

CapStoneProject

**Penny**

Version 1.0

Submitted by,

CapStone 4

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**Course**

Mobile Solutions Development

(Optional Co-Op)

Conestoga College

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# **1. PROJECT OVERVIEW**

## **1.1 Purpose of application**

Penny is a free and Opensource Expense tracking Application for iPhone, where users can easily keep track of all their expenses without any annoying ads and it's completely offline with no access permissions necessary or worrying about privacy issues.

There are already several banking apps which have transactions recorded and shows about incomes and expenses. Penny comes in handy if the user is using multiple banks or wanted to record every penny that they spend.

## **1.2 Development Environment**

- XCode 13.1
- Swift 5
- iOS 12

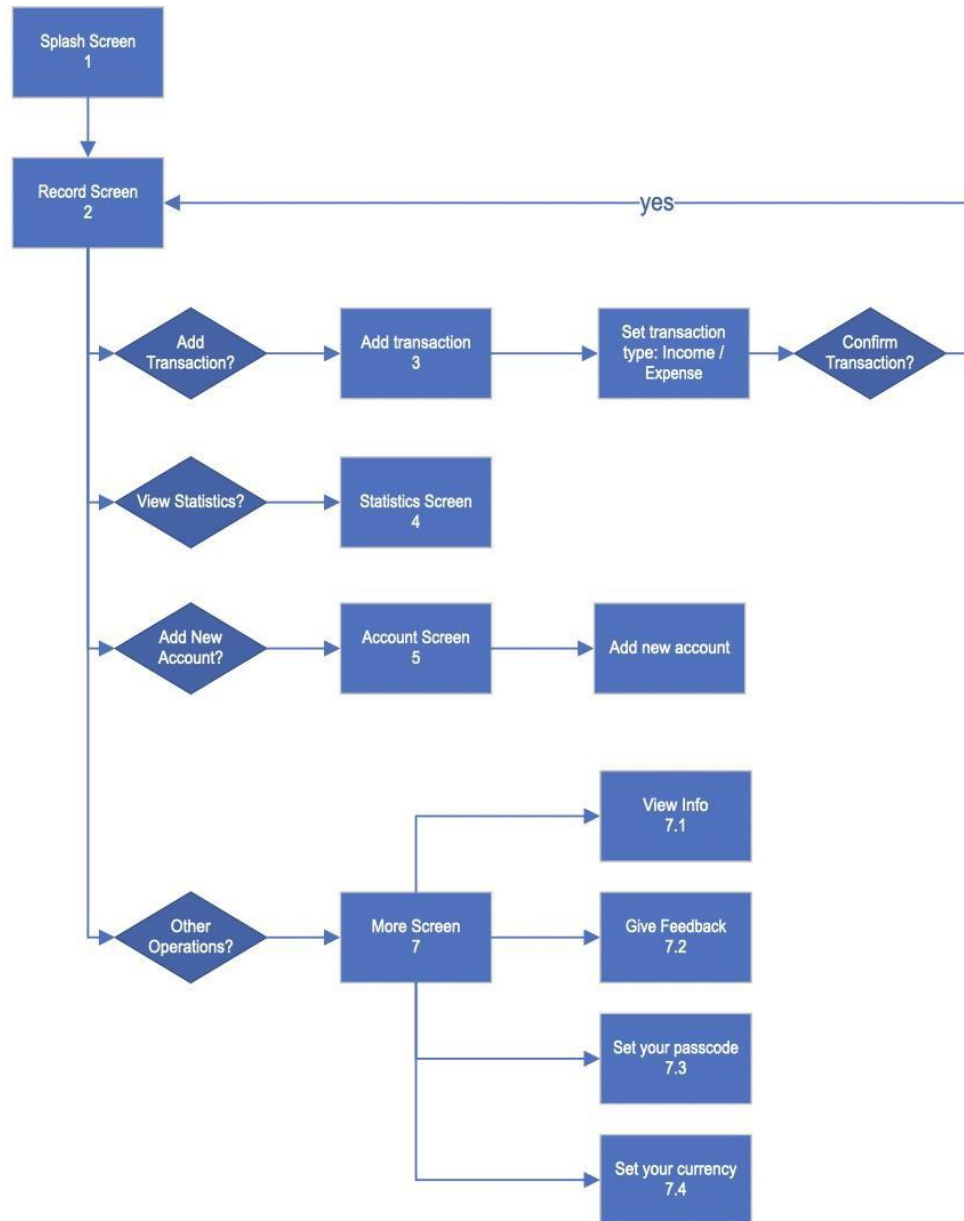
## **1.3 Technologies/ Tools**

- iOS stimulator
- Adobe XD
- Visio
- GitHub

## **1.4 Third party libraries**

- Charts

## 2. BLOCK DIAGRAM



### 3. FUNCTIONAL REQUIREMENT

#### 3.1 Splash screen

**Purpose:** The first screen that is shown to the user while opening penny app

3.1.1 App name

3.1.2 App icon

3.1.3 Caption

#### 3.2 Record Screen

##### 3.2.1 Transaction

3.2.1.1 Transaction date

3.2.1.2 Transaction time

3.2.1.3 Type

3.2.1.4 Category

3.2.1.5 Amount

3.2.1.6 Note

3.2.2 Daily/Monthly / Weekly transaction view

3.2.3 Income

3.2.4 Expense

3.2.5 Balance

#### 3.3 Add/Edit Transaction

**Purpose:** Income and Expense tabs for user to add/edit transaction

##### 3.3.1 Income

3.3.1.1 Current date and time - Required

3.3.1.2 Account - Required

3.3.1.3 Category of transaction-Required

3.3.1.4 Amount of transaction - Required

3.3.1.5 Note about transaction - Required

##### 3.3.2 Expense

3.3.2.1 Current date and time- Required

3.3.2.2 Account – Required

3.3.2.3 Category of transaction-Required

- 3.3.2.4 Amount of transaction- Required
- 3.3.2.5 Note about transaction - Required
- 3.3.3 Add/edit transaction
- 3.3.4 Delete transaction

### 3.4 Statistics Screen

**Purpose:** Graphical representation of records. Options to see weekly and monthly representations of transactions with respect to user accounts

- 3.4.1 Graph
  - 3.4.1.1 Monthly/weekly

### 3.5 Account Screen

**Purpose:** List of existing accounts added by the user

- 3.5.1 Accounts
  - 3.5.1.1 Account name
  - 3.5.1.2 Liability
  - 3.5.1.3 Total
  - 3.5.1.4 Note

### 3.6 Add/ edit Account Screen

**Purpose:** Used to add/edit new account

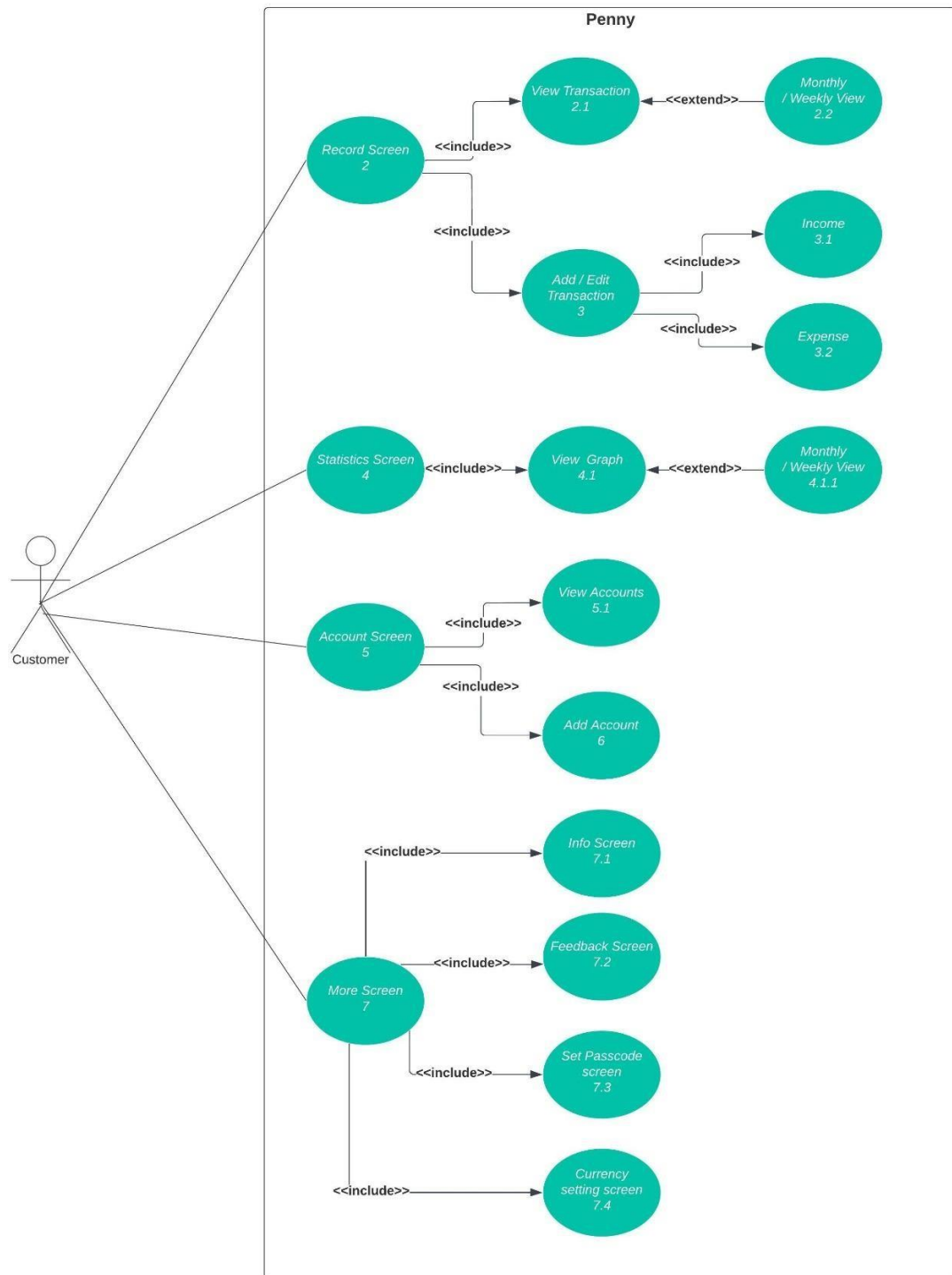
- 3.6.1 Name – required
- 3.6.2 Amount – Optional
- 3.6.3 Note – Optional
- 3.6.4 Save account

### 3.7 More Screen

**Purpose:** Additional settings for the application.

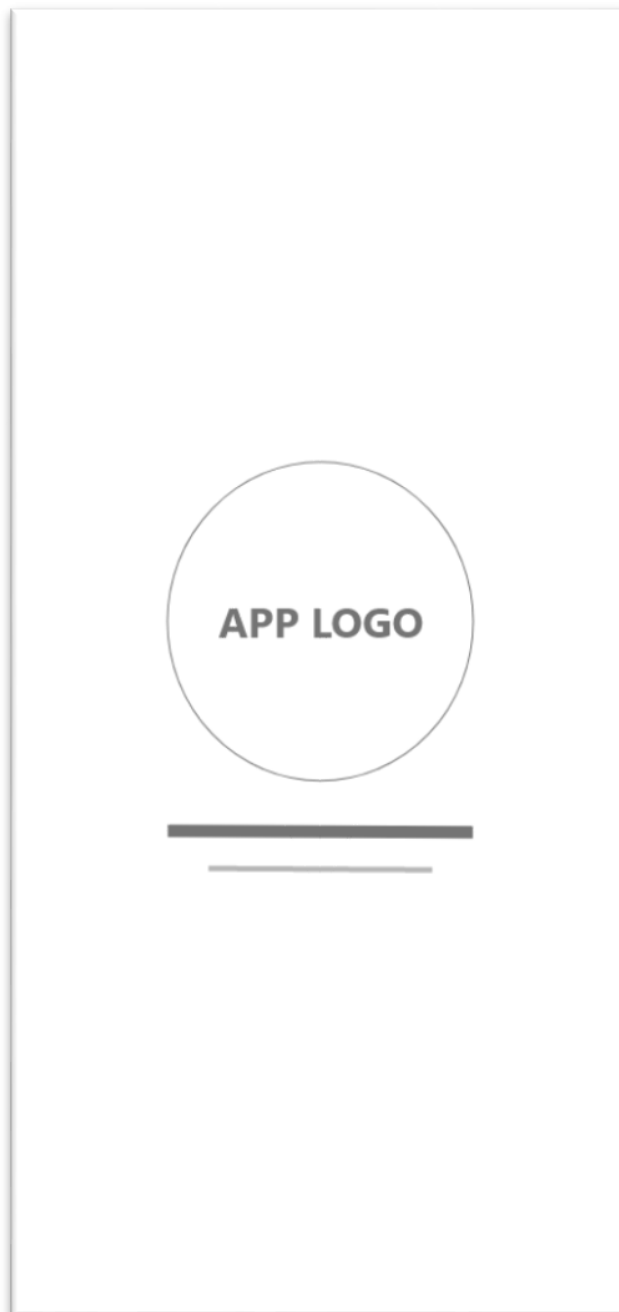
- 3.7.1 Info about app
- 3.7.2 Send feedback about the app
- 3.7.3 Optional passcode to secure app access
- 3.7.4 Main currency setting

## 4 USE CASE DIAGRAM



## 5 WIREFRAMES

### 5.1 Splash Screen





5.2 Record Screen



### 5.3 Add/ Edit Transaction Screen

<

Transaction

EXPENSE

Income

Expense

Date

Account

Category

▼

Amount

Note

Add

## 5.4 Statistics Screen



5.5      Accounts Screen

ACCOUNTS

+

Account	Liabilities	Total
0.000	0.000	0.000

Records

Statists

Accounts

More

## 5.6 Add/ Edit Account Screen

[<](#) Accounts

ADD

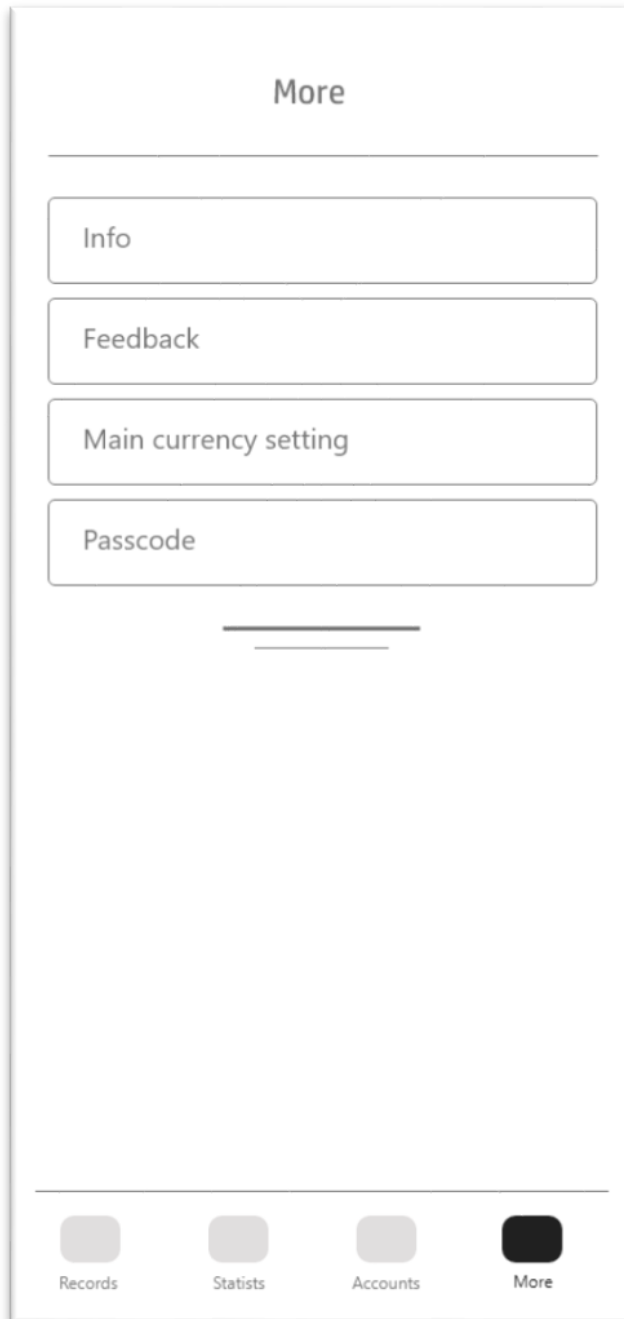
Name

Amount

Note

Save

## 5.7 More Screen



## 6 WORK ASSIGNMENT

- **Anjana Varadan** - Account and Add / Edit accounts, UI/ UX.
- **Thejas Kunnemkerikalam Thomas** - Statistics page and Documentation.
- **Anu Benoy** - Category page and Add / Edit category, UI/ UX.
- **Amal Sethunath** - More page and Documentation.
- **Jiya Joy** - Add / Edit transactions and Documentation.
- **Alan Sebastian Mathew** - Records screen, UI/ UX, Code Structuring.