

USE CASE for Personal Finance Project

Job #: NSNL1

Project Sponsor: NSNL

Business Owner/Project Manager: Neel Sheth

Business Analyst: Pooja Sheth

Requirements: Sign off and Approval

Business Analyst

Signature

Date

Version #	Date	CR #	Description of Change

Use Case Name: Login

Use Case Number: 6.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to log in and access their online personal accounts.

Trigger: The user clicks login navigation button on the welcome page

Precondition- The user needs to be a registered online user.

Post-condition- The user is enable to view the Home page.

Primary Flow (PF1):

Title: User able to login without any errors.

Actor Action	System Response
1. User clicks login navigation button (refer wire frame-1)	2. System displays login page (refer wire frame-2)
3. User enters login email address and password	
4. User clicks Login command button	5. System validates the entered email address and password. (refer validation-1) If valid, go to the next steps, Else, If invalid, go to Alternate Flow 1 (AF 1)
	7. System displays Home page. (refer wire frame 4)

Alternate Flow (AF 1):

Title: Invalid user email address or password.

Actor Action	System Response
	1. system displays the error message. (refer validation-1)
2. Go to step 3 of PF1.	

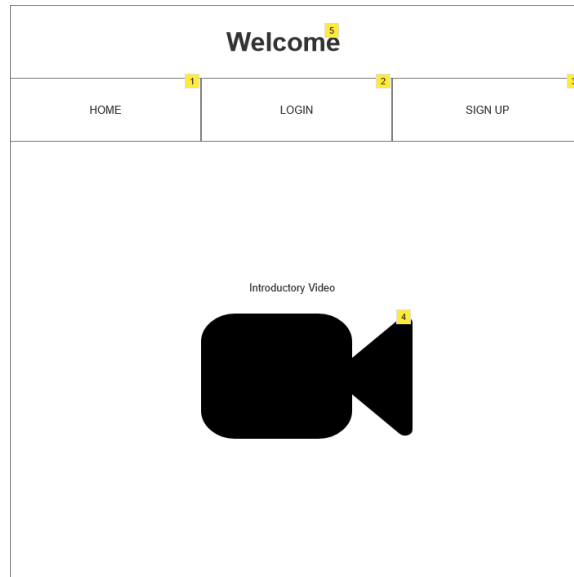
Exception Flow (EF 1):

Title: User clicks sign up command button.

Actor Action	System Response
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1. User clicks sign up navigation button	2. System displays sign up page for the user. (refer wire frame-3)
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Wire frame-1



Note number	Name	Note
1	Home-Navigation Button	When a user clicks HOME, display Welcome page.
2	Login-Navigation Button	When user clicks Login, display Login page.
3	Sign up-Navigation Button	When the user clicks sign up, display sign up page.
4	Introductory Video- Video Button	When the user clicks on video, play/pause the video.
5	Welcome-Label	"Welcome" Label will display above Navigation Bar in Center.

Wire frame -2

The image shows a wireframe of a login page. At the top, there is a header with the title "Login". Below the header is a navigation bar with three buttons: "HOME", "LOGIN", and "SIGN UP". The main content area contains two input fields: "Email" and "Password". Each input field has a small icon indicating it is a required field. Below the input fields are two buttons: "Sign up" and "Login".

Note number	Name	Note
1	Home- Navigation Button	When the user clicks on Home, it display Welcome page.
2	Sign up-Navigation Button	When the user click on Sign up, display sign up page.
3	Email ID- Text Bod	Required field AlphaNumeric, special character Min. Char.1 Max.Char.50
4	Password-Text Box	Required Field AlphaNumeric, special character Min.Char.8 Max.Char.25 Entered data is masked.
5	Sign Up-Command Button	On click sign up, display sign up page.
6	Login-Command Button	On click Login, If all validations pass, display home page, else display error message.
7	Login-Label	"Login" Label will display above the Navigation Bar in Center.

Validation-1

Failed Validation	Error Message Displayed
a. All the required data is entered.	<Date Field> is a required field. Please enter a value for <Data Field>.
b. All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Filed>
c. Validation requirements for Email ID shall be handled by browser.	<Email ID> is invalid format. Please enter a different Email ID. This error shall be displayed below <data field>
d. Validation requirements for password shall match with Rejex criteria	Enetred password does not match the <validation requirement>. Please enter a valid password. This error shall be displayed below <data field>
e. Entered Email Id is registered Email ID	Unauthorised user. Please enter the registered Email ID.

Use Case Name: Sign Up

Use Case Number: 6.2

Primary Actor: New user/ non registered user

Use Case Story: This use case enables user to register into online personal accounts.

Trigger: The user clicks Sign up navigation button on the welcome page

Precondition- The user needs to be a non-registered online user.

Post-condition- The user is enable to view the Home page.

Primary Flow (PF1):

Title: User able to register without any errors.

Actor Action	System Response
1. User clicks sign up navigation button (refer wire frame-1)	2. System displays sign up page (refer wire frame-3)
3. User enters information in wire frame -3	
4. User clicks sign up command button	5. System validates the entered information. (refer validation 2) If valid, go to the next steps, Else, If invalid, go to Alternate Flow 1 (AF 1)
	7. System displays Home page. (refer wire frame 4)

Alternate Flow (AF 1):

Title: Invalid entered information.

Actor Action	System Response
	1. system displays the error message. (refer validation-2)
2. Go to step 3 of PF1.	

Wire Frame-3

Note number	Name	Note
1	Home- Navigation Button	On click Home, display welcome page.
2	Login-Navigation Button	On click login, display login page
3	First Name-Text Box	Required field AlphaNumeric, special character Min.Char.1 Max.Char.25
4	Last Name- Text Box	Required field AlphaNumeric, special character Min.Char.1 Max.Char.25
5	Email-Text Box	Required field AlphaNumeric, special character Min.Char.1 Max.Char.50

Note number	Name	Note
6	Password- Text Box	Required Field AlphaNumeric, special character Min.Char.8 Max.Char.25 Entered data is masked.
7	Sign Up-Command Button	On click sign up, if all validations passes, display home page, else display error message.
8	Sign Up-Label	"Sign Up" Label will display above Navigation Bar in Center.

Failed Validation	Error Message Displayed
a. All the required data is entered.	<Date Field> is a required field. Please enter a value for <Data Field>.
b. All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Filed>
c. Validation requirements for Email ID shall be handled by browser.	<Email ID> is invalid format. Please enter a different Email ID. This error shall be displayed below password field.
d. Validation requirements for password shall match with Rejex criteria	The enetred password does not match the <validation requirement>. Please enter a valid password. This error shall be displayed below password field.
e. Enetred Email ID is unique.	<Email ID> is already associated with the registered account. Please enter different Email ID.

Use Case Name: Home Page

Use Case Number: 6.4

Primary Actor: Registered user

Use Case Story: This use case enables user to view home page.

Trigger: The user clicks home navigation button on the Home page

Precondition- The user needs to be a registered online user.

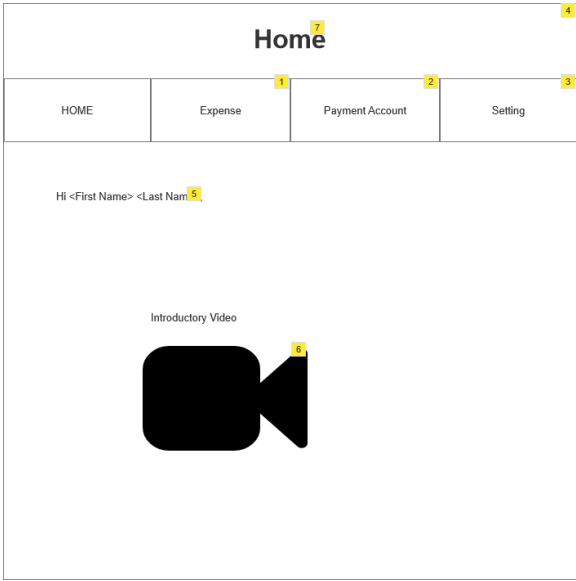
Post-condition- The user is enable to view the Home page.

Primary Flow (PF1):

Title: User able to view home page without any errors.

Actor Action	System Response
1. User clicks home navigation (refer wire frame-4)	2. System displays sign up page (refer wire frame-4)

Wire frame-4



Note number	Name	Note
1	Expense-Navigation Button	On click Expense, display expense page.
2	Payment Account-Navigation Button	On click payment account, display payment page.
3	Setting-Navigation Button	On click setting, display setting page.
4		
5	Label	“Hi <First Name> <Last Name>,” display on the left-hand side below navigation Bar.
6	Introductory Video-Video	On click play, play/pause video.
7	Home-Label	“Home” Label will display above Navigation Bar in Center.

Use Case Name: Manage Expense page

Use Case Number: 6.5

Primary Actor: Registered user

Use Case Story: This use case enables registered users to view expense history.

Trigger: The user clicks expense navigation button on the home page

Precondition- The user needs to be a registered online user.

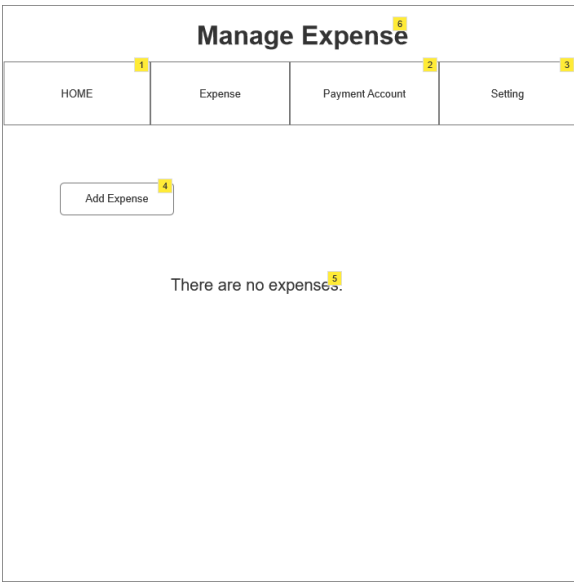
Post-condition- The user is enable to view and edit values on the expense page.

Primary Flow (PF1):

Title: User able to view/edit expense page.

Actor Action	System Response
1. User clicks expense navigation button (refer wire frame-4)	2. System displays expense page (refer wire frame-5)

Wire frame-5



Note number	Name	Note
1	Home- Navigation Button	On click home, display the home page.
2	Payment Account- Navigation Button	On click, display payment account page.
3	Setting-Navigation Button	On click, display setting button.
4	Add Expense-Command Button	On click, display add expense page.
5	Label	"There are no expenses" will display in center.
6	Manage Expense-Label	"Manage Expense" Label will display above Navigation Bar in Center.

Use Case Name: Add expense

Use Case Number: 6.6

Primary Actor: Registered user

Use Case Story: This use case enables registered users to add expense.

Trigger: The user clicks add expense command button

Precondition- The user needs to be a registered online user.

Post-condition- The user is enable to see the added expense on the manage expense page.

Primary Flow (PF1):

Title: User able to add expense without any errors.

Actor Action	System Response
1. User clicks add expense command button (refer wire frame-5)	2. System displays add expense page (refer wire frame-6)
3. User enters the information	
4. User clicks Add command button	5. System validates the entered information. (refer validation-3) If valid, go to the next steps, Else, If invalid, go to Alternate Flow 1 (AF 1)
	6. System displays the added expense on the manage expense page. (refer wire frame 10)

Alternate Flow (AF 1):

Title: Invalid user email address or password.

Actor Action	System Response
	1. system displays the error message. (refer validation-3)
2. Go to step 3 of PF1.	

Exception Flow (EF 1):

Title: User clicks cancel command button.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information and go to manage expense page

Wire frame-6

Manage Expense

HOME
Expense
Payment Account
Setting

Bill Name 5

Bill Amount 6

Payment Account 7

Expense Category 8

Description 9

Receipt 10

Tax 11

Verify 12

Expense Date 14

Expense Breakdown 15

Select

Select

Click to Verify 13

Expense Breakdown 15

Cancel 16

Add 17

Note number	Name	Note
1	Home-Navigation Button	On click, display home page
2	Expense-Navigation Button	On click, display expense page
3	Payment account-Navigation Button	On click, display payment account page
4	Setting-Navigation Button	On click, display setting page.
5	Bill Name-Text Box	Required field Any characters Min.char.1 max.char.50
6	Bill Amount-Text Box	not required field Integer and real number
7	Payment Account-Drop Down	No default selection-Select is default. Options from <payment account type list>
8	Expense category-Drop Down	No default selection. Select is default. Options are <expense category list>
9	Description-Text Box	min.char.0 max.char.150 any characters
10	Receipt-File Upload Button	On click file upload button, windows explorer will pop up for the user to select the document/image file.

Note number	Name	Note
11	Tags- Text Box	10 tags comma separated values Any character
12	Verify-unverified badge	Unverified is the default selection
13	Click to verify-Command Button	On click, Open the popup: "Do you want to verify this expense?" as shown in "Verify Pop Up" wire frame
14	Expense Date- calendar Widget	Default selection is today's date. user can choose any date from future or past.
15	Expense Breakdown- Component	On click, One Row will display below. User can type in the columns. The column names are shown below. Item name, amount, item category, description tags. Refer "Expense Breakdown" wire frame below.
16	Cancel-Command Button	On click, discard all the data and display expense page.
17	Add-Command Button	On click, add data and display it on expense page.
18	Manage Expense-Label	"Manage Expense" Label will display above Navigation Bar in Center.

Use Case Name: Click to verify

Use Case Number: 6.6.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to verify the expense.

Trigger: The user clicks click to verify command button

Precondition- The user needs to be on add expense page.

Post-condition- The user is enable to verify the expense on add expense page.

Primary Flow (PF1):

Title: User able to verify the expense.

Actor Action	System Response
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1. User clicks click to verify command button (refer wire frame-6)	2. System displays pop up option: do you want to verify this expense manually? (refer wire frame-7)
3. If User clicks on yes command button, go to the next step Else, If user click No command button, go to exception flow (EF1))	4. system verify the expense and display on the page (refer wire frame 8)

Exception Flow (EF 1):

Title: User clicks No command button.

Actor Action	System Response
1. User clicks No command button	2. System close the pop up menu and the expense remains unverified and no change on the page (refer wire frame 6)

Wire frame-7

The wireframe shows a 'Manage Expense' form with a top navigation bar containing 'HOME', 'Expense', 'Payment Account', and 'Setting'. The main form has several input fields: 'Bill Name', 'Bill Amount', 'Payment Account' (a dropdown), 'Expense Category' (a dropdown), 'Description', 'Receipt' (with an upload icon), 'Tax', 'Vendor', 'Expense Date', and 'Expense Breakdown' (a dropdown). A confirmation pop-up is displayed over the form, asking 'Do you want to verify this expense manually?' with 'Yes' and 'No' buttons. At the bottom of the form are 'Cancel' and 'Add' buttons. Numbered callouts (1-20) are present throughout the interface.

Note number	Name	Note
18	Pop up Yes-Command Button	On click yes, close the pop up and display verified badge as shown in "Verified" wire frame.
19	Pop up No-Command Button	On click, no change will appear and close the pop-up.

Wire frame-8

Use Case Name: Expense Breakdown

Use Case Number: 6.6.2

Primary Actor: Registered user

Use Case Story: This use case enables registered users to write in expense breakdown field.

Trigger: The user clicks click to expense breakdown button

Precondition- The user needs to be on add expense page.

Post-condition- The user can view/edit the expense breakdown on add expense page.

Primary Flow (PF1):

Title: User able to write in expense breakdown without any errors.

Actor Action	System Response
1. User clicks Expense breakdown command button (refer wire frame-6)	2. System displays table where user can write the values. The system will add the rows as soon as the user clicks on the last row.
3. User write the information in the data field	
4. go to step 4 of PF-1 of add expense use case	

Wire frame-9

Manage Expense¹⁴

HOME⁹

Expense¹⁰

Payment Account¹¹

Setting¹²

Bill Name:^{*}

Bill Amount:

Payment Account:

Select

Expense Category:

Select

Description:

Receipt:

Tags:

Verify:

Click to Verify¹³

Expense D:¹

Item Name ²	Amount ³	Item Category ⁴	Description ⁵	Tags ⁶
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Cancel⁷

Add⁸

Note number	Name	Note
1	Expense Date	Default selection is today's date. user can choose any date from future or past.
2	Item Name-Text Box in table	min.char.1 max.char.50 Any character
3	Amount-Text Box in table	Infinity max number Any numbers with decimal upto 2. If user add more than 2 decimal then system automatically convert it to the round figure.
4	Item Category- Drop Down in Table	No default selection Options are <expense category list>
5	Description-Text Box in Table	min.char.1 max.char.10 any characters
6	Tags-Text Box in Table	10 tags comma separated values. Any character
7	Cancel-Command Button	On click, go to expense page.
8	Add-Command Button	On click, add the expense, go to expense page and display on expense page in table format.
9	Home:Navigation Button	On click, go to home button

Note number	Name	Note
10	Expense-Navigation Button	On click, Go to expense page
11	Payment Account-Navigation Button	On click, go to payment account
12	Setting-Navigation Button	On click, go to setting button.
13	Click to verify-Command Button	On click, go to verify page.
14	Manage Expense-Label	"Manage Expense" Label will display above Navigation Bar in Center.

Validation-3

Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>
Tags are separated by comma	Value for tags are separated by comma. Please try again.

Wire frame-10

Manage Expense¹⁰

HOME¹
Expense²
Payment Account³
Setting⁴

Add Expense⁵

Paymer Account ⁹	Expense date	Bill Name	Amount	Category	Verified	Tags	Description	Actions
<Payment Account>	<Expense Date>	<Bill Name>	<Bill Amount>	<Expense Category>	<verify>	<Tags>	<Description>	<div style="display: flex; align-items: center; gap: 5px;"> <div style="border: 1px solid black; padding: 2px;">6</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">8</div> <div>Expense Breakdown</div> </div>

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button

Note number	Name	Note
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	Add Expense-Command button	On click, display add expense page.
6	Update-Action Button	On click, display update expense page.
7	Delete-Action Button	On click, display pop up : Do you want to delete this expense?
8	View-Action Button	On click, expand expense breakdown listed item. All the entered values will display. If no value then it will display dash (-).
10	Manage Expense-Label	"Manage Expense" Label will display above Navigation Bar in Center.

Use Case Name: Manage expense page after adding expense

Use Case Number: 6.7

Primary Actor: Registered user

Use Case Story: This use case enables registered users to update, delete and view the expense history.

Trigger: The user clicks click on action button

Precondition- The user has previously added expense in the expense history.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to update expense history.

Actor Action	System Response
1. User clicks on update action button (refer wire frame-10)	2. System displays update expense page. (refer wireframe- 11)
3. User update the information in the data field	
4. user click on update command button	5. go to step 5 of PF1 of add expense.

Exception Flow (EF 1):

Title: User clicks cancel command button in update expense history.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information and go to manage expense page

Primary Flow (PF2):

Title: User able to delete the expense.

Actor Action	System Response
1. User clicks delete action button (refer wire frame-10)	2. System displays pop up option: do you want to delete this expense? (refer wire frame- 12)
3. If User clicks on yes command button, go to the next step Else, If user click No command button, go to exception flow (EF2)	4. system delete this expense on the manage expense page

Exception Flow (EF 2):

Title: User clicks No command button in delete the expense.

Actor Action	System Response
1. User clicks No command button	2. System close the pop up menu and the expense remains as before on the manage expense page (refer wire frame 10)

Primary Flow (PF3):

Title: User able to view expense history.

Actor Action	System Response
1. User clicks on view action button (refer wire frame-10)	2. System displays entered values of expense history and broadens the row expense page. (refer wireframe- 13)

Wire frame-11

1

2

3

4

17

16

Manage Expense

HOME

Expense

Payment Account

Setting

8

Bill Name

<Bill Name>

9

Bill Amount

<Bill Amount>

10

Payment Account

<Payment Account>

11

Expense Category

<Expense Category>

12

Description

<Description>

13

Receipt

<Receipt>

14

Tags

<Tags>

15

Verify

<Verify>

16

Expense Description

<Verify>

5

Expense Breakdown

\$

6

Cancel

7

Update

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	Expense Breakdown-Component	On click, One raw will display below. User can type in the columns. The column names are shown below. Item name, amount, item category, description tags. If no value then display blank.
6	Cancel-Command Button	On click, discard all data and display expense page.
7	Update- Command Button	On click, update expense and display it on expense page.
8	Bill Name-Text Box	Required fird Any characters Min.char.1 max.char.50

Note number	Name	Note
9	Bill Amount-Text Box	not required field Integer and real number If no value then display blank.
10	Payment Account-Drop Down	If no value then display default selection. Select is default selection Options from <payment account type list>
11	Expense category-Drop Down	If no value then display default selection. No default selection. Select is default. Options are <expense category list>
12	Description-Text Box	If no value then display blank. min.char.0 max.char.150 any characters
13	Receipt-File Upload Button	If no value then display File upload button. On click file upload button, windows explored will pop up for the user to select the document/image file.
14	Tags- Text Box	If no value then display blank. 10 tags comma separated values Any character
15	Verify-unverified badge	If no value then display default selection as unverified. and display click to verify command button. If it is verified then only display verified badge.
16	Expense Date- calendar Widget	If no value then display default today's date. Default selection is today's date. user can choose any date from future or past.
18	Manage Expense-Label	"Manage Expense" Label will display above Navigation Bar in Center.

Validation-4

Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>
Tags are separated by comma	Value for tags are separated by comma. Please try again.

Wire frame-12

Manage Expense

HOME

Expense

Payment Account

Setting

Do you want to delete this expense?

Yes

No

Note number	Name	Note
1	Yes-Command Button	On click yes, delete this expense in expense page.
2	No-Command Button	On click no, display no change on expense page.

Wire frame-13

Manage Expense

HOME

Expense

Payment Account

Setting

Add Expense

Payment Account	Expense date	Bill Name	Amount	Category	Verified	Tags	Description	Actions
<Payment Account>	<Expense Date>	<Bill Name>	<Bill Amount>	<Expense Category>	<verify>	<Tags>	<Description>	<div>Expense Breakdown</div> <div>Expense Breakdown:</div> <div>Item Name: <Item Name></div> <div>Amount: <Amount></div> <div>Expense Category: <Expense Category></div> <div>Description: <Description></div> <div>Tags: <Tags></div>

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
3	Expense-Navigation Button	On click, Go to expense page

Note number	Name	Note
4	Payment Account-Navigation Button	On click, go to payment account
5	Setting-Navigation Button	On click, go to setting button.
6	Add Expense-Command button	On click, display add expense page.
7	Table	<p>Payment Account: <payment account> or if there is no value then it will display "-".</p> <p>Expense date:<Expense date> or if there is no value then it will display "-".</p> <p>Bill Name:<Bill Name> or if there is no value then it will display "-".</p> <p>Amount: <Amount> or if there is no value then it will display "-".</p> <p>Category: <Category> or if there is no value then it will display "-".</p> <p>Verified: <payment account> or if there is no value then it will display "-".</p> <p>Tags: <tags> or if there is no value then it will display "-".</p> <p>Description: <Description> or if there is no value then it will display "-".</p>
8	Manage Expense-Label	"Manage Expense" Label will display above Navigation Bar in Center.

Use Case Name: Manage Payment Account Page

Use Case Number: 6.8

Primary Actor: Registered user

Use Case Story: This use case enables registered users to view payment account page.

Trigger: The user clicks payment account navigation button on the home page

Precondition- The user needs to be a registered online user.

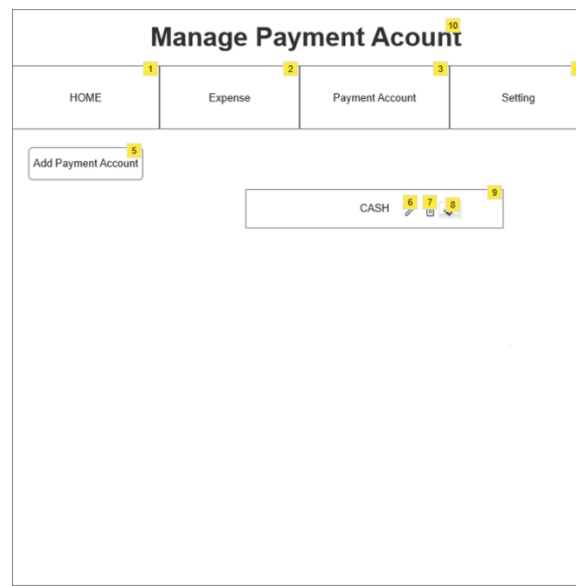
Post-condition- The user is enable to view and edit values on the payment account.

Primary Flow (PF1):

Title: User able to view/edit payment account.

Actor Action	System Response
1. User clicks expense navigation button (refer wire frame-4)	2. System displays expense page (refer wire frame-5)

Wire frame-14



Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	Add Payment Account-Command Button	On click, go to add payment account page.
6	Update-Action Button	On click, go to update account page.
7	Delete-Action Button	On click,display pop up message: Do you want to delete this payment account?
8	View-Action Button	On click, display payment account values. If there is any value, it will appear else show dash (-).
9	Cash-Card Button	default payment account option.

Note number	Name	Note
10	Manage Payment Account-Label	"Manage Payment Account" Label will display above Navigation Bar in Center.

Use Case Name: Add payment account page

Use Case Number: 6.8.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to add payment account.

Trigger: The user clicks add payment account command button

Precondition- The user needs to be a registered online user.

Post-condition- The user is enable to see the added payment account on the manage payment account page.

Primary Flow (PF1):

Title: User able to add expense without any errors.

Actor Action	System Response
1. User clicks add payment account command button (refer wire frame-14)	2. System displays add payment account page (refer wire frame-15)
3. User enters the information	
4. User clicks Add command button	5. System validates the entered information. (refer validation-5) If valid, go to the next steps, Else, If invalid, go to Alternate Flow 1 (AF 1)
	6. System displays the added payment account below cash option on the manage payment account page. (refer wire frame 16)

Alternate Flow (AF 1):

Title: Invalid user email address or password.

Actor Action	System Response
	1. system displays the error message. (refer validation-5)
2. Go to step 3 of PF1.	

Exception Flow (EF 1):

Title: User clicks cancel command button.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information and go to manage expense page

Wire frame-15

The wireframe shows a form titled "Manage Payment Account". It features a navigation bar with four buttons: "HOME", "Expense", "Payment Account", and "Setting". The main form area contains the following fields and controls:

- Short Name: Text input field
- Institution Name: Text input field
- Account Name: Text input field
- Account Number: Text input field
- Account Type: Dropdown menu with "Select" as the placeholder
- Title: Text input field
- Description: Text input field
- Cancel: Button
- Add: Button

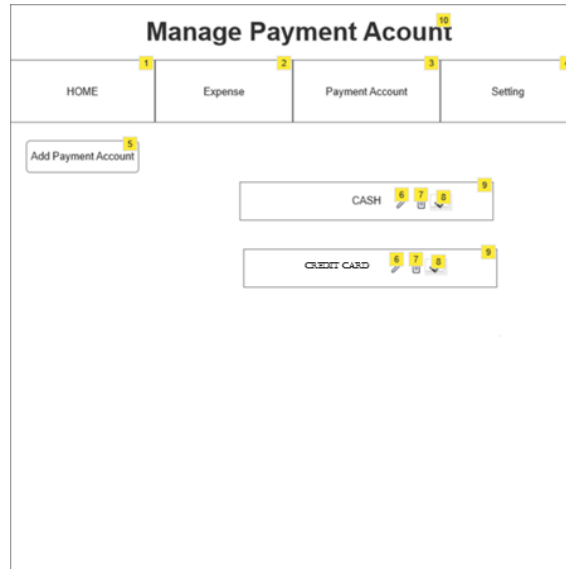
Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	Cancel-Command Button	On click, discard the entered values and go to payment account page.
6	Add-Command Button	On click, if all validations pass add payment account and display it on payment account.

Note number	Name	Note
7	Short Name-Text Box	Required Field Alpha Numeric and special character (. , - _ ' ' " ") min.char.1 max.char.20
8	Institution Name-Text Box	Alpha Numeric and special character (. , - _ ' ' " ") min.char.0 max.char.25
9	Account Name-Text Box	Required Field Alpha Numeric and special character (. , - _ ' ' " ") min.char.0 max.char.50
10	Account Number/ID-Text Box	Alpha Numeric and special character (. , - _ ' ' " ") min.char.0 max.char.25
11	Account Type-Drop Down	No default selection. Select will appear on start. The list of values entered in the payment account type will appear in drop down options <Payment Account Type list>.
12	Tags-Text Box	5 tags tags can be comma (,) seperated value.
13	Description-Text Box	Any character min.char.0 max.char.150
14	Manage Payment Account-Label	"Manage Payment Account" Label will display above Navigation Bar in Center.

Validation-5

Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>
Tags are separated by comma	Value for tags are separated by comma. Please try again.

Wire frame-16



Use Case Name: Manage payment account page- payment account options

Use Case Number: 6.8.2

Primary Actor: Registered user

Use Case Story: This use case enables registered users to update, delete and view the payment account.

Trigger: The user clicks click on action button

Precondition- The user has previously added payment account in the payment account and cash default option.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to update payment account.

Actor Action	System Response
1. User clicks on update action button (refer wire frame-16)	2. System displays update expense page. (refer wireframe- 17)
3. User update the information in the data field	
4. user click on update command button	5. go to step 5 of PF1 of add payment account.

Exception Flow (EF 1):

Title: User clicks cancel command button in update payment account.

Actor Action	System Response
--------------	-----------------

1. User clicks cancel command button	2. System discard all the entered information and go to manage payment account page
--------------------------------------	---

Primary Flow (PF2):

Title: User able to delete the payment account.

Actor Action	System Response
1. User clicks delete action button (refer wire frame-16)	2. System displays pop up option: do you want to delete this payment account? (refer wire frame-18)
3. If User clicks on yes command button, go to the next step Else, If user click No command button, go to exception flow (EF2)	4. system remove this payment account on the manage payment account (refer wire frame 14)

Exception Flow (EF 2):

Title: User clicks No command button in delete the payment account.

Actor Action	System Response
1. User clicks No command button	2. System close the pop up menu and the expense remains as before on the manage expense page (refer wire frame 16)

Primary Flow (PF3):

Title: User able to view payment account.

Actor Action	System Response
1. User clicks on view action button (refer wire frame-16)	2. System displays entered values of payment account. (refer wireframe- 19)

Wire frame-17

Manage Payment Account ¹⁴

HOME ¹
Expense ²
Payment Account ³
Setting ⁴

Short Nan ⁵

Institution Nan ⁶

Account Nan ⁷

Account Number ⁸

Account Ty ⁹

Ta ¹⁰

Descript ¹¹

Cancel ¹²
Update ¹³

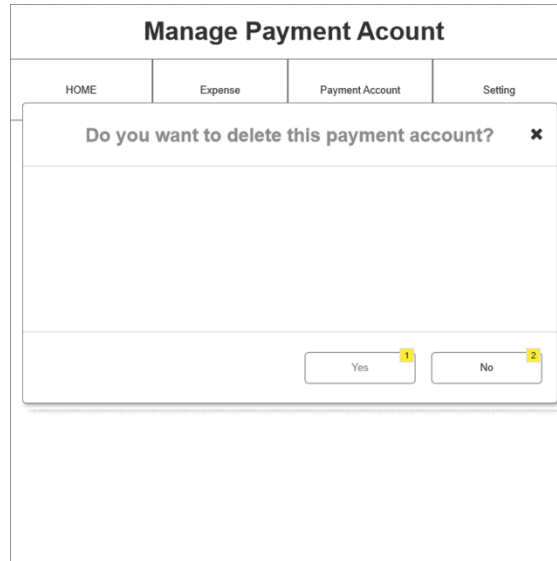
Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	Short Name-Text Box	Required Field Alpha Numeric and special character (. , - _ ' ' " ") min.char.1 max.char.20
6	Institution Name-Text Box	Already values will appear, if no value then it appear as blank. Alpha Numeric and special character (. , - _ ' ' " ") min.char.0 max.char.25
7	Account Name-Text Box	Required Field Alpha Numeric and special character (. , - _ ' ' " ") min.char.0 max.char.50
8	Account Number/ID-Text Box	Already values will appear, if no value then it appear as blank. Alpha Numeric and special character (. , - _ ' ' " ") min.char.0 max.char.25

Note number	Name	Note
9	Account Type-Drop Down	Already values will appear, if no value then it appear as select option. value options in account type are displayed <Payment Account Type list>.
10	Tags-Text Box	Already values will appear, if no value then it appear as blank. 5 tags tags can be comma (,) seperated value.
11	Description-Text Box	Already values will appear, if no value then it appear as blank. Any character min.char.0 max.char.150
12	Cancel-Comman Button	On click, discard the enetered values and go to payment account page.
13	Update-Command Button	On click, if all validations pass add payment account and display it on payment account page.
14	Manage Payment Account-Label	"Manage Payment Account" Label will display above Navigation Bar in Center.

Validation-6

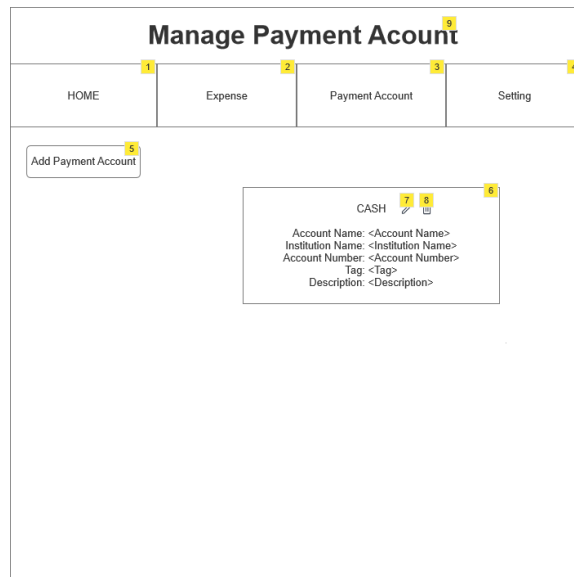
Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>
Tags are separated by comma	Value for tags are separated by comma. Please try again.

Wire frame-18



Note number	Name	Note
1	Yes-Command Button	On click, delete this payment account and go to payment account page.
2	No-Command Button	On click, no change and go to payment account page.

Wire frame-19



Note number	Name	Note
1	Home:Navigation Button	On click, go to home button

Note number	Name	Note
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	Add Payment Account-Command Button	On click, go to add payment account page.
6	Cash-Card Box	On click view, display all the filled values. If no value then display dash (-).
7	Update-Action Button	On click, go to update payment account page.
8	Delete-Action Button	On click, go to delete payment account page.
9	Manage Payment Account-Label	"Manage Payment Account" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- General setting is default option

Use Case Number: 6.9

Primary Actor: Registered user

Use Case Story: This use case enables registered users to access manage setting page.

Trigger: The user clicks click on setting navigation bar

Precondition- The user needs to be registered online user.

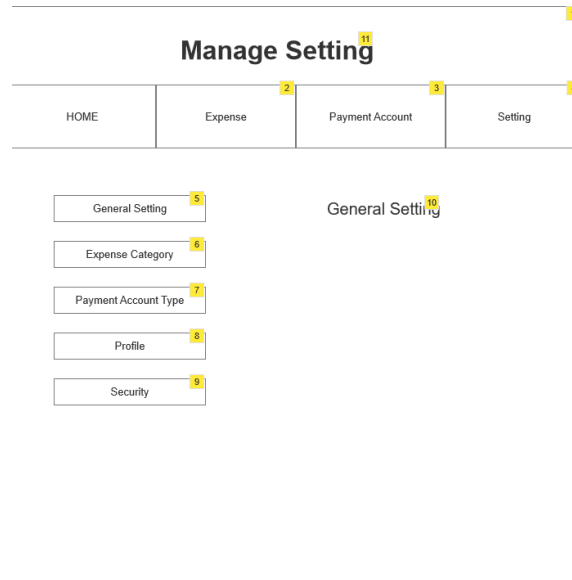
Post-condition- N/A

Primary Flow (PF1):

Title: User able to update payment account.

Actor Action	System Response
1. User clicks on setting navigation (refer wire frame-19)	2. System displays manage setting -general setting is the default. (refer wireframe- 19)

Wire frame-20



Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Label	"General Setting" values appear on the page on the right hand side.
11	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Expense Category

Use Case Number: 6.10

Primary Actor: Registered user

Use Case Story: This use case enables registered users to add/view/update/delete/enable expense category list.

Trigger: The user clicks click on Expense category tab button

Precondition- The user needs to be registered online user.

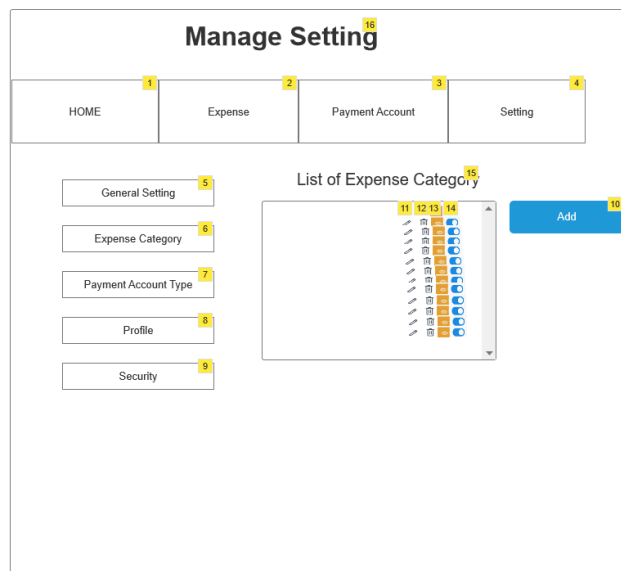
Post-condition- N/A

Primary Flow (PF1):

Title: User able to view expense category list.

Actor Action	System Response
1. User clicks on expense category navigation tab button (refer wire frame-20)	2. System displays manage setting -list of expense category in the same page. (refer wireframe- 21)

Wire frame-21



Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page

Note number	Name	Note
9	Security: Tab Button	On Click, Display security page
10	Add- Command Button	On click, open add expense category below.
11	Update- Action button	On click, open update page below
12	Delete-Action Button	On click, open delete popup: Do you want to delete this expense category?
13	View-Action Button	On click, open view of expense category list below
14	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
15	Label	"List of Expense Category" values appear on the page on the right hand side.
16	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Add in Expense Category list

Use Case Number: 6.10.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to add expense category list.

Trigger: The user clicks click on add command button

Precondition- The user needs to be registered online user.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to add expense without any errors.

Actor Action	System Response
1. User clicks add command button (refer wire frame-21)	2. System displays add payment expense category on the same page page (refer wire frame-22)
3. User enters the information	
4. User clicks save command button	5. System validates the entered information. (refer validation-7) If valid, go to the next steps, Else, If invalid, go to Alternate Flow 1 (AF 1)
	6. System displays the added expense category in expense category list. (refer wire frame 22)

Alternate Flow (AF 1):

Title: Invalid user email address or password.

Actor Action	System Response
	1. system displays the error message. (refer validation-7)
2. Go to step 3 of PF1.	

Exception Flow (EF 1):

Title: User clicks cancel command button.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information and disable the add values. (refer wire frame-21)

Wire frame-22

Manage Setting

HOME Expense Payment Account Setting

General Setting Expense Category Payment Account Type Profile Security

List of Payment Account Type

Add

Name	Status	Color	Description
Nan	Sta	Col	Descript

Cancel Save

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page

Note number	Name	Note
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Add- Command Button	On click, open add payment account type below.
11	Cancel-Command Button	On click, discard all the entered values and go to payment account type page.
12	Save-Command Button	On click, if all validations pass, add value in expense category list and display it in the list on expense category page.
13	View-Action Button	On click, open view of expense category list below
14	Update- Action button	On click, open update page below
15	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?
16	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
17	Name-Text Box	Required field Alpha Numeric and special character (. , - _ ' ; " ") min.char.3 max.char.15
18	Status-Check Box	Default option is enable. On click, user can uncheck and disable the option.
19	Color-Color Box	On click, user choose any color options displayed by browser. No default selection.
20	Description-Text Box	Any character min.char.0 max.char.100
21	Label	"List of Payment Account Type" values appear on the page on the right hand side.
22	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Validation-7

Failed Validation	Error Message
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All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>

Use Case Name: Manage setting- Expense category list options

Use Case Number: 6.10.2

Primary Actor: Registered user

Use Case Story: This use case enables registered users to update, delete, view and enable/disable the expense category list.

Trigger: The user clicks click on action button

Precondition- The user has previously added expense category list options.

Post-condition- N/A

Primary Flow-1 (PF1):

Title: User able to view expense category.

Actor Action	System Response
1. User clicks on view action button (refer wire frame-23)	2. System displays entered values of expense category. (refer wireframe- 23)

Primary Flow-2 (PF2):

Title: User able to update expense category.

Actor Action	System Response
1. User clicks on update action button (refer wire frame-23)	2. System displays update expense page. (refer wireframe- 24)
3. User update the information in the data field	
4. user click on update command button	5. go to step 5 of PF1 of add expense category list.

Exception Flow (EF 1):

Title: User clicks cancel command button in update expense category.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information

Primary Flow (PF2):

Title: User able to delete the expense category.

Actor Action	System Response
1. User clicks delete action button (refer wire frame-23)	2. System displays pop up option: do you want to delete this expense category? (refer wire frame-25)
3. If User clicks on yes command button, go to the next step Else, If user click No command button, go to exception flow (EF2)	4. system remove this expense category from expense category list

Exception Flow (EF 2):

Title: User clicks No command button in delete the expense category.

Actor Action	System Response
1. User clicks No command button	2. System close the pop up menu and the expense remains as before on the manage expense page (refer wire frame 23)

Primary Flow-3 (PF3):

Title: User able to enable/disable expense category.

Actor Action	System Response
1. User clicks on enable/disable action button (refer wire frame-23)	2. System disable the option if it is enabled before and vice versa (refer wireframe- 26)

Wire frame-23

Manage Setting

HOME Expense Payment Account Setting

General Setting Expense Category Payment Account Type Profile Security

List of Payment Account Type

Name	Status	Relations	Color	Icon	Description	Created Date	Last Updated Date
<Payment Account Type Name>	<Payment Account Type Status>	<Payment Account Type Relation>	<Payment Account Type>	<Payment Account Type>	<Payment Account type Description>	<Payment Account Type Sign up Date>	<Payment Account Type Last Updated date>

Update Delete Add

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile-Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Update-Command Button	On click, if all validations pass, add the entered value in expense category list and display it in expense category page, else display error "Entered value is invalid. Enter valid value.".
11	Delete-Command Button	On click, open pop up: do you want to delete this payment account type?
12	Add-Command Button	On click, if all validations pass, add entered value and display it in the payment account type list and go to payment account type tab.
13	View-Action Button	On click, open view of expense category list below
14	Update- Action button	On click, open update page below
15	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?
16	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
17	Text Values	Display all the entered values else no values then display dash (-).
18	Label	"List of Payment Account Type" values appear on the page on the right hand side.
19	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Wire frame-24

Manage Setting

HOME
Expense
Payment Account
Setting

General Setting

Expense Category

Payment Account Type

Profile

Security

List of Payment Account Type

13141516

Nam<Name>

Sta☐ <Status>

Col<Color>

Descript<Description>

Cancel
Update

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Add-Command Button	On click, open add options below add button.
11	Cancel-Command Button	On click, discard all the entered values and go to expense category page.
12	Update-Command Button	On click, if all validations pass add entered value in expense category list, else display error message "enetered value is invalid. Please display valid value".
13	View-Action Button	On click, open view of expense category list below

Note number	Name	Note
14	Update- Action button	On click, open update page below
15	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?
16	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
17	Name-Text Box	Required field Display entered value. Alpha Numeric and special character (. , - _ ' ; " ") min.char.3 max.char.15
18	Status-Check Box	Display entered value else display enable option. User can uncheck and disable the option.
19	Color-Color Box	Display entered value else display blank value. User choose any color options displayed by browser.
20	Description-Text Box	Display entered value else display blank value. Any character min.char.0 max.char.100
21	Label	"List of Payment Account Type" values appear on the page on the right hand side.
22	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Wire frame-25

Manage Setting

HOME

Expense

Payment Account

Setting

General Setting

List of Payment Account Type

✕

Do you want to delete this payment account type?

security

Yes

No

Yes

No

Note number	Name	Note
1	Yes-Command Button	On click, delete the entered value item in expense category list and go to expense category page.
2	No-Command Button	On click, do not delete expense category item and go to expense category page.

Wire frame-26

Manage Setting

HOME

Expense

Payment Account

Setting

General Setting

Expense Category

Payment Account Type

Profile

Security

List of Payment Account Type

11

12

13

14

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Add

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button

Note number	Name	Note
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Add-Command Button	On click, open add expense category below.
11	View-Action Button	On click, open view of expense category list below
12	Update- Action button	On click, open update page below
13	Delete-Action Button	On click, open delete popup: Do you want to delete this expense category?
14	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
15		On click, change status enable to disable or reverse.
16	Label	"List of Expense Category" values appear on the page on the right hand side.
17	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Payment account type

Use Case Number: 6.11

Primary Actor: Registered user

Use Case Story: This use case enables registered users to add/view/update/delete/enable payment account type.

Trigger: The user clicks click on payment account type tab button

Precondition- The user needs to be registered online user.

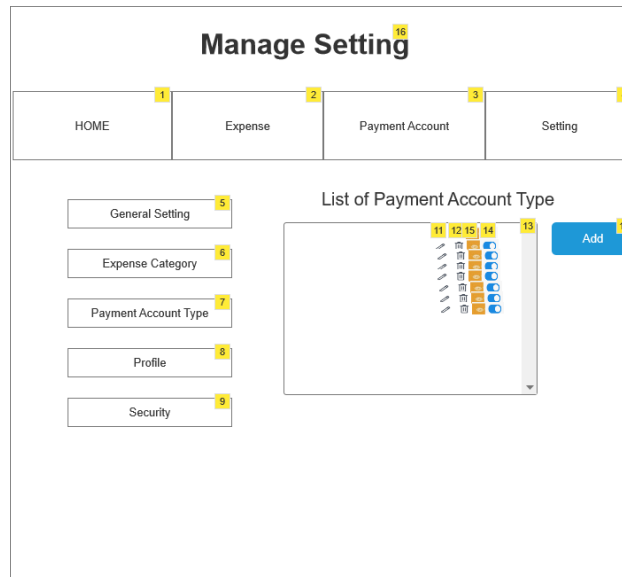
Post-condition- N/A

Primary Flow (PF1):

Title: User able to view expense category list.

Actor Action	System Response
1. User clicks on payment account type navigation tab button (refer wire frame-20)	2. System displays manage setting -list of payment account type in the same page. (refer wireframe- 26)

Wire frame-26



Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account-Navigation Button	On click, go to payment account
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Add- Command Button	On click, open add payment account type below.
11	Update- Action button	On click, open update page below
12	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?

Note number	Name	Note
13		
14	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
15	View-Action Button	On click, open view of epayment account type list below
16	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Add in payment account type list

Use Case Number: 6.11.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to add payment account type list.

Trigger: The user clicks click on add command button

Precondition- The user needs to be registered online user.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to add expense without any errors.

Actor Action	System Response
1. User clicks add command button (refer wire frame-26)	2. System displays add payment account type on the same page (refer wire frame-27)
3. User enters the information	
4. User clicks save command button	5. System validates the entered information. (refer validation-8) If valid, go to the next steps, Else, If invalid, go to Alternate Flow 1 (AF 1)
	6. System displays the added payment account type in payment account type list.

Alternate Flow (AF 1):

Title: Invalid user email address or password.

Actor Action	System Response
	1. system displays the error message. (refer validation-8)
2. Go to step 3 of PF1.	

Exception Flow (EF 1):

Title: User clicks cancel command button.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information and disabled the textbox for the user to enter. (refer wire frame -26)

Wire frame-27

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page

Note number	Name	Note
9	Security: Tab Button	On Click, Display security page
10	Add- Command Button	On click, open add payment account type below.
11	Cancel-Command Button	On click, discard all the entered values and go to payment account type page.
12	Save-Command Button	On click, if all validations pass, add value in expense category list and display it in the list on expense category page.
13	View-Action Button	On click, open view of expense category list below
14	Update- Action button	On click, open update page below
15	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?
16	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
17	Name-Text Box	Required field Alpha Numeric and special character (. , - _ ' ; " ") min.char.3 max.char.15
18	Status-Check Box	Default option is enable. On click, user can uncheck and disable the option.
19	Color-Color Box	On click, user choose any color options displayed by browser. No default selection.
20	Description-Text Box	Any character min.char.0 max.char.100
21	Label	"List of Payment Account Type" values appear on the page on the right hand side.
22	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Validation-8

Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>

Use Case Name: Manage setting- payment account type list options

Use Case Number: 6.11.3

Primary Actor: Registered user

Use Case Story: This use case enables registered users to update, delete, view and enable/disable the expense category list.

Trigger: The user clicks click on action button

Precondition- The user has previously added expense category list options.

Post-condition- N/A

Primary Flow-1 (PF1):

Title: User able to view payment account type.

Actor Action	System Response
1. User clicks on view action button (refer wire frame-23)	2. System displays entered values of payment account type. (refer wireframe- 23)

Primary Flow-2 (PF2):

Title: User able to update payment account type.

Actor Action	System Response
1. User clicks on update action button (refer wire frame-23)	2. System displays update payment account type in the same page. (refer wireframe- 24)
3. User update the information in the data field	
4. user click on update command button	5. go to step 5 of PF1 of add payment account type list.

Exception Flow (EF 1):

Title: User clicks cancel command button in update payment account type.

Actor Action	System Response
1. User clicks cancel command button	2. System discard all the entered information

Primary Flow (PF2):

Title: User able to delete the payment account type.

Actor Action	System Response
1. User clicks delete action button (refer wire frame-23)	2. System displays pop up option: do you want to delete this payment account type? (refer wire frame- 25)

3. If User clicks on yes command button, go to the next step Else, If user click No command button, go to exception flow (EF2)	4. system remove this payment account type from payment account type list
--	---

Exception Flow (EF 2):

Title: User clicks No command button in delete the expense category.

Actor Action	System Response
1. User clicks No command button	2. System close the pop up menu and the expense remains as before on the manage expense page (refer wire frame 23)

Primary Flow-3 (PF3):

Title: User able to enable/disable expense category.

Actor Action	System Response
1. User clicks on enable/disable action button (refer wire frame-23)	2. System disable the option if it is enabled before and vice versa (refer wireframe- 26)

Wire frame-23

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button

Note number	Name	Note
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile-Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Update-Command Button	On click, if all validations pass, add the entered value in expense category list and display it in expense category page, else display error "Entered value is invalid. Enter valid value.".
11	Delete-Command Button	On click, open pop up: do you want to delete this payment account type?
12	Add-Command Button	On click, if all validations pass, add entered value and display it in the payment account type list and go to payment account type tab.
13	View-Action Button	On click, open view of expense category list below
14	Update- Action button	On click, open update page below
15	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?
16	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
17	Text Values	Display all the entered values else no values then display dash (-).
18	Label	"List of Payment Account Type" values appear on the page on the right hand side.
19	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Wire frame-24

[illegible]

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Add-Command Button	On click, open add options below add button.
11	Cancel-Command Button	On click, discard all the entered values and go to expense category page.
12	Update-Command Button	On click, if all validations pass add entered value in expense category list, else display error message "entered value is invalid. Please display valid value".
13	View-Action Button	On click, open view of expense category list below

Note number	Name	Note
14	Update- Action button	On click, open update page below
15	Delete-Action Button	On click, open delete popup: Do you want to delete this expense category?
16	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
17	Name-Text Box	Display enetered value. Required field Alpha Numeric and special character (. , - _ ' ; " ") min.char.3 max.char.15
18	Status-Check Box	Display enetered value else display enable option. User can uncheck and disable the option.
19	Color-Color Box	Display enetered value else display blank value. User choose any color options displayed by browser.
20	Description-Text Box	Display enetered value else display blank value. Any character min.char.0 max.char.100
21	Label	"List of Expense Category" values appear on the page on the right hand side.
22	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Wire frame-25

Manage Setting

HOME

Expense

Payment Account

Setting

General Setting

List of Payment Account Type

✕

Do you want to delete this payment account type?

security

Yes

No

Yes

No

Note number	Name	Note
1	Yes-Command Button	On click, delete the entered value item in expense category list and go to expense category page.
2	No-Command Button	On click, do not delete expense category item and go to expense category page.

Wire frame-26

Manage Setting

HOME

Expense

Payment Account

Setting

General Setting

Expense Category

Payment Account Type

Profile

Security

List of Payment Account Type

Add

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button

Note number	Name	Note
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting: Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Add-Command Button	On click, open add expense category below.
11	Update- Action button	On click, open update page below
12	Delete-Action Button	On click, open delete popup: Do you want to delete this payment account type?
13	View-Action Button	On click, open view of expense category list below
14	Enable/Disable-Action Button	On click, change status enable to disable or reverse.
15	Label	"List of Payment Account Type" values appear on the page on the right hand side.
16	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Profile

Use Case Number: 6.12

Primary Actor: Registered user

Use Case Story: This use case enables registered users to view profile.

Trigger: The user clicks click on profile tab button

Precondition- The user needs to be registered online user.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to view profile on manage setting.

Actor Action	System Response
1. User clicks on profile navigation tab button (refer wire frame-26)	2. System displays personal details. (refer wireframe- 27)

Wire frame-27

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting-Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Change Name-Command Button	On click, Enable the text box for user to write and open change name on the same page.
11	First Name-Disabled Text Box	Disabled text box. User can see the previously entered values but cannot change.

Note number	Name	Note
12	Last Name-Disabled Text Box	Disabled text box. User can see the previously entered values but cannot change.
13	Personal Details-Label	"Personal Details" values appear on the page on the right hand side.
14	Currency Profile-Label	"Currency Profile" values appear on the page on the right hand side.
15	Country: United States-Label	"Country: United States" values appear on the page on the right hand side.
16	Currency: \$ Dollar	"Currency: \$ Dollar" values appear on the page on the right hand side.
17	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Profile- change name

Use Case Number: 6.12.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to change name.

Trigger: The user clicks click on change name command button

Precondition- The user needs to be registered online user.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to change name on profile-manage setting page without any error.

Actor Action	System Response
1. User clicks on change name command button (refer wire frame-27)	2. System displays personal details. (refer wireframe- 28)
3. User enter the information	
4. User clicks on update command button	5. system validates the entered information. (refer validation-9) If it is valid, go to next step Else, If it is invalid, go to Alternate flow-1 (AF-1)
	6. system update the name and display on the profile page. (refer wire frame 27)

Alternate Flow-1 (AF1):

Title: Invalid first name and last name.

Actor Action	System Response
	1. system displays error message. (refer validation 9)
2. go to the step 3 of PF-1	

Exception Flow (EF1):

Title: Cancelling the change name.

Actor Action	System Response
1. User clicks on cancel command button (refer wire frame-28)	2. system discard all the entered information and display default on profile page. (refer wire frame 27)

Wire frame-28

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account

Note number	Name	Note
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting-Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Update-Command Button	On click, if all validations pass, display the values on the profile page, else show error message: "entered value is invalid. Please enter valid value".
11	Cancel-Command Button	On click, discard all the entered value and go profile page.
12	First Name-Text Box	Required field min.char.1 max.char.25 Alpha Numeric Special character
13	Last Name-Text Box	Required field min.char.1 max.char.25 Alpha Numeric Special character
14	Personal Details-Label	"Personal Details" values appear on the page on the right hand side.
15	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Validation-9

Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>

Use Case Name: Manage setting page- Security

Use Case Number: 6.13

Primary Actor: Registered user

Use Case Story: This use case enables registered users to view security page on manage setting.

Trigger: The user clicks click on security tab button

Precondition- The user needs to be registered online user.

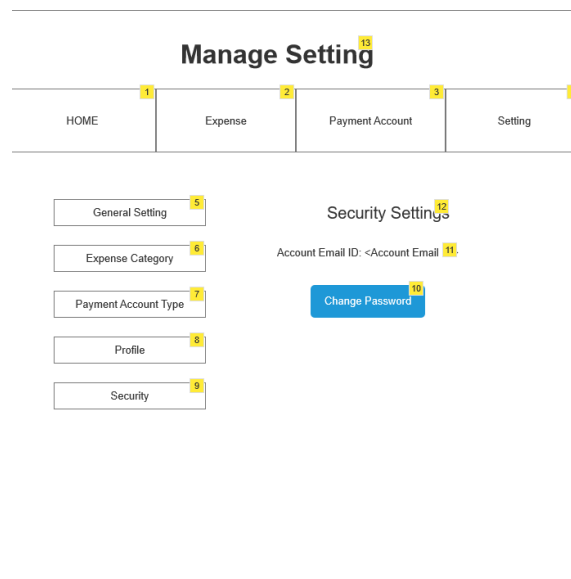
Post-condition- N/A

Primary Flow (PF1):

Title: User able to view profile on manage setting.

Actor Action	System Response
1. User clicks on security navigation tab button (refer wire frame-28)	2. System displays security settings. (refer wireframe- 29)

Wire frame-29



Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account
4	Setting-Navigation Button	On click, go to setting button.

Note number	Name	Note
5	General Setting-Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Change Password-Command Button	On click, display chnage password option on the same page.
11	Account Email ID-Label	Account Email ID: <Account Email ID>
12	Security Settings-Label	"Security Settings" values appear on the page on the right hand side.
13	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Use Case Name: Manage setting page- Profile- change password

Use Case Number: 6.13.1

Primary Actor: Registered user

Use Case Story: This use case enables registered users to change password.

Trigger: The user clicks on change password command button

Precondition- The user needs to be registered online user.

Post-condition- N/A

Primary Flow (PF1):

Title: User able to change password on security-manage setting page without any error.

Actor Action	System Response
1. User clicks on change password command button (refer wire frame-29)	2. System displays personal details. (refer wireframe- 30)
3. User enter the information	
4. User clicks on save command button	5. system validates the entered information. (refer validation-10) If it is valid, go to next step Else, If it is invalid, go to Alternate flow-1 (AF-1)

	6. system update the password and go to security tab page. (refer wire frame 29)
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Alternate Flow-1 (AF1):

Title: Invalid first name and last name.

Actor Action	System Response
	1. system displays error message. (refer validation 9)
2. go to the step 3 of PF-1	

Exception Flow (EF1):

Title: Cancelling the change name.

Actor Action	System Response
1. User clicks on cancel command button (refer wire frame-28)	2. system discard all the entered information and display default on security page. (refer wire frame 29)

Wire frame-30

Note number	Name	Note
1	Home:Navigation Button	On click, go to home button
2	Expense-Navigation Button	On click, Go to expense page
3	Payment Account-Navigation Button	On click, go to payment account

Note number	Name	Note
4	Setting-Navigation Button	On click, go to setting button.
5	General Setting-Tab Button	On Click, Display setting page
6	Expense Category: Tab Button	On Click, Display expense category page
7	Payment Account Type: Tab Button	On Click, Display expense category page
8	Profile: Tab Button	On Click, Display profile page
9	Security: Tab Button	On Click, Display security page
10	Current Password-Text Box	Required Field Alpha Numeric, Special Character min.char.8 max.char.25 Entered date is masked
11	New Password-Text Box	Required Field Alpha Numeric, Special Character min.char.8 max.char.25 Entered date is masked Current password should not match with the old password.
12	Cancel-Command Button	On click, discard all the values and go to security page.
13	Save-Command Button	On click, if all validations pass, change the password and go to security page.
14	Security Settings-Label	"Security Settings" values appear on the page on the right hand side.
15	Manage Setting-Label	"Manage Setting" Label will display above Navigation Bar in Center.

Validation-10

Failed Validation	Error Message
All required data is entered	<Data Field> is a required field. Please enter a valid value for <Data Field>.
All the entered data is valid	Value for <Data Field> is invalid. Please enter a valid value for <Data Field>
Current Password Should match with the current value	Incorrect current password. Please enter the current password
The new password cannot be same as old password	New password cannot be same as old password. Please enter different new password.

