**Software Blueprint**

**Team 216**

**1. App Overview:**

* **App Name**: Budget Buddy
* **Purpose**: The Budget Buddy app is designed to empower users to manage their personal finances effectively. It allows users to track expenses, manage recurring incomes and expenses, set biweekly budgets, set financial goals, and gain insights into their spending habits. The app encourages smart spending by providing real-time reminders and a clear view of financial status.

**2. Core Features:**

* **Expense Input & Tracking**:
  + **Manual Expense Entry**: Users can input expenses (e.g., amount, category like transport, loans, groceries, etc.).
  + **Category Setup**: Ability to categorize expenses into predefined categories (e.g., transport, groceries, bills, etc.) or custom categories.
  + **Expense History**: Track historical spending with the ability to filter by category or date.
* **Recurring Income & Expenses**:
  + **Recurring Income**: Users can input regular income sources (paychecks, dividends).
  + **Recurring Expenses**: Set and manage recurring expenses (e.g., rent, subscriptions, loans).
  + **Notification**: Reminders for recurring income and expense entries.
* **Biweekly Budgeting**:
  + **Income & Expense Input**: Users can input expected income and expenses for the next two weeks.
  + **Budget Goal Setting**: Users can set specific savings goals (e.g., saving for a car or vacation) for the biweekly period.
  + **Spending Limits**: The app calculates the budget limits and displays the available budget for the upcoming two weeks.
* **Event & Festival Budgeting**:
  + **Event Planning**: Users can set specific budgets for upcoming events (e.g., festivals, holidays, birthdays) and track expenses related to these events.
  + **Goal-Oriented Budgeting**: Set financial goals such as “Saving for a Car” or “Saving for an Apartment” and track progress.
* **Spending Alerts & Reminders**:
  + **Budget Alert**: Reminders when 80% of the budget is spent, prompting users to reduce spending.
  + **Bank Statement Reminder**: Notifications to review bank statements for unnoticed or forgotten charges (e.g., subscriptions, autopay).
* **Spending Insights & Reports**:
  + **Spending Summary**: Display total income, total expenses, and remaining budget in a clear and concise dashboard.
  + **Graphical Reports**: Visual representation of spending (e.g., pie charts, bar graphs).
  + **Expenditure Insights**: Breakdown of spending by category to help users identify spending trends.
  + **Monthly Reports**: Insights into monthly spending patterns and areas where users can save more.

**3. User Interface (UI):**

* **Main Dashboard**:
  + Overview of current balance, total expenses, income, and remaining budget for the current period (e.g., biweekly).
  + Quick access to input expenses, income, and set budgets.
* **Expense Input Form**:
  + Simple form to input the amount, select the category, and add a note. Includes options for recurring expenses.
* **Budgeting Screen**:
  + Input fields for expected income, expenses, and savings goals for the next two weeks.
  + Display of the remaining budget and financial progress toward goals.
* **Spending Insights**:
  + Graphs displaying spending by category and insights based on spending behavior.
  + Option to generate monthly spending reports.

**Flow of the App**:

1. **User Authentication**:
   * User opens the app and signs up/logs in via email.
   * After logging in, the user is taken to the main dashboard.
2. **Main Dashboard**:
   * The dashboard shows total income, expenses, remaining budget for the biweekly period.
   * User can quickly access sections to add expenses, recurring expenses, and set budgets.
3. **Expense & Income Input**:
   * User clicks “Add Expense” or “Add Income”.
   * A form opens for entering amount, category, date, and notes. The user submits the form and data is saved to the database.
4. **Recurring Expenses & Income**:
   * User navigates to "Recurring Expenses" or "Income".
   * Set up recurring expenses/income by specifying amount, category, and frequency. These are automatically added to the biweekly budget.
5. **Biweekly Budgeting**:
   * User navigates to the "Budget" section and inputs expected income, expenses, and savings goals for the next two weeks.
   * The app calculates the remaining budget and displays it on the dashboard.
6. **Event & Festival Planning**:
   * User navigates to the "Event Planning" section and sets a budget for an upcoming event or festival.
   * Track expenses related to the event.
7. **Spending Alerts & Reminders**:
   * Notifications are sent when the user is approaching 80% of their budget.
   * The app sends reminders to check bank statements for unexpected charges.
8. **Spending Insights & Reports**:
   * User navigates to the "Insights" section to view spending trends and graphical representations of expenses.
   * The app displays a summary of monthly spending with insights into categories where savings can be made.