FEATURES

Pseudo-Feature: App Setup

- **User Story:** Setup File Architecture
  - o **Dev Task**: Setup main folder with appropriate folders (application, business, persistence, presentation, objects)
- **User Story:** DSOs
  - o **Dev Task**: User Object
  - o **Dev Task**: Entry Object
- **User Story:** Create Database Interface
  - o **Dev Task**: User persistence
  - o **Dev Task**: Entry Persistence
- **User Story:** Setup Stub Database
  - o **Dev Task**: User Stub
  - o **Dev Task**: Entry Stub
- **User Story:** Setup UI Skeleton
  - o **Dev Task**: Add UI navigation bars. Setup needed fragments and activities.
- **User Story:** Create Databases
  - o **Dev Task**: User Database
  - o **Dev Task**: Entry DB

ACCOUNT: FEATURES

Feature: Account Management (Core functions of an account)

- **User Story:** Create an account. "As a university student managing tuition payments, I want to create an account to start tracking my finances." (high)
  - o **Dev Task**: Create launch and signup pages
  - o **Dev Task**: Create logic to store account information
- **User Story:** Log in and log out. "As a user, I want to log in & out securely to manage finances." (high)
  - o **Dev Task**: Create login page
  - o **Dev Task**: Create logout button and implementation
  - o **Dev Task**: Create home, analytics, tracking, and profile fragments
  - o **Dev Task**: Create logic to validate user credentials at login
- **User Story**: Profile Dashboard: "I want a place to see & change any details for my account" (high)
  - o **Dev Task**: Design UI
  - o **Dev Task**: Settings placeholders
  - o **Dev Task**: Implement settings (8h)

Feature: Account Editing (Make changes to account)

- **User Story**: Change password. "As someone concerned about security, I want to change my password to protect my financial data." (medium)
- **User Story**: Delete account. "As a user no longer needing the app, I want to delete my account and clear all my data." (low)
- **User Story**: Edit Account. "As a newlywed, I want to change my name to match my status." (low)

ACTIVITY TRACKING: FEATURES
(ACCESSED VIA TRACKING ICON)

Feature: Income Tracker
- **User Story:** *Log income (one-time). "As someone that works part-time and has a different number of hours from week-to-week, I'd want to log my income because my pay isn't a fixed amount". (high)*
  - ○ **Dev Task**: *Create logic to validate entry, Entry Validator Class.*
  - ○ **Dev Task**: *Create logic to create the object and send it to the database, Entry Service Class.*
  - ○ **Dev Task**: *Create the Entry Database in persistence layer.*
  - ○ **Dev Task**: *Update UI in Income fragment, create ADD button, navigation, and implementation.*
  - ○ **Dev Task**: *Input Error Handling. Use Validator to assist when adding new entry.*
- **User Story:** *See my income activity history. (high/medium)*
  - ○ **Dev Task**: *Create snapshot view in recycle viewer of historical entry history.*
  - ○ **Dev Task**: *Create detail fragment on historical entry history (and button to edit/delete entry).*
- **User Story:** *Edit/Delete income entry. "As someone that is clumsy, I'd want to edit my income logs in case I make a mistake." (medium)*
  - ○ **Dev Task**: *Implement update an income entry.*
  - ○ **Dev Task**: *Implement delete and income entry.*

Feature: Expense Tracker
- **User Story:** *Log one-time expenses. "As a frequent shopper, I want to be able to log my one-time purchases because I buy different things each time I visit the mall." (high) (Prit)*
  - ○ **Dev Task**: *Similar as above.*
- **User Story:** Expense history. (high/medium) (Max)
  - ○ **Dev Task**: *Implement snapshot and full detail history. Similair as above.*
- **User Story:** Edit/Delete expense entry. "As a Netflix subscriber, I'd want to be able to edit my recurring expenses because Netflix changes their prices often". (medium) (Alanna)
  - ○ **Dev Task**: *Implement edit/delete similar as above.*

Feature: Savings Tracker
- **User Story:** Add a savings goal. "As someone saving for a vacation, I want to set a savings goal so I can see how much more I need to save each month to reach it". (high)
  - ○ **Dev Task**: Implement fragment and logic to add a new savings goal.
- **User Story:** Allocate money toward a savings goal. "As someone saving for a car, I'd want to record each time I put money away toward my goal". (high)
  - ○ **Dev Task**: Implement ability for user to add money into this specific piggy bank.
- **User Story:** Edit/Delete Savings goal. "As someone saving for a car, I'd want to record each time I put money away toward my goal". (high)
  - ○ **Dev Task**: Implement ability for user to edit a savings goal, or delete a savings goal.
- **User Story:** Mark a goal as complete. "As someone saving for a car, I'd want to record each time I put money away toward my goal". (high)
  - ○ **Dev Task**: Implement logic and UI to indicate a savings goal has been met.

ANALYTICS: FEATURES
(ACCESSED VIA ANALYTICS TAB)

Feature: Summary Section

- **User Story**: View all activity log. "I want to be able to see all my past logged entries so I can be thorough and see my activity in detail." (medium)
  - o **Dev Task**: Implement snapshot of recent activity (5 most recent activities of any type).
  - o **Dev Task**: Implement navigation to full activity log of any type (similar as above).
- **User Story**: View pie chart. "I want to see my expenses, income, and savings in a pie chart to easily and conveniently view my finances." (medium)
  - o **Dev Task**: Implement logic and UI to display a pie chart to show a sum of income vs expenses vs savings. Start with only monthly for now.
- **User Story**: View data weekly, monthly, and annually. "As someone tracking long-term financial trends, I want to see my data for each month or year so I can track my spending and savings." (low)
  - o **Dev Task**: Implement logic and UI buttons to switch graph between weekly monthly or annual graph summaries (could be histogram or line graph, etc.).
    - ▪ Example: Line graph shows three colour lines of income, expense, and savings trends.
    - ▪ Example: Three colour pie chart switches between weekly, monthly, or annual totals.

Feature: Incomes Section

- **User Story**: View INCOME totals. View as a pie chart. "I want to view all my incomes streams." (med)
  - o **Dev Task**: Implement logic and UI to display a pie chart to show all income streams in comparison. Example: Total Income $2000; pie chart specifies $1000 FT Job, $100 Allowance, $400 PT Job, and $500 Investments.
- **User Story**: View income activity as a timeline graph.
  - o **Dev Task**: Implement a timeline graph showing date on the x-axis & income addition on y-axis.
- **User Story**: Change Income Graph Frequency. Adapt the above two to include weekly, monthly, or annual options. So view totals or view activity in terms of weekly/monthly/annually via buttons.
  - o **Dev Task**: Add weekly & annual options of viewing the above user stories (totals, timeline).

Feature: Expenses Section

- **User Story**: View Expense totals. View as pie chart. "As someone that buys a lot of things, I want to see all my different expenses in comparison" (**high**)
  - o **Dev Task**: Implement logic and UI to display a pie chart to show all expense in comparison.
- **User Story**: View expense activity timeline.
  - o **Dev Task**: Implement a timeline graph showing date on the x-axis & expense amount on y-axis.
- **User Story**: Change Expense Graph Frequency.
  - o **Dev Task**: Implement weekly and annual options of viewing the above user stories (totals and activity timeline).

Feature: Savings Section

- **User Story**: View savings progress bars for each of my goals. "As someone paying off several loans and working toward a savings goal, I want to track progress towards my goals" (**high**)
  - o **Dev Task**: Progress bars for each savings inputted; example achieved Car 50%, House 20%, Tuition 20% of items total (Car $2500/$5000 and so on).
- **User Story:** View Savings Totals as pie chart. Show totals, and comparison of savings goal in pie chart.
- **User Story:** View Savings activity timeline.
- **User Story:** Change Savings graph frequencies.

OPTIONAL/ADDITIONAL FEATURES

Feature: Personal Customizations
- **User Story**: Add/Change profile picture. "As a user, I want to update my picture to personalize my account." (low)
- **User Story**: Dark Mode. "As someone who works late into the night, I want a dark mode option to reduce eye strain while using the app." (low)

Feature: View Awards and Badges
- **User Story**: Achievement Awards. "As a busy worker, I want to receive awards to help motivate me to reach my financial goals."
- **User Story**: Profile Badges. " As a busy student, I want profile badges to motivate me and help me remain active in logging my activity."
- **User Story**: Streaks. "As someone who gets distracted, I want to stay accountable with streaks, so I can see how consistent I am with my financial habits."

Feature: 2D "Buddy" Display
- **User Story**: Budget Buddy. "I want Budget Buddy to cheer me on when I hit milestones and motivate me when I fall behind, giving me a fun way to track my finances."

Feature: Notifications
- **User Story**: Rent Notifications. "As someone who can be forgetful, I want calendar notifications to help me track rent due dates so I don't miss any payments."
- **User Story**: Payday Notifications. " As someone who wants to stay on top of my finances, I want calendar notifications to remind me of my upcoming payday so I can plan my spending accordingly."
- **User Story**: Savings Goal Notifications. "As someone excited for my trip, I want to be notified when I'm close to reaching my savings goal, so I can stay motivated and on track."

Feature: Calendar
- **User Story**: View Event (rent, payday, etc.). "As a user, I would like to see all my financial events on a calendar."