Calvin Le
cle@ltu.edu
219

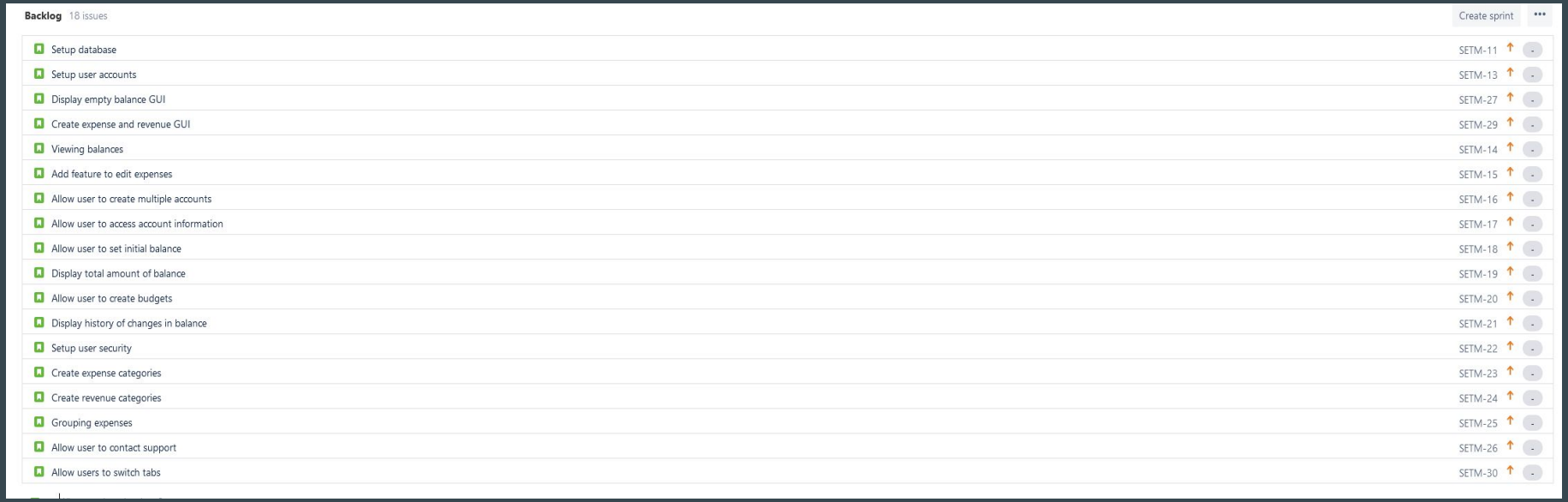
Austin Ramsey
aramsey@ltu.edu
074

Mitchell Browe
mbrowe@ltu.edu
055

Student Expense Tracker and Manager

MCS 2613; Assignment 7

Task Backlog



Availability Calculations

Team: 3 People

Capacity per day: 2 hours

Duration of Sprint: 1 week (5 days)

Total Capacity = (3 * 2 * 10) = 30 Hours

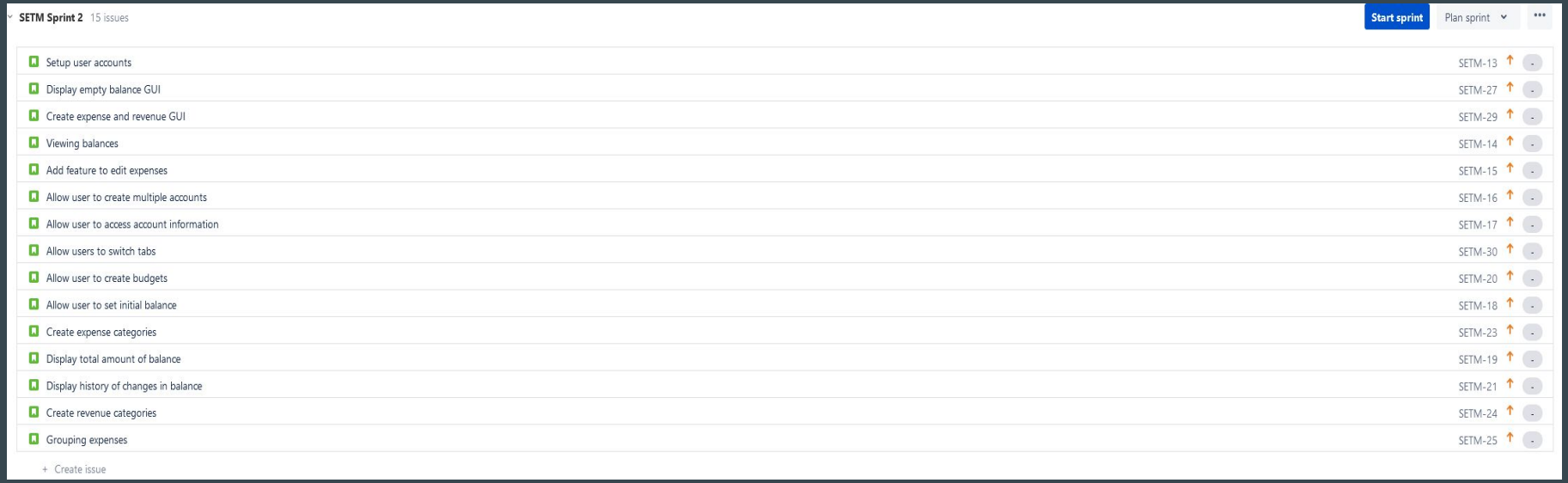
Focus Factor (F.F.) = 0.6

Real Capacity = 30 * 0.6 = 18 Hours

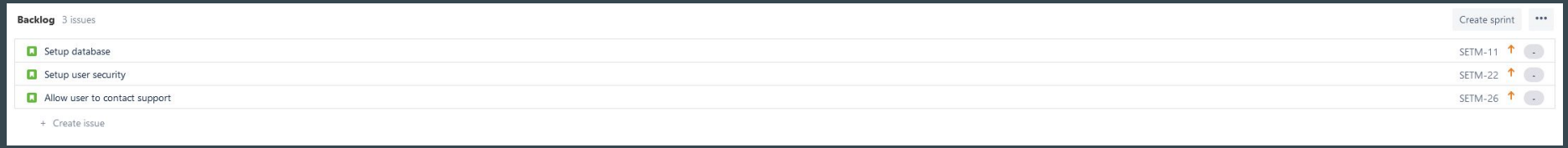
Sprint Goal

Display balances and allow user to create an account and insert expense and income entries.

Sprint Backlog (After Planning)



Task backlog (What is remaining)



Scrum Meeting Notes

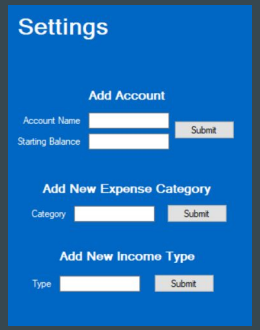
Our team gives status on the implementation of features and discussed what is needed to be done in the sprint backlog.

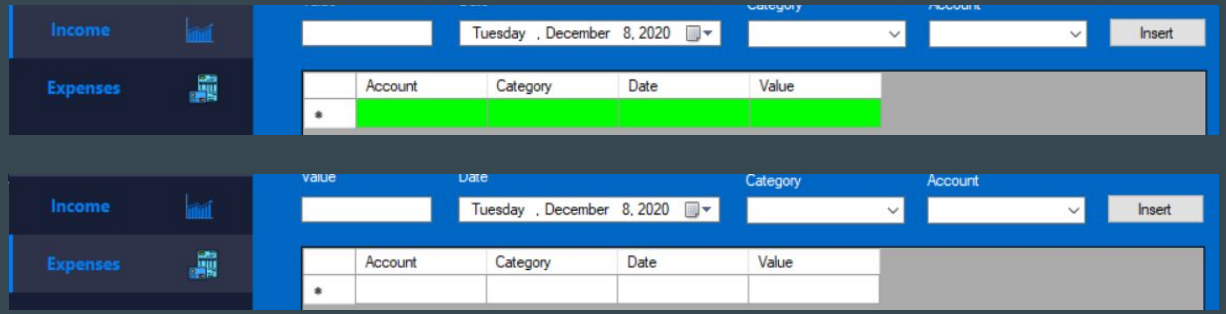
We also discussed availability and priority of tasks before reaching the deadline.

Test Plan Document

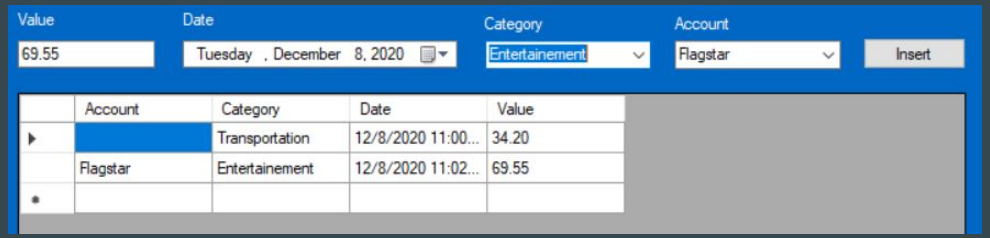
Testing consists of using different functions with known valid and invalid inputs.

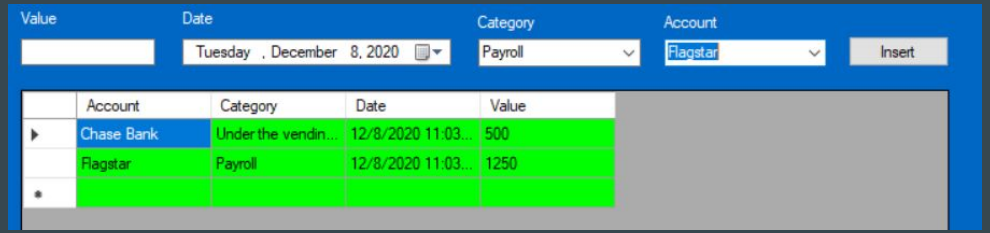
- Using setup GUI, ensure that new account info is properly retained and displayed.
- Program prompts to create new Accounts, Categories, and Incomes.
- Ensure that the Expense and Income tabs will accept and display amounts, categories, accounts, and dates properly.
- Program should display proper messages once actions are successful.





QA Test Results





- Error: Program wrongly accepts inputs without specifying account names.
- Program accepts inputs of new accounts and displays them for selection on Income and Expense.
- Program accepts inputs of new expense categories and displays them for selection.
- Program accepts inputs of new income categories and displays them for selection.

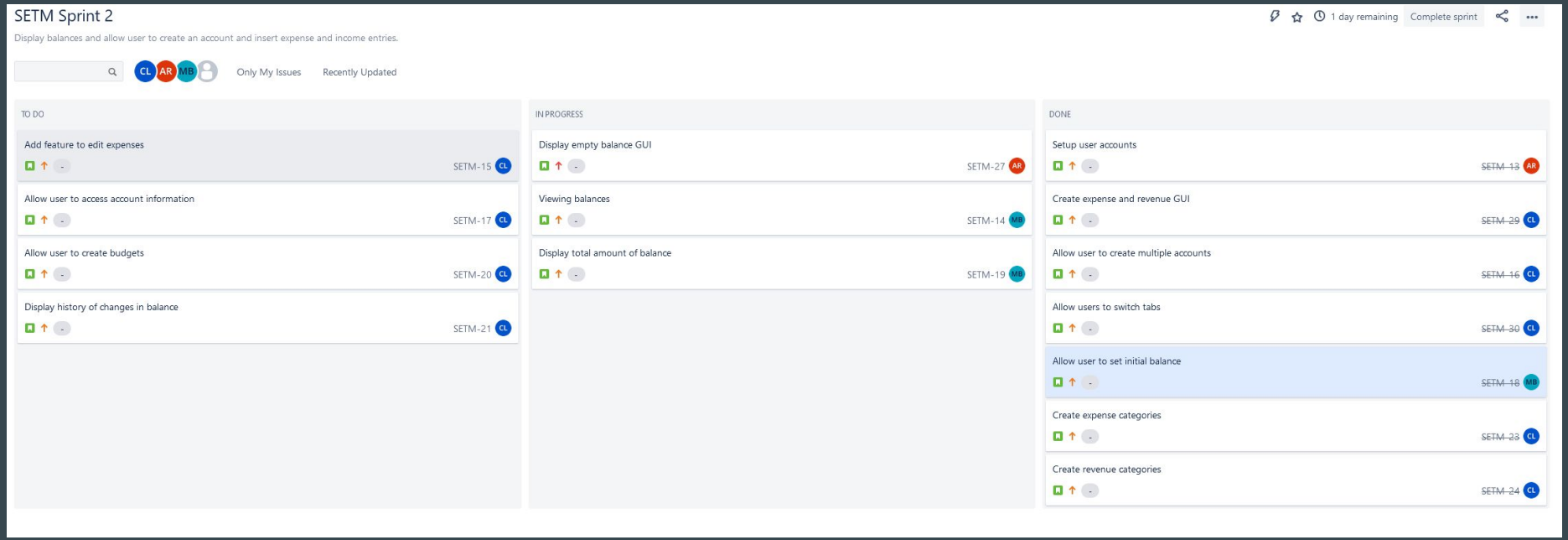
Updated Backlog

Workload by assignee - SETM Sprint 2

Assignee	Issues	Story Points
Unassigned	0	0
AR Austin Ramsey	2	0
CL Calvin Le	9	0
MB MItchell Browe	3	0

Setup user accounts	AR	~~SETM-13~~
Display empty balance GUI	AR	SETM-27
Create expense and revenue GUI	CL	~~SETM-29~~
Viewing balances	MB	SETM-14
Add feature to edit expenses	CL	SETM-15
Allow user to create multiple accounts	CL	~~SETM-16~~
Allow user to access account information	CL	SETM-17
Allow users to switch tabs	CL	~~SETM-30~~
Allow user to create budgets	CL	SETM-20
Allow user to set initial balance	MB	~~SETM-18~~
Create expense categories	CL	~~SETM-23~~
Display total amount of balance	MB	SETM-19
Display history of changes in balance	CL	SETM-21
Create revenue categories	CL	~~SETM-24~~

Final Sprint Backlog

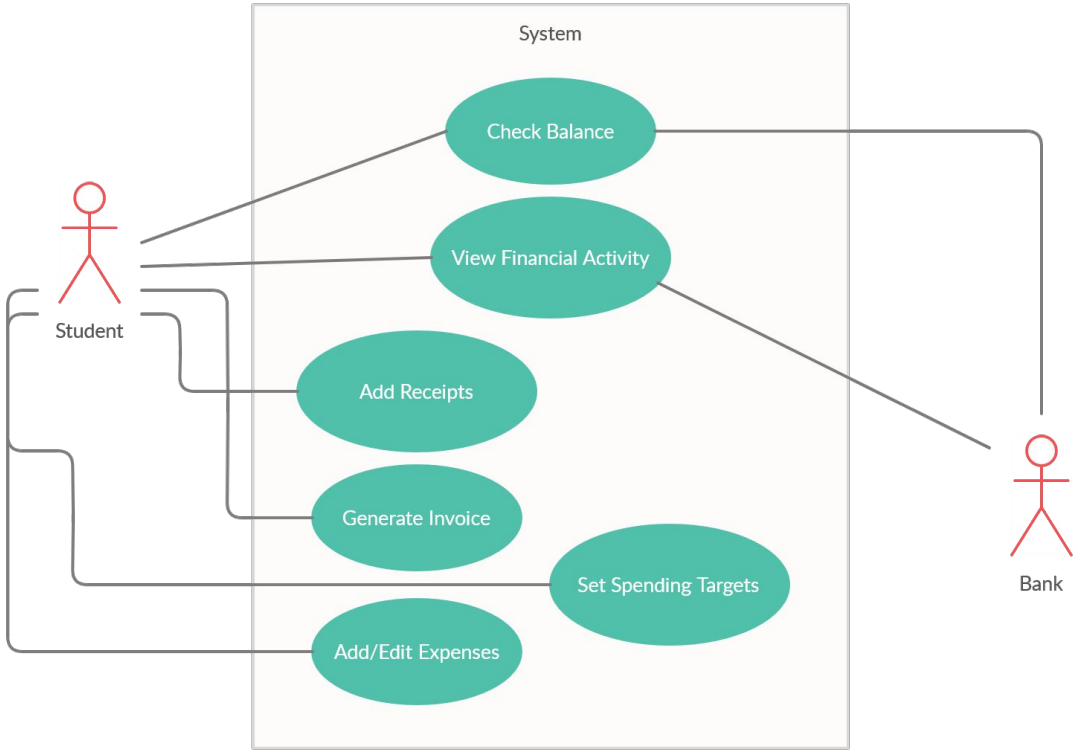


Task Backlog

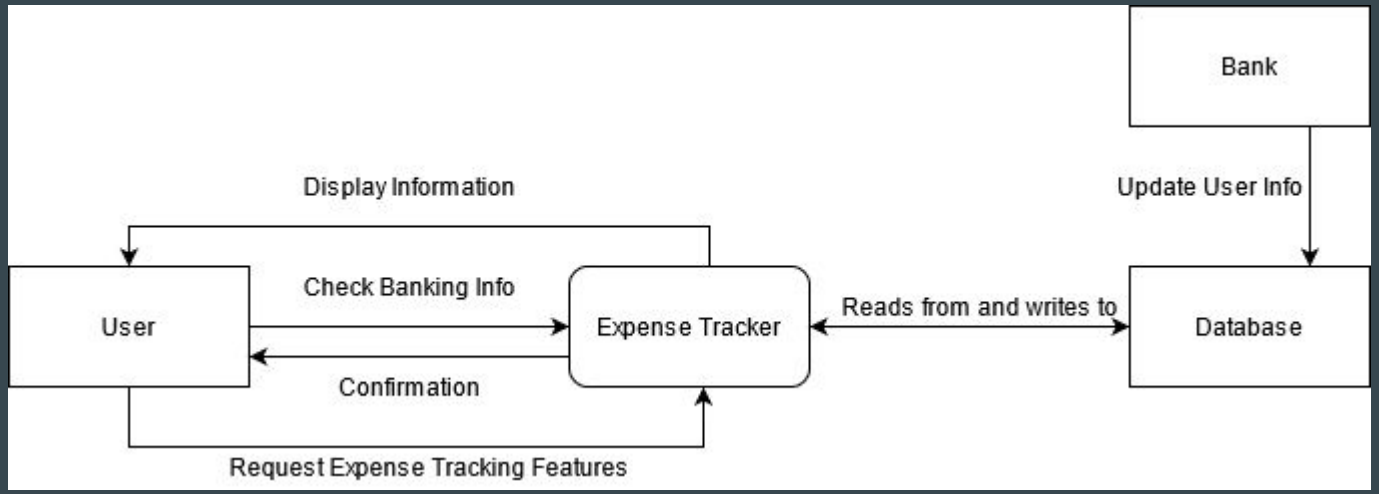
Requirement Statements

- The application shall display basic banking information to the user upon opening the application.
- The application shall include the option to view recent financial activities from the user.
- The application shall generate a report of all financial activities ranging from certain dates.
- The application shall allow the user to save their receipts on purchases.
- The application shall provide users with the capabilities of editing and adding expenses.
- The application shall allow users to set a spending target from transactions.

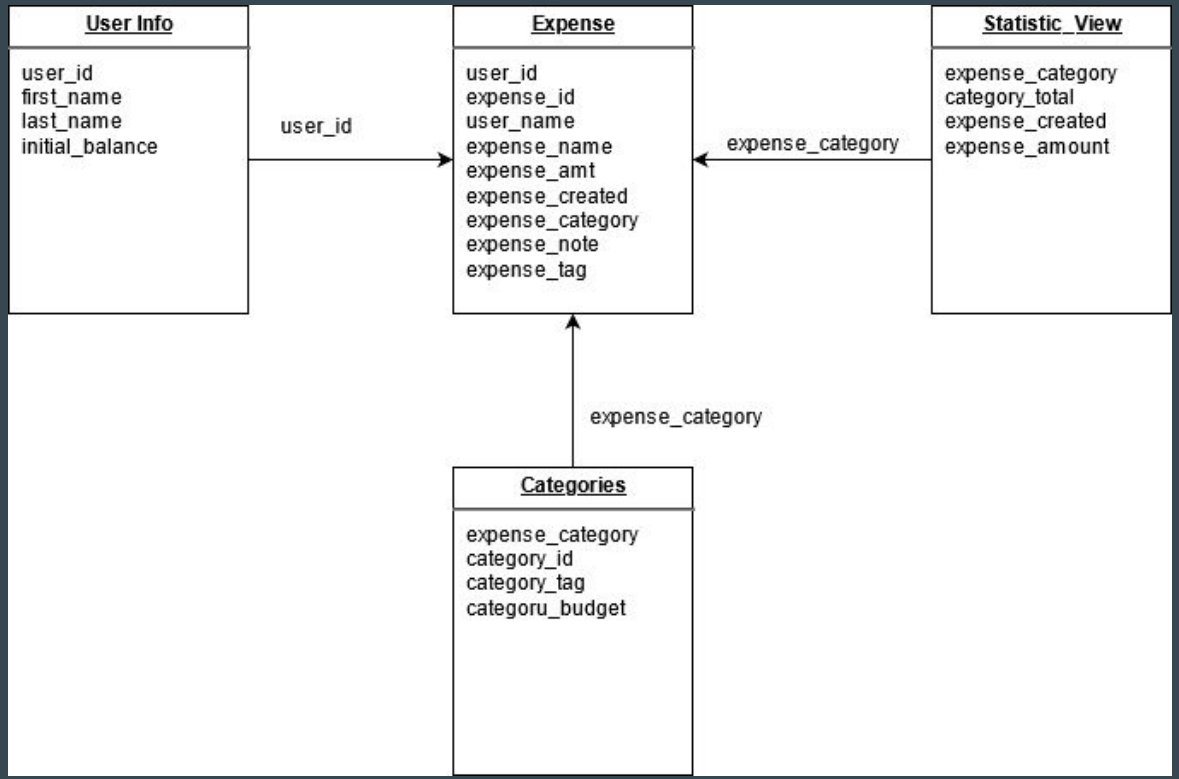
Use-Case Scenarios



System Architecture



DB Schema


User Info
user_id
first_name
last_name
initial_balance
user_id
Expense
user_id
expense_id
user_name
expense_name
expense_amt
expense_created
expense_category
expense_note
expense_tag
expense_category
Statistic_View
expense_category
category_total
expense_created
expense_amount
expense_category
Categories
expense_category
category_id
category_tag
categoru_budget

Project Retrospective

Good:

- We were able to implement an application that covers some basic functionalities
- Planning was better this sprint than last sprint

Bad:

- Communication were still overall bad.
- Preparation for the presentation playback felt a bit rushed.
- Problems updating and modifying source code

Honor Code

I have neither given nor received unauthorized aid in completing this work, nor have I presented someone else's work as my own.