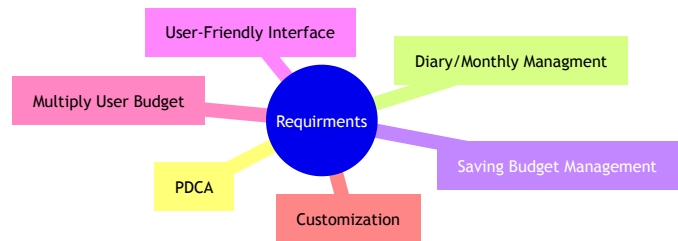


System Analysis (PaoSatang)

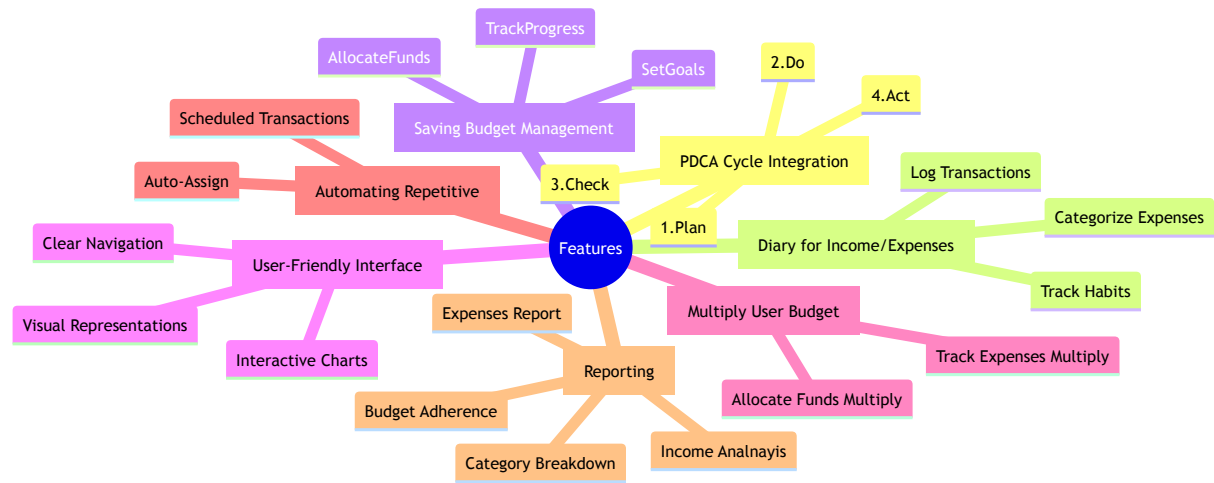
Application that provide money management features. Designed to help users take control of their finances effectively.

- Following concept that had studied on [Case-Study \(YNAB\)](#) We had review the concept and conclude the context following by these

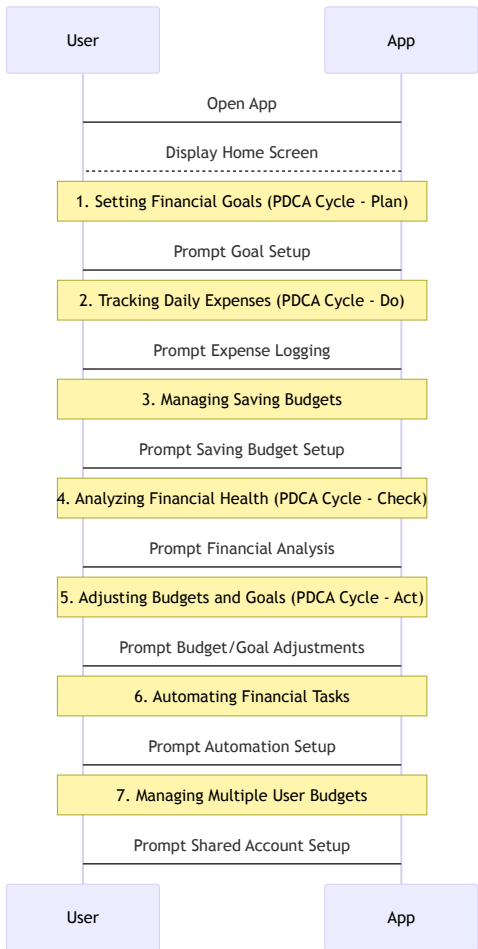
#PaoSatang-System-Analysis



- 1 User Requirement
- User can handle the PDCA cycle (Plan-Do-Check-Action) [Expense Income Guide](#) [#Follow-the-PDCA-Guide-Plan-Do-Check-Action](#)
 - User can handle diary/monthly income/expenses [Resource and Debt](#) [#Make-the-Resource-before-made-Debt](#)
 - User can manage their Saving budget [Based of Wealthy](#) [#Eaming](#)
 - it should provide friendly-usage
 - User can customization categories, budgets, and reports to suit individual needs.

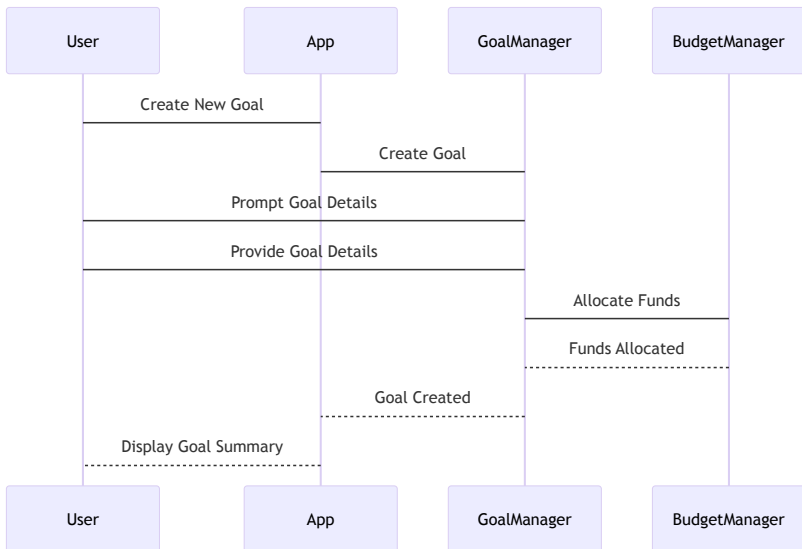


- 1 Key Features:
- PDCA Cycle Integration :**
 - Incorporate the PDCA (Plan-Do-Check-Action) cycle to help users plan their finances, execute financial activities, review their progress, and take necessary actions to improve their financial health. [Note Detail](#) [#PDCA-Integration](#)
 - Diary for Income/Expenses:**
 - Include a diary feature where users can log their daily income and expenses, categorize transactions, and track their financial activities over time to gain insights into their spending habits.
 - Saving Budget Management:**
 - Provide a dedicated section for managing saving budgets, allowing users to set savings goals, track their progress, and allocate funds towards different saving categories such as emergency funds, vacations, or investments.
 - User-Friendly Interface:**
 - Design an intuitive and user-friendly interface with clear navigation, visual representations of financial data, interactive charts for expense analysis, and customizable settings to tailor the app to individual preferences.
 - Multiply User Budget:**
 - Manage their finances across various user's budget efficiently. Users can allocate funds, track expenses in single Account.
 - Automating Repetitive:** Helps user for reducing repeating action/tasks
 - Auto-Assign [#Case-Study](#)
 - designed to automatically allocate or assign incoming funds to specific budget categories based on predefined rules or criteria set by the user
 - saves users time and effort by automating the allocation of income to designated budget categories.
 - Scheduled Transactions:
 - allows users to set up recurring transactions or expenses to be automatically recorded at specified intervals, minimizing repetitive data entry tasks.
 - Rule-Based Categorization (Optional):
 - users can create rules to automatically assign transactions to specific categories based on predefined criteria,
 - Reporting Tools:** reporting tools that generate detailed insights for analysed and providing actionable information at a glance.
 - Expense Reports:** Generate reports that detail expenses categorized by type, date, and amount, providing users with a clear overview of their spending patterns.
 - Income Analysis:** Offer reports that analyze income sources, frequency, and trends to help users understand their cash flow and sources of revenue.
 - Budget Adherence:** Provide reports that compare actual spending against budgeted amounts, highlighting areas of overspending or underspending to aid users in adjusting their financial plans.
 - Category Breakdown:** Display reports that break down expenses by categories such as groceries, utilities, entertainment, etc., allowing users to identify where their money is being allocated.
- 2 Use-cases



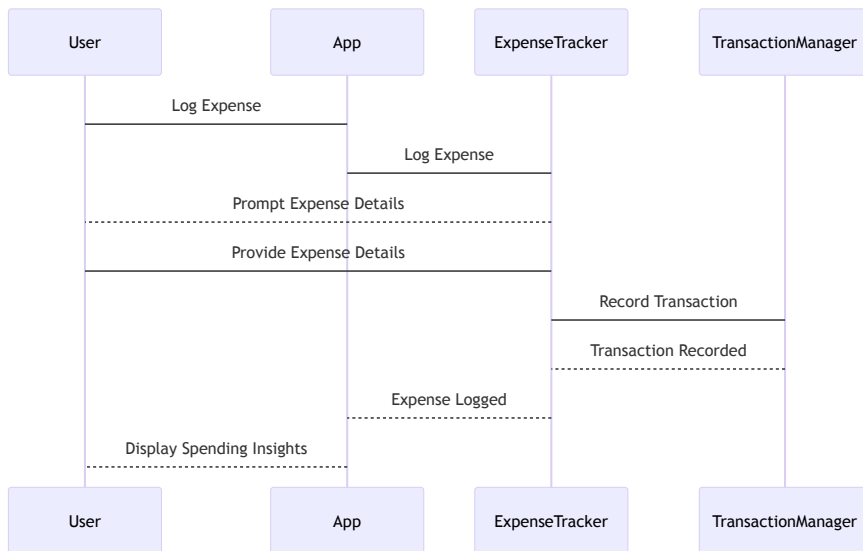
1. Setting Financial Goals (PDCA Cycle - Plan)

- A user opens the app and navigates to the "Goals" section.
- The user creates a new goal, such as "Save \$10,000 for a down payment on a house."
- The user sets a target date and breaks down the goal into smaller, achievable monthly or weekly targets.
- The app guides the user through allocating a portion of their income or existing funds towards this goal.



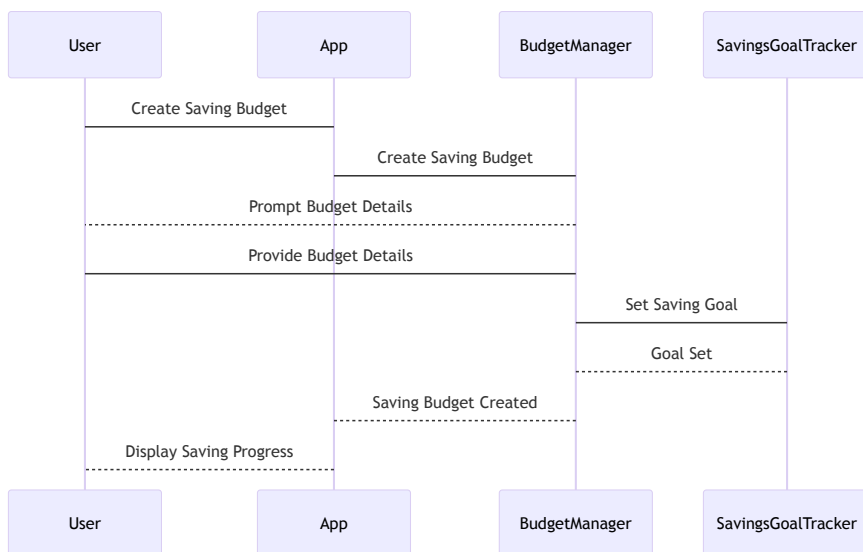
2. Tracking Daily Expenses (PDCA Cycle - Do)

- A user logs their daily expenses in the "Diary" section, categorizing each transaction (e.g., groceries, transportation, entertainment).
- The user attaches receipts or photos of bills for better record-keeping.
- The app automatically calculates the total expenses for the day/month and provides insights into spending patterns.



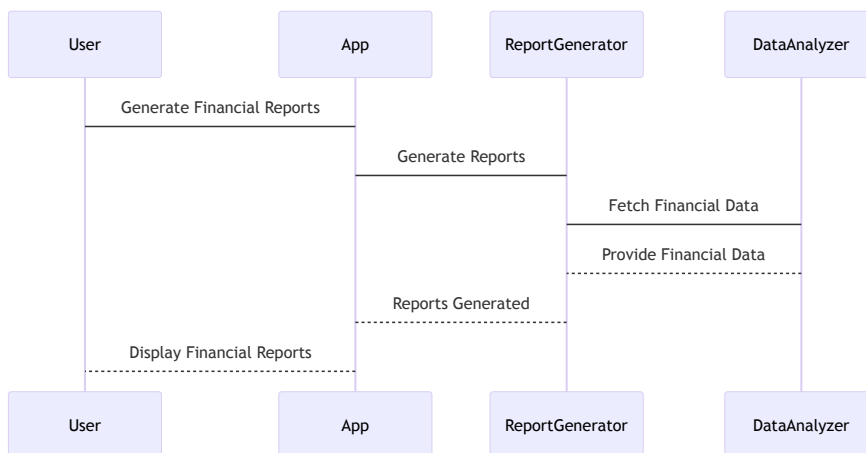
3 Managing Saving Budgets

- A user creates multiple saving budgets for different purposes, such as an emergency fund, a vacation fund, and a retirement fund.
- The user allocates a specific amount or percentage of their income towards each saving budget.
- The app tracks the progress towards each saving goal and provides visual representations (e.g., progress bars, charts) to motivate the user.



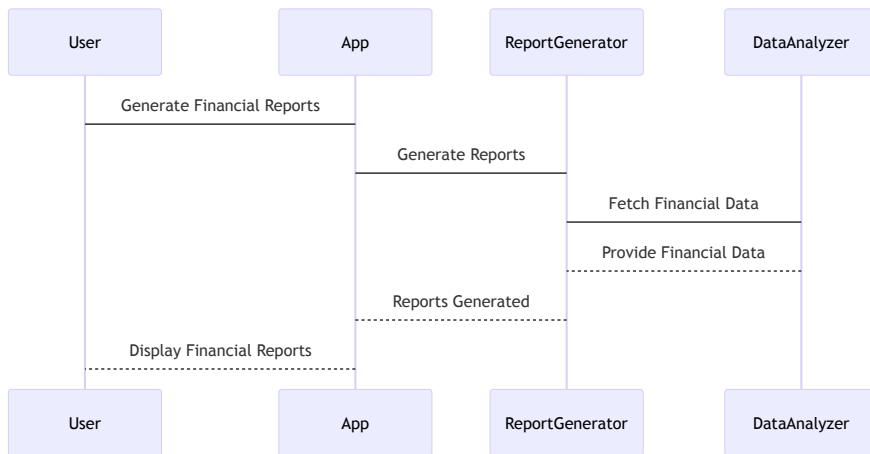
4 Analyzing Financial Health (PDCA Cycle - Check)

- The app generates detailed reports on the user's expenses, income, budget adherence, and category breakdowns for a specified period.
- The user can view interactive charts and visualizations to identify areas of overspending or underspending.
- The app highlights any deviations from the user's financial plans or goals.



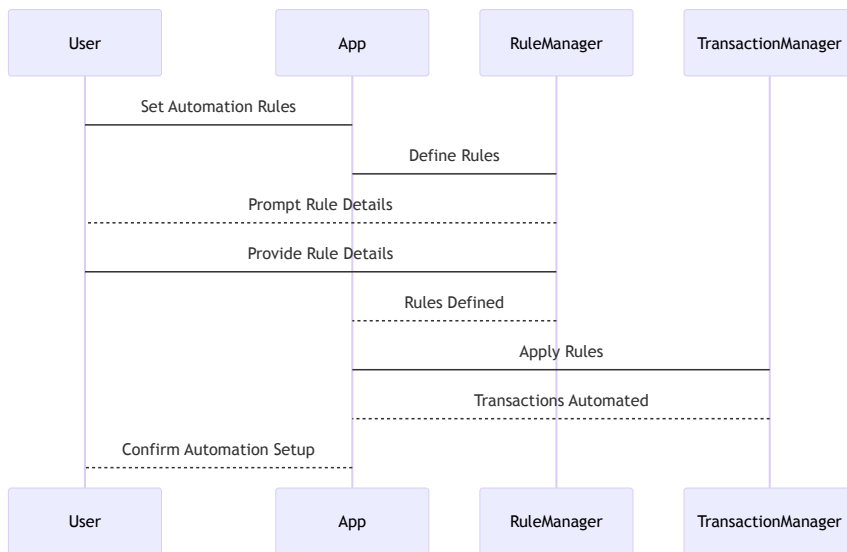
5 Adjusting Budgets and Goals (PDCA Cycle - Act)

- Based on the insights gained from the analysis, the user can adjust their budgets, reallocate funds, or modify their financial goals within the app.
- The app sends notifications or reminders to the user to take corrective actions or stay on track with their financial plans.



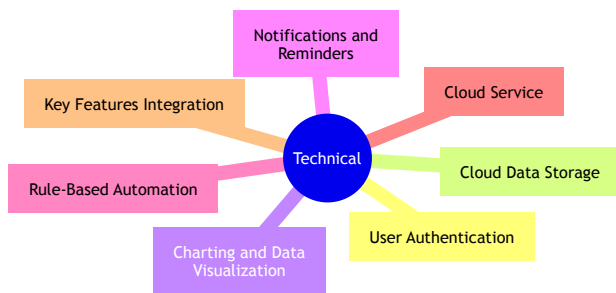
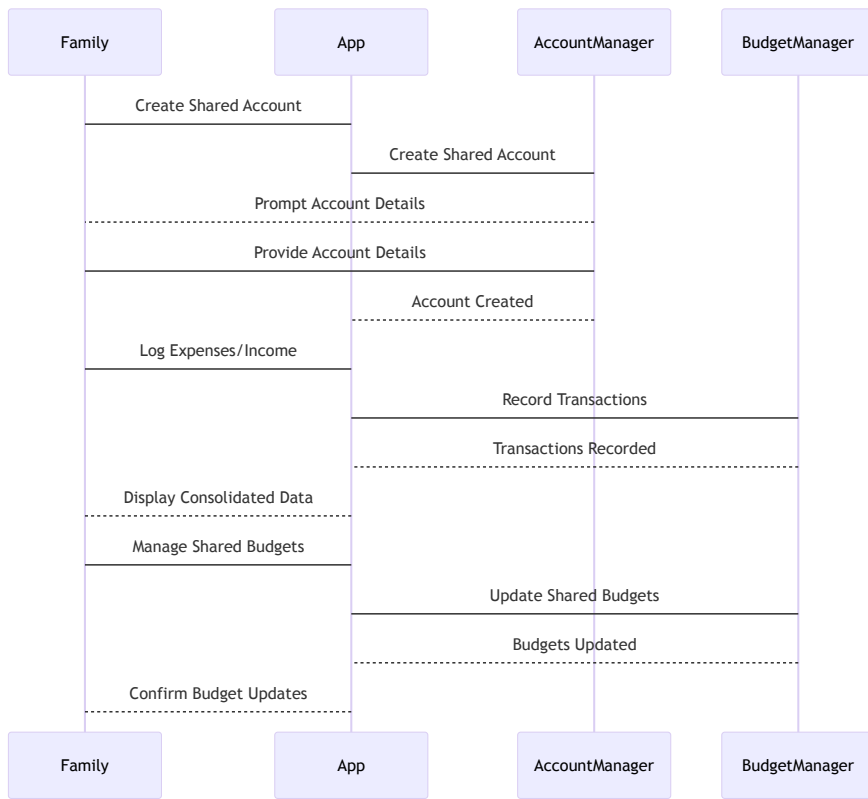
6 Automating Financial Tasks

- The user sets up rules to automatically categorize transactions based on predefined criteria (e.g., merchant names, transaction amounts).
- The app automatically allocates incoming funds to designated budget categories based on the user's rules.
- The user schedules recurring transactions (e.g., rent, utility bills) to be automatically recorded in the app.



7 Managing Multiple User Budgets

- A family creates a shared account within the app, allowing them to manage their finances collectively.
- Each family member can log their individual expenses and income, while the app consolidates the data into a unified view.
- The app enables family members to allocate funds towards shared goals or budgets, such as a family vacation or a new car purchase.



3. Technical Integration

1. User Authentication
2. Cloud Data Storage
3. Cloud Service
4. Charting and Data Visualization
5. Notifications and Reminders
6. Key Features Integration
7. Rule-Based Automation