EECS 2311 Group 2
Iteration 3: Software Development Project, Time to Release
PENNY PLANNER

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Revisions from Itr2 to Itr3

Below is a structured report detailing the revisions and developments from Iteration 2 (IT2) to Iteration 3 (IT3) for our application:
This report outlines the key changes and enhancements made to our application transitioning from Iteration 2 (IT2) to Iteration 3 (IT3). It highlights the shift in implementation priorities, introduction of new features, modifications to the graphical user interface (GUI), addition of user stories, and adjustments to the team.

ITR2 to ITR3

Several enhancements and new features were introduced to improve user interaction and functionality. The time period functionality was refined to offer users a more flexible representation of financial data over selected months. Facing unexpected team absences, our software development team demonstrated adaptability, communication, and resilience, key traits for project success. Nabeela stepping in to create a crucial video in Farzin's absence and Ahmed covering for Corinthe's ITR3 user story are prime examples of our team's flexible approach to sudden changes. Quick reassignment of tasks and effective communication ensured uninterrupted progress, while the team's commitment to filling in gaps highlighted their resilience and collective dedication to the project's goals. This experience not only kept our project on track but also reinforced the value of a supportive and adaptable team environment in overcoming challenges.

New Features

-A significant update includes the ability to delete income entries, giving users better control over their financial records.
-The portfolio section now features a time-selector tool, enabling users to see their portfolio information from a starting month to a finishing one.
-For users dealing with multiple currencies, the application now displays real time conversion rates to ensure accuracy. This is complemented by a new feature to refresh conversion rates, allowing users to obtain the most current information with a single click.
-The application now supports viewing the remaining loan amount, providing users with clear insights into their debt reduction progress.
-The savings calculator feature has been modified, offering users a comprehensive view of their inputed savings over time, which aids in tracking progress towards savings goals.
-During the final stages of our project, we focused intensively on fixing bugs and addressing code smells to ensure our software ran smoothly. This involved a collaborative effort to identify, log, and rectify various issues, from minor user experience glitches to significant functionality

bugs. Our approach to bug fixes was methodical, involving thorough analysis, resolution, and testing to ensure comprehensive coverage.

-In parallel, we embarked on a refactoring journey to eliminate code smells, enhancing our code's readability, maintainability, and performance. Efforts included consolidating duplicate code, breaking down long methods into smaller functions, replacing magic numbers with named constants, and removing dead code. This not only improved our project's immediate quality but also set a higher standard for future development practices.

-This rigorous phase of debugging and refactoring significantly contributed to a more robust and user-friendly application, reflecting our team's commitment to quality and efficiency. The process was a valuable learning experience, emphasizing the importance of clean code and continuous improvement in software development.

These updates collectively enhance the application's usability, financial management capabilities, and user engagement.

Big User Stories

Login and Sign Up Page

As a new user,
I want to be able to create and own an account on the platform
so that I can personalize my experience and access exclusive features.

Financial Analysis

As a new user,
I want to be able to see my investments, savings and a financial summary page

User Interaction

As a new user,
I want to be able to navigate through the platform to view my income, expenses and other information

Iteration 1 Detailed User Stories

User story checklist ITR1:

- [x] Login
- [x] Display Expense
- [x] Display Investment
- [x] Determine Savings
- [x] Monthly Summary page
- [x] Display Loan Calculator

Ahmed

Login

User Story for Login:
As a registered user,
I want to be able to log into my account on the platform, so that I can personalize my experience and access exclusive features available only to members.

Priority: High

Cost: 4 days

Corinthe

Display Expenses

As a new user,
I want to be able to be able to input and keep track of my monthly expenses in the application

Priority: High

Cost: 4 Days

Oubai

Display Investments

As a new user,
I want to be able to check on my investment portfolio, see what I own and my investing gains/losses

Priority: Low

Cost: 3 Days

Kennie

Determine Savings

As a new user,
I want to be able to calculate my savings using my Income and Expenses

Priority: Medium

Cost: 3 days

Farzin

Monthly Summary Page As a new user, I want to be able to see a visual summary of my expenses and income for different months so that I can have a small understanding of my finances. Priority: Medium Cost: 5 Days

Sarimah

Display Loan Calculator As a user, I want to be able to view my loans and see how much I need to save in order to pay off my loans within a certain time period. Priority: Low Cost: 2 days

Iteration 2 Detailed User Stories

User story checklist ITR2:

- ☑ Registration
- ☑ Display menu/Add dropdown to the All pages
- ☑ Monthly summary page
- ☑ Display income
- ☑ Add Income sources

- ☑ Add Investment Prediction page
- ☑ Display savings
- ☑ Changes to the loan calculator
- ☑ Currency Converter

  Includes previous user stories that needed completion

Additional implementations:

- ☑ Database Implementation
- ☑ Update wiki
- ☑ Update Log
- ☑ Test Cases
- ☑ Modify UI for some user stories

Ahmed

Registration

As a new user,
I want to be able to create an account on the platform,
so that I can register my personal details and become a member of the community.

Priority: Medium   Cost: 3 Days

Display menu

As a new user,
I want to be able to Navigate through the application for efficient use of the financial tracker.

Priority: High

Cost: 2 days

Farzin

Monthly Summary Page

As a new user,
I want to be able to see a visual summary of my expenses and income for the year so that my summary changes from month to month according to the tabs at the bottom.

Priority: Medium

Cost: 3 Days

Oubai

Compound Page

As a user,
I want to be able to predict my compounding earnings by giving various parameters I can adjust.

Priority: Medium | Cost: 3 Days

Corinth

Display Income

As a new user,
I want to be able to be able to input and keep track of my monthly income and calculate how much I make in every financial quarter of the year.

Priority: High | Cost: 1 day

Income source

As a new user,
I want to be able to add multiple sources of income to the application,
So that I can accurately track all my different earnings in one place for better financial management.

Priority: High Cost: 1 day

Kennie

Display my Savings

As a new user,
I want to be able to see a visual summary of the savings that I calculated through a graph

Priority: Medium Cost: 4 days

Sarimah

Update to Loan Calculator

As a user,
I want to be able to view my loans and see and edit the day the loan term begins and when the I will finish paying off the loan.

Priority: Low

Cost: 2 days

Nabeela

Currency Converter

As a user,
As a user, I want to convert amounts between different currencies so that I can understand the value of money in foreign terms for travel, trade, or personal interest.

Priority: Low

Cost: 3 days

Iteration 3 Detailed User Stories

User story checklist ITR3:

- [x] Time period
- [x] Delete income
- [x] Portfolio Time-Selector
- [x] Display Conversion Rates
- [x] Fetch real-time conversion rates
- [x] Refresh Conversion Rates

- [x] View Remaining Loan Amount
- [x] View Savings history

Oubai

Portfolio Time Selector As a user, I want to be able to see my portfolio informations from a starting month to a finishing one. Priority: Low Cost: 2 Days

Ahmed

Delete Income As a user of the financial tracking application, I want to be able to delete an existing income source from my income table, So that I can keep my income records accurate and up-to-date, especially if an income source becomes irrelevant or was added by mistake. Priority: High Cost: 3 Days

Time Period

As a user of the financial tracking application,
I want to be able to navigate through different time periods,
So that I can view my history and accurately assess my finances

Priority: High
Cost: 3 Days

Nabeela

Display Conversion Rates

As a user, I want to visually be able to see the current conversion rates displayed on a graph so that I may be able to make informed decisions before making a conversion.

Priority: Low
Cost: 2 Days

Fetch Real Time Conversion Rates

As a user, I want the application to fetch real time conversion rates so that my conversions are accurate and up to date.

Priority: Medium
Cost: 3 Days

Refresh Conversion Rates

As a user, I want to be able to refresh the conversion rates as I am using the application for the most accurate and up-to-date conversions.

Priority: low

Cost: 2 days

Sarimah

Update to Loan Calculator

As a user,
I want to be able to view my loans and see how much of the loan i have left to pay off and save their information

Priority: Low

Cost: 2 days

Kennie

Update to Savings As a user, I want to be able to view my savings and compare it with my savings goal at different time periods. So that I can view my savings history and accurately assess my finances Priority: Low   Cost: 3 days

Interview 2 link:
https://youtu.be/KCIDTyBIZZw