	User should be taken to the main screen which should have the investment tree in the left pane and various details in the right pane An appropriate error message should be displayed and the user should be prompted to change the invalid value

22	Edit Current share Prices	1. Log in with Valid User id and password. 2. Click on Edit share prices tab. 3. Edit the share price of any share	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page. The list of companies that has been downloaded previously should be displayed. The price should be edited and value should be saved
23	Edit Current share Prices with Invalid values	1. Log in with Valid User id and password 2. Click on Edit share prices tab 3. Edit the share price of any company with an invalid values	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page The list of companies that has been downloaded previously should be displayed An appropriate error message should be displayed and the user should be prompted to enter a valid value
34	**Edit shares prices.**		
	Edit the shares prices when the new companies are get added to the downloaded list.	THIS IS BEING THE SPECIFIC SCENARIO. IT DEPENDS ON THE DOWNLOADED DATA. THE SITUATION HERE EXPECTED AS : 1. Initially company list contain 100 names at the users PC. 2. When we download the share prices list, it will contain more than 100 company name b'coz of some companies r get added recently.	Those companies should get added to the list of companies present at user's PC.
29	**Rename Portfolio**		
	Rename the portfolio and check whether the associated securities are intact with it.	1. Create portfolio PF1 2. Create scurities S1 under PF1. 3. Create scurities S2 under PF1. 4. Rename PF1 to PF2. 5. Observe the securities under PF2	Securities under PF2 should be same as PF1 (old portfolio)

30	**Rename Security**		
	Rename the security when parent portfolio name changed.	1. Create portfolio PF1 2. Create scurities S1 under PF1. 3. Create scurities S2 under PF1. 4. Rename PF1 to PF2. 5. Rename security S1 to S3. 6. Observe the securities under PF2	PF2 should show the S1 & S3 as the securities.
31	**Transaction dependencies**		
	Add transaction for the shares when the no of shares to sell r < available shares	1. Create portfolio PF1 2. Create scuritiy S1 of type shares under PF1. 3. Add trans1 as "Buy 100 shares @ price 500 each". 4. Add trans2 as "Sell 150 shares @ price 600 each".	should NOT be successful. Should give proper error message.
	no of shares as –ve	1. Create portfolio PF1 2. Create scuritiy S1 of type shares under PF1. 3. Add trans1 as "Buy -100 shares @ price 500 each".	should NOT be successful. Should give proper error message.
	shares prices are –ve	1. Create portfolio PF1 2. Create scuritiy S1 of type shares under PF1. 3. Add trans1 as "Buy 100 shares @ price -500 each".	should NOT be successful. Should give proper error message.
	Repeat 4.1, 4.2 & 4.3 for Bank type security.	As mentioned in 4.1, 4.2 & 4.3.	should NOT be successful. Should give proper error message.
32	**Edit Transaction**		
	Trans 1 : buy 100 shares@500 each Trans2 : sell 80 shares@600 each Edit trans1 to make the no of shares as 50.	1. Create portfolio PF1 2. Create scuritiy S1 of type shares under PF1. 3. Add trans1 as "Buy 100 shares @ price 500 each". 4. Add trans2 as "Sell 80 shares @ price 600 each". 5. Edit trans1 as "Buy 50 shares @ price 500 each".	should NOT be successful. Should give proper error message.

15	Editing of a transaction	Login with valid user Id and Password Select the Transaction Tab Select a transaction and click on the Edit Transaction Tab at the bottom of the screen Enter different values and save the transaction	User should be taken to the main screen which should have the investment tree in the left pane and various details in the right pane The transaction screen should be displayed on the right pane with the various transaction values and the following three buttons at the bottom of the screen: 1. Add Transaction 2. Delete Transaction 3. Edit Transaction The screen with the existing transaction values should appear and should be editable The newly entered values should be accepted and the transaction should be saved with the new values
33	**Deletions**		
	Transaction Trans 1 : buy 100 shares@500 each Trans2 : sell 80 shares@600 each delete trans1.	1. Create portfolio PF1 2. Create scuritiy S1 of type shares under PF1. 3. Add trans1 as "Buy 100 shares @ price 500 each". 4. Add trans2 as "Sell 80 shares @ price 600 each". 5. Delete trans1.	should NOT be successful. Should give proper error message.
10	Deleting the portfolio	Click on the "Delete Portfolio" icon on the main Screen Enter the name of the portfolio to be deleted and click "Delete portfolio. Choose the name which has no securities. Delete the non-	System should ask the name of the portfolio to be deleted The corresponding portfolio should get deleted | System should ask the name of the portfolio to be deleted The corresponding portfolio should get deleted
	Delete the non-	Enter the portfolio name that	System should throw an error

		does not exist and click "Delete Portfolio"	message saying that the entered portfolio does not exist.
existent portfolio			
13	Deleting a Security	1. Click on the "Delete Security" icon on the main Screen 2. Enter the name of the portfolio to be deleted and click "Delete Security"	System should ask the name of the Security to be deleted. The corresponding Security should get deleted
		1. Same as above 2. Enter the security name that does not exist and click "Delete Security"	System should throw an error message saying that the entered Security name does not exists.
17	Deleting of a transaction	1. Log in with Valid User id and password. 2. Select the Transaction Tab 3. Click on Delete Transaction button with out selecting any transaction. 4. Select any Transaction and click the Delete Transaction Tab 5. Confirm to Delete the selected Transaction	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page The transaction screen should be displayed on the right pane with the various transaction values and the following three buttons at the bottom of the screen: 1. Add Transaction 2. Delete Transaction 3. Edit Transaction The user should be prompted to select a transaction The selected Transaction should be deleted
	DISPLAY		
18	Display the Investment Details	1. Log in with Valid User id and password 2. Click on the Investment tab in the left pan of the main screen. 3. Compare the Worth of Portfolio displayed in the main screen with the one calculated manually using the formula given	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page The various available Portfolios should be displayed along with the worth and the summation displayed as Net Worth, also the Add Portfolio, Delete Portfolio

			and Edit Portfolio buttons should be displayed. The values should be equal.
19	Display the Portfolio Details	1. Log in with Valid User id and password. 2. Select the Portfolio tab in the left pan of the main screen. 3. Compare the Worth of Security and ROI displayed in the main screen with the one calculated manually by the formula given.	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page. The various available securities should be displayed along with the Net worth and ROI calculated. Also the Net Worth of the securities which is the summation of all Net Worth of Each securities should also be displayed in the bottom of the screen along with the Add Security, Delete Security and Edit Security screen. The values should be equal
20	Display the Securities Details	1. Log in with Valid User id and password. 2. Select any particular security under a portfolio from the left pan of the main screen	The user should be taken to the Main Screen which has 2 panes and various tabs on the top of the page. All the transactions corresponding to that screen should be displayed along with the following details 1. Notes 2. Date 3. Amount Transacted 4. Transaction Type also the Add Transaction, Delete Transaction and Edit Transaction buttons at the bottom of the screen
1	**GUI VALIDATION**		
1.1	GUI validation	1. Invoke the application 2. Observe the login window.	1. Login window displayed. 2.Login window should have

		3. Observe spelling and the location of all the objects. 4. Enter the data into password field.	Text box :User Name, Password. Buttons : Login, Cancel. 3. All the text & objects should be properly located & spelled. They should follow thw logical order. 4. Pasword should be dispayed in encrypted format like '*****'.
1.2	Vaild Login	1. Enter valid user name & password. 2. Click on Login	User successfully logged in to the application. After login Investment screen shold be displayed.
1.3	Invalid Login		
1.3.1	Invalid User Name	1. Enter Invalid User Name. 2. Enter valid password. 3. Click on Login.	Error message window dispalyed with proper error message. Message may be specific for 'Invlid user name' OR generalised one as ' Invalid user name OR pasword'.
1.3.2	Invalid Password	1. Enter valid User Name. 2. Enter invalid password. 3. Click on Login.	Error message window dispalyed with proper error message. Message may be specific for 'Invlid password' OR generalised one as ' Invalid user name OR pasword'.
1.3.3	Invalid User name & Password	1. Enter invalid User Name. 2. Enter invalid password. 3. Click on Login.	Error message window dispalyed with proper error message.
1.3.4	No. of unsuccessful login	Make the invalid login fpr 3 with different combinations times.	After 3rd unsuccessful lgoin application should terminate.
1.4	Multiple Instances of the application	1. Re-invoke the application.	Re-invoke should be aborted OR working instance of the application should terminate and set to the login stage.

35	ROI computations		
ROI computations for bank.	with compound interest methods	1. Create portfolio PF1 2. Create scuritiy S1 of type bank under PF1. 3. Add trans1 as "Invest Rs. 50,000 @ 8% compound interest for 5 years.". 4. Use formula, $P = N(1 + R/100)^n$ $\quad$ = Rs. 73,466.5	Net-worth for the security after 5 years should be displayed as Rs. 73,466.5
	Monthly ROI computation.	Repeat above steps when the interest calculated on the per month basis. Try for 32 months.	ROI of security should be match with the computed ROI.
	Discarding the some amount from the specific saving and analyzing the change in ROI	1. Create portfolio PF1 2. Create scuritiy S1 of type bank under PF1. 3. Add trans1 as "Invest Rs. 50,000 @ 8% compound interest." 4. Add trans2 as "Take out 20,000 after 1 year." 5. Check the Net worth computation at the end of 3 years.	ROI of security should be match with the computed ROI.
ROI computations for shares.	Not understood		Not understood
	ROI computations for portfolio All securities are only of type Bank	1. Create portfolio PF1 2. Create scuritiy S1,S2,S3 of type bank under PF1. 3. Add the transactions to S1,S2,S3 4. Check the ROI computation at security level. 5. Check the ROI computation for portfolio	ROI should be average of all

	all securities are only of type shares	1. Create portfolio PF2 2. Create scuritiy S1,S2,S3 of type share under PF2. 3. Add the transactions to S1,S2,S3 4. Check the ROI computation at security level. 5. Check the ROI computation for portfolio	ROI should be average of all
	mix-up securities.	1. Create portfolio PF3 2. Create scuritiy S1,S2 of type share and S3, S4 under PF3. 3. Add the transactions to S1,S2,S3,S4 4. Check the ROI computation at security level. 5. Check the ROI computation for portfolio	ROI should be average of all
computing overall ROI.	computing the ROI for the whole investment.	1.Create PF1, PF2, PF3 as described in 10.1,10.2,10.3. 2. Check the ROI computation for portfolio 3. Check the ROI computation for whole investment	ROI should be average of all portfoilos ROI
36	**Net-Worth Computation**		
Net-Worth Computation for security	Computing the Net-Worth for the bank type security.	1. Create portfolio PF1 2. Create scuritiy S1 of type bank under PF1. 3. Add trans1 as "Invest Rs. 50,000 @ 8% compound interest for 5 years.". 4. Use formula, $P = N(1 + R/100)^n$ = Rs. 73,466.5	Net worth should include interest gain till date.
	Computing the Net-Worth for the shares type security.	1. Create portfolio PF1 2. Create scuritiy S1 of type bank under PF1. 3. Add transaction " Buy 100 shares @ 500 each." 4. Download the current shares prices. 5. Update the share price list.	Net worth should show the current value of the number of shares available.

Net-Worth Computation for portfolio	Computing the Net-Worth for the portfolio	1. Create portfolio PF1 2. Create scuritiy S1,S2 of type share and S3, S4 under PF1. 3. Add the transactions to S1,S2,S3,S4 4. Check the Net-worth computation at security level. 5. Check the Net worth computation for portfolio	Net worth should show the sum of Net-worth of all the securitites under portfolio.
Net-Worth Computation for whole Investment	Computing the Net-Worth for the whole Investment.	1.Create PF1, PF2, PF3 as described in 10.1,10.2,10.3. 2. Check the Net-worth computation for portfolio 3. Check the NetWorth computation for whole investment	Net worth should show the sum of Net-worth of all the portfolios.
37	**Loss in shares**		
	verifying the losses in the shares transaction.	1. Create portfolio PF1 2. Create scuritiy S1 of type shares under PF1. 3. Add trans1 as "Buy 100 shares @ price 500 each". 4. Add trans2 as "Sell 100 shares @ price 400 each". 5. Check the ROI for the security.	ROI should be -ve in this caes.