

COMP 3004

Group X

D1 Project Proposal

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App Name: Smart Account

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Our project is a mobile account book. Now, most people have lots of accounts, such as cash, debit card, and credit card. Though each account may have an online banking account, it only can show the transactions of this account. However, if people have more than 3 accounts, it is very difficult to manage their accounts. This app can help them list all the information of all the accounts, setting pre-authorized payments, setting direct deposit and analyzing the data of all purchases. That means this app can show all information which you need. This app includes most functions which most people will use. We want most of the people can get to know their financial balance better when they use our app and can help them manage their financial issues easily. Therefore, we choose this idea and want to develop those functions in our app. Also, our financial balance change every day, if there is a software for people to take down their cost and earning in a computer, we think most people will forget to record them after they come back home. Hence, we think this app in mobile is very useful and it can make your accounts be organizational.

Functional Properties

I. Recording

A. Creating new accounts

1. Choosing the type of account
2. Setting the amount of the account
3. Setting the note of the account

B. Recording all transaction

1. Choosing payment method
2. Entering total amount
3. Choosing the date of transaction
4. Choosing the type of transaction
5. The note of transaction

C. Viewing all transaction

1. Show payment method
2. Show total amount
3. Show the date of transaction
4. Show the type of transaction
5. Show the note of transaction

D. Setting Pre-Authorized Payment

E. Setting Direct Deposit

II. Statistics

- ### A. Show the total amount of per month, per week, or per season, etc...

- B. Show the percentage of each kind of transactions
- C. Show all data as diagram (option)
- D. Analyze a budget for next month (option)
- E. Notification of low balance

Scenarios

Recording

The first important functional property is to record all transactions. In our app, there is a big button which can help people record their transactions on the main page. When the user pushes this big button, it will show a new page called new-transaction. In this page, the user is able to enter the total amount, enter the type of the transaction and choose the account. Also, the date will get from the system time automatically. After the user entering the data, the system will save it in a database and go back to the main page.

Viewing

The second functional property is viewing all transactions. The user can sift by themselves. For example, list all transactions by time, list all transactions in one account, or list all transaction in one type of purchases. Also in those pages, the user can click one of those transactions and edit the transaction. In the editing page, there is a button called refund. If the user clicks this button, the app will create a new refund transaction which deposits the same amount in the same account.

Per-Authorized Payment

This function is very useful. The user can set some pre-authorized payment for the water bill, hydro bill and gas bill, etc. For example, the user sets a pre-authorized payment in the end of every month. Five days before the last day, when the user opens the app, it will ask the user import the amount of the bill and remind the user to deposit the amount into the account which will be withdrawn from the company. On the setting date, the app will create a new transaction of the pre-authorized payment.

Non-Functional Properties

The first non-functional property is usability requirement. In our app, all important buttons are extremely big and easy to find. Each person can learn how to use our app in a short time. Also, our app will cover most of situations that might happens in our life, such as pre-authorized payment and separated bill. Because our app is an account book in mobile, we think how to give users a comfortable and convenient experience is important. Our aim is to help the users spend the less time on recording all transactions and managing all accounts. Therefore, the usability requirement is required by our app.

The second non-functional property is security requirement because our app needs to record all personal financial information. We need finish security requirement to protect the privacy of every user. In our mind, we want to give our users a chance to set a password to get the permission of entering their app.

Main

7:00			
Income: x x x x			
Cost: x x x x			
Recording			
A	B	C	D

Recently transactions

A=Transactions (I→C)

B=Accounts (I→A)

C=Statistic (II)

D=Setting

B: Accounts (I→A)

7:00			
Balance: _____			
Add a new Account			
Cash			
CHA			
SAV			
Credit			
⋮			
A	B	C	D

Accounts

If click account, it will be page

A: Transactions filter by accounts

Recording: (I→B)

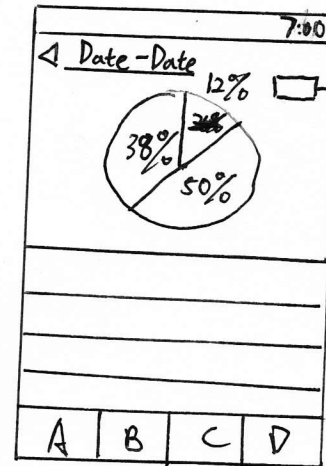
A: Transactions (Point: I→C)

7:00			
Balance: _____			
2017/1/1-2017/9/20			
A	B	C	D

Recently transactions

button: filter by (Accounts, Date, Type)

C: Statistic (II)



choose graph type

Analyze the expenses

PS: Pre-Authorized Payment is in Setting page.

7:00			
cost / earn / ...			
\$0.00			
Account: Cash			
Type: Dinner			
Date:			
Note:			
A	B	C	D