


Test Cases

This document is an extension of the requirements document. In this document, we can see the test cases as well “alive” wireframes.

User Case 1

User Case Name	Sign up
Actor	First time user
Description	Request user to type username and password to be registered in the system.
Preconditions	User clicks Sign up button in the login page
Normal Flows of Events	<ol style="list-style-type: none">1. User enters username2. User enters password3. User reenters password4. User clicks submit
Post conditions	The login page appears after clicking submit button
Frequency of Use	Low
Alternative Flows	User can click cancel button to return to login page
Exceptions	<ol style="list-style-type: none">1. User does not enter username or password before submit2. Username has been registered3. The reentered password does not match the first password.
Assumptions	The application and server is running
Issues	N/A



Username

Password

☐ Remember password

LOGIN

REGISTER


Registration

User Name

Password

Confirm Password

SUBMIT



Username

Password

☐ Remember password

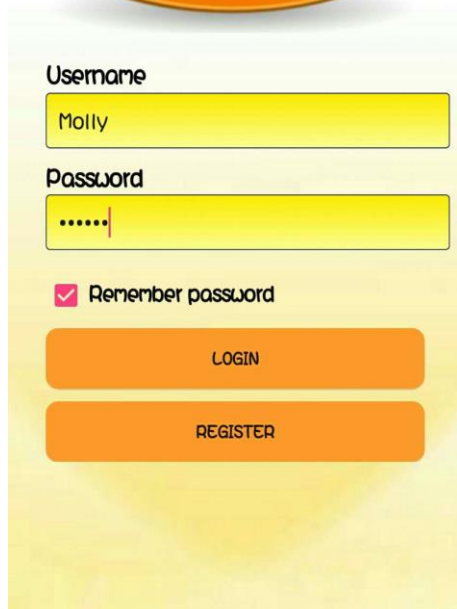
LOGIN

REGISTER

Register successful

User Case 2

User Case Name	Sign in
Actor	Registered user
Description	Request user to type username and password to login the system.
Preconditions	User clicks Sign in button in the login page
Normal Flows of Events	<ol style="list-style-type: none">1. User enters username2. User enters password3. User clicks submit
Post conditions	The login page appears after clicking submit button. Users only need to sign in the system for first time they use it. Then the system will remember their username and password.
Frequency of Use	Low
Alternative Flows	N/A
Exceptions	<ol style="list-style-type: none">1. User does not enter username or password before submit2. The username and password does not match.
Assumptions	The application and server is running and the user has signed up before.
Issues	N/A

[illegible]

User Case 3

User Case Name	Add an account
Actor	Registered user
Description	Request user to add an account
Preconditions	User has signed in and clicks the “Accounts” button in the user page.
Normal Flows of Events	<ol style="list-style-type: none">1. User clicks the “ADD ACCOUNT” button.2. User enters the name of the account.3. User clicks “ADD ACCOUNT” button.
Post conditions	If the user clicks “ADD ACCOUNT”, the system will store the account and the account will be shown on the list of accounts.
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

Balance: \$0.0

Income: \$0.0

Expense: \$0.0

ADD A RECORD

Date	Amount	Account	Description	Expense Type
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ACCOUNTSEXPENSE TYPESDETAILS

ADD ACCOUNT

Cash

Account Name

PNC

ADD ACCOUNT

ADD ACCOUNT

Cash

PNC

Account added

User Case 4

User Case Name	Update an account
Actor	Registered user
Description	Request user to update an account
Preconditions	User has signed in and clicks the “Accounts” button in the user page.
Normal Flows of Events	<ol style="list-style-type: none">1. User clicks the account the user want to edit2. User enters the name of the account.3. User clicks “Update” button.
Post conditions	If the user clicks “Update”, the system will update the account and the account will be shown on the list of accounts.
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

ADD ACCOUNT

Cash
PNC
ABC

ABC

UPDATEDELETE

ICBC

UPDATEDELETE

ADD ACCOUNT

Cash
PNC
ICBC

Account updated

User Case 5

User Case Name	Delete an account
Actor	Registered user
Description	Request user to delete an account
Preconditions	User has signed in and clicks the “Accounts” button in the user page.
Normal Flows of Events	4. User clicks the account the user want to edit 5. User clicks “Delete” button.
Post conditions	If the user clicks “Delete”, the system will delete the account and the account will be shown on the list of accounts.
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

ADD ACCOUNT

Cash
PNC
ICBC

ICBC

UPDATEDELETE

ADD ACCOUNT

Cash
PNC

Account deleted

User Case 6

User Case Name	Add an expense type
Actor	Registered user
Description	Request user to add an account
Preconditions	User has signed in and clicks the “EXPENSE TYPES” button in the user page.
Normal Flows of Events	<ol style="list-style-type: none">1. User clicks the “ADD AN EXPENSE TYPE” button.2. User enters the name of the expense type.3. User clicks “ADD EXPENSE TYPE” button.
Post conditions	If the user clicks “ADD AN EXPENSE TYPE”, the system will store the expense type and the expense type will be shown on the list of expense types.
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

Balance: \$0.0

Income: \$0.0

Expense: \$0.0

ADD A RECORD

Date	Amount	Account	Description	Expense Type
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ACCOUNTSEXPENSE TYPESDETAILS

ADD EXPENSE TYPE

Food

Expense Type Name

Rent

ADD EXPENSE TYPE

ADD EXPENSE TYPE

Food

Rent

Expense Type added

User Case 7

User Case Name	Update an expense type
Actor	Registered user
Description	Request user to update the expense type
Preconditions	User has signed in and clicks the “Expense types” button in the user page.
Normal Flows of Events	6. User clicks the expense type the user want to edit 7. User enters the name of the expense type. 8. User clicks “Update” button.
Post conditions	If the user clicks “Update”, the system will update the expense type and the expense type will be shown on the list of expense type.
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

ADD EXPENSE TYPE

Food
Rent
Entertainment

Entertainment

UPDATEDELETE

Book

UPDATEDELETE

ADD EXPENSE TYPE

Food
Rent
Book

Expense Type updated

User Case 8

User Case Name	Delete an account
Actor	Registered user
Description	Request user to add an account
Preconditions	User has signed in and clicks the “Accounts” button in the user page.
Normal Flows of Events	9. User clicks the account the user want to edit 10. User clicks “Delete” button.
Post conditions	If the user clicks “Delete”, the system will delete the account and the account will be shown on the list of accounts.
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

ADD EXPENSE TYPE

Food
Rent
Book

Book

UPDATE

DELETE

ADD EXPENSE TYPE

Food
Rent

Expense Type deleted

User Case 9

User Case Name	Add an expenses record
Actor	Registered user
Description	Request user to select resource (credit card, debit card, investments, saving, check, etc.), the type of the expense (housing, entertainment, taxes, etc.) and type in the amount of money.
Preconditions	User has signed in and clicks the “ADD AN ACCOUNT” button in the user page.
Normal Flows of Events	<ol style="list-style-type: none">1. User selects one type of the resource in the drop down box.2. User enters the amount of spend3. User selects one type of this spend in the drop down box4. User enters the description.5. User clicks submit
Post conditions	If the user chooses “Yes”, the system will store the record and the condition of assets will be updated in the Main page after calculation.
Frequency of Use	High
Alternative Flows	<ol style="list-style-type: none">1. User click “Back” to return the user page.2. User click “GSP” button to locate and the app will append the address to the description.3. User click “Camera” button to take

	a photo and the photo will save in album.
Exceptions	1. If the user clicks the “GPS” button but there is no “GPS” service, there will a notation.
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

Balance: \$0.0

Income: \$0.0

Expense: \$0.0

ADD A RECORD

Date	Amount	Account	Description	Expense Type
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ACCOUNTS

EXPENSE TYPES

DETAILS

123

Cash

Food

Orient Expression

SAVE

CANCEL

No location provider to use

123

Cash

Food

Orient Expression @ Newel

SAVE

CANCEL

Balance: \$-123.0

Income: \$0.0

Expense: \$123.0

ADD A RECORD

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food

Expense added

ACCOUNTS

EXPENSE TYPES

DETAILS

User Case 10

User Case Name	Add an Income record
Actor	Registered user
Description	Request user to select resource (credit card, debit card, investments, saving, check, etc.) and type in the amount of money.
Preconditions	User has signed in and clicks the “ADD AN ACCOUNT” button in the user page.
Normal Flows of Events	<ol style="list-style-type: none">1. User clicks the “plus” button.2. User selects one type of the resource in the drop down box.3. User enters the amount of income4. User enters the description.5. User clicks submit
Post conditions	If the user chooses “Yes”, the system will store the record and the condition of assets will be updated in the Main page after calculation.
Frequency of Use	High
Alternative Flows	<ol style="list-style-type: none">1. User click “Back” to return the user page.2. User click “GSP” button to locate and the app will append he address to the description.3. User click “Camera” button to take a photo and the photo will save in album.

Exceptions	2. If the user clicks the “GPS” button but there is no “GPS” service, there will a notation.
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

Balance: \$-123.0

Income: \$0.0

Expense: \$123.0

ADD A RECORD

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food

Expense added

ACCOUNTSEXPENSE TYPESDETAILS

+

Amount

Cash

Account

Description

SAVE

CANCEL

+

Amount

Cash

Account

Food

Expense Type

Description

SAVE

CANCEL

Your moment was saved!

+

1000

Amount

Cash

Account

Salary

Description

SAVE

CANCEL

Balance: \$877.0

Income: \$1000.0

ADD A RECORD

Expense: \$123.0

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food
11/12/2015	1000	Cash	Salary	Income

ACCOUNTS

EXPENSE TYPES

DETAILS



Download(1)



FinanceManager(2)

User Case 11

User Case Name	Check the details of records
Actor	Registered user
Description	Users can check the daily, monthly and yearly report.
Preconditions	User has signed in and clicks the “DETAIL” button in the user page.
Normal Flows of Events	1. User can swipe the screen to see the reports.
Post conditions	N/A
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

Balance: \$877.0

Income: \$1000.0

Expense: \$123.0

ADD A RECORD

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food
11/12/2015	1000	Cash	Salary	Income

ACCOUNTSEXPENSE TYPESDETAILS

RESTORE

UPLOAD

Daily Report

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food
11/12/2015	1000	Cash	Salary	Income

RESTORE

UPLOAD

Monthly Report

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food
11/12/2015	1000	Cash	Salary	Income

RESTORE

UPLOAD

Yearly Report

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food
11/12/2015	1000	Cash	Salary	Income

User Case 12

User Case Name	Upload the record to server
Actor	Register user
Description	Users can upload the records to web server
Preconditions	User clicks the “Upload” button on the detail page.
Normal Flows of Events	2. User can see the notation that “upload successfully!”
Post conditions	N/A
Frequency of Use	High
Alternative Flows	User click “Back” to return the user page.
Exceptions	N/A
Assumptions	The application and server is running and the user has signed in.
Issues	N/A

RESTORE

UPLOAD

Monthly Report

Date	Amount	Account	Description	Expense Type
11/12/2015	-123	Cash	Orient Expression @ Hamburg Hall, 4800 Forbes Ave, Pittsburgh, PA 15213, USA	Food
11/12/2015	1000	Cash	Salary	Income

Data saved on server