

Title: BudgetMate

Description: BudgetMate is a straightforward budgeting app that allows users to track their expenses. Users can add income and expense entries, categorize them, and view a summary of their spending habits. The app provides a simple overview of how much users have left in their monthly budget and highlights their top expense categories.

BudgetMate User stories:

1. Story: Add a Budget

- **As a** user,
- **I want** to add a budget,
- **so that** I can keep track of my budget.

Acceptance Criteria:

- A form allows the user to input budget.
 - After submission, the budget is saved and displayed.
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2. Story: Add Income to Budget

- **As a** user,
- **I want** to add an income entry with its amount, category and date,
- **so that** I can keep track of all my income sources within my budget.

Acceptance Criteria:

- A form allows the user to input income details (amount, category, date).
 - After submission, the income entry is saved and displayed under the user's budget.
 - The total income in the budget is updated to reflect the new entry.
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3. Story: Add Expense to Budget

- **As a** user,
- **I want** to add an expense entry with its amount, category and date,
- **so that** I can keep track of all my expense sources within my budget.

Acceptance Criteria:

- A form allows the user to input expense details (amount, category, date).
 - After submission, the expense entry is saved and displayed under the user's budget.
 - The total income in the budget is updated to reflect the new entry.
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4. Story: Track Expenses by Category

- **As a** user,
- **I want** to categorize each expense I add,
- **so that** I can see where I am spending the most money in my budget.

Acceptance Criteria:

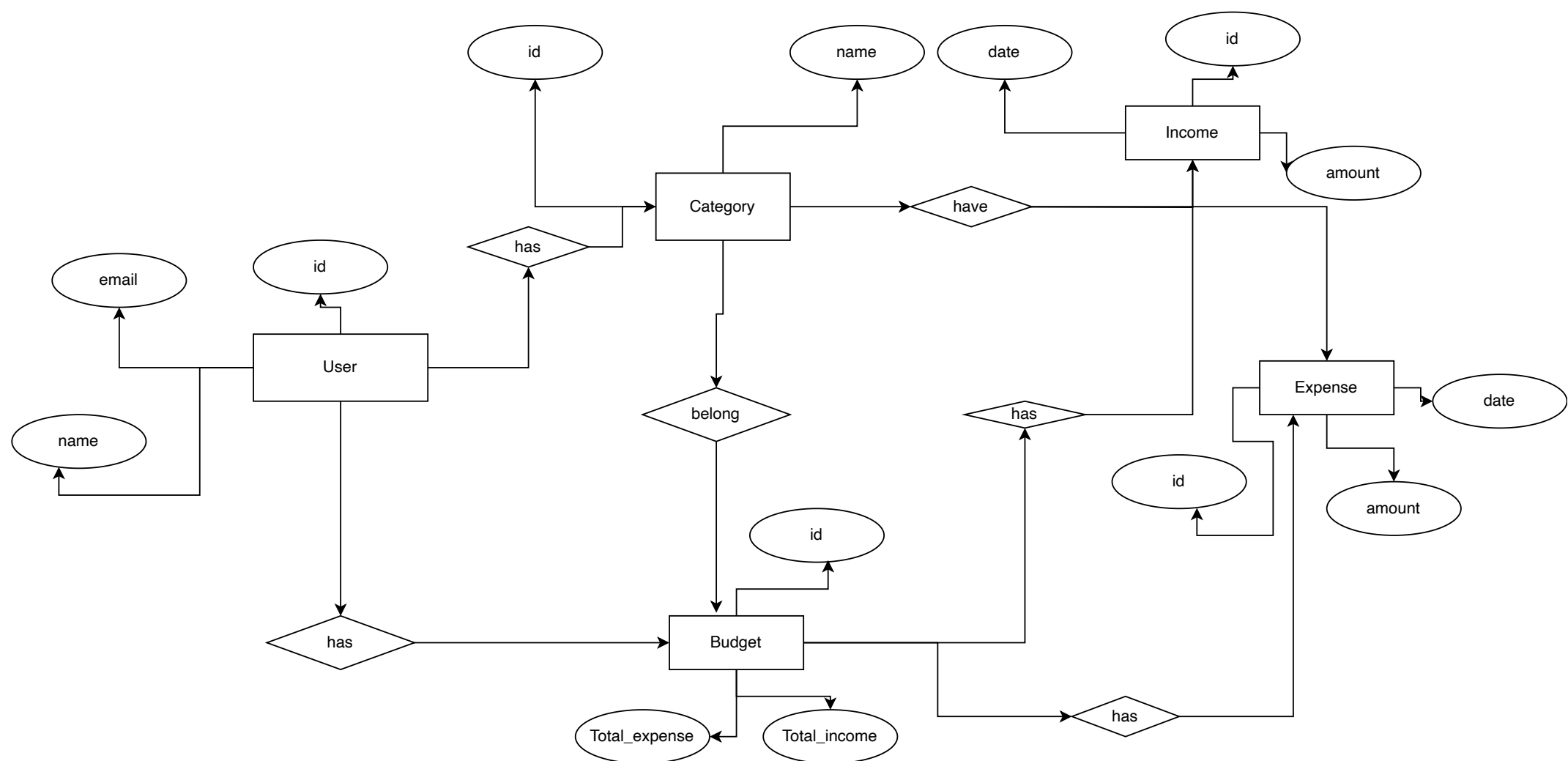
- A dropdown or selection allows the user to assign a category (e.g., food, transport) when adding an expense.
 - The expense is saved with its category and displayed under the budget.
 - The app provides a breakdown of expenses by category.
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5. Story: View Monthly Budget Overview

- a. **As a** user,
- b. **I want** to see an overview of my monthly budget,
- c. **so that** I can track my total income, total expenses, and remaining balance for the month.

Acceptance Criteria:

- d. A summary view shows the total income, total expenses, and balance (income - expenses) for the selected month.
 - e. The overview is automatically updated when new income or expenses are added.
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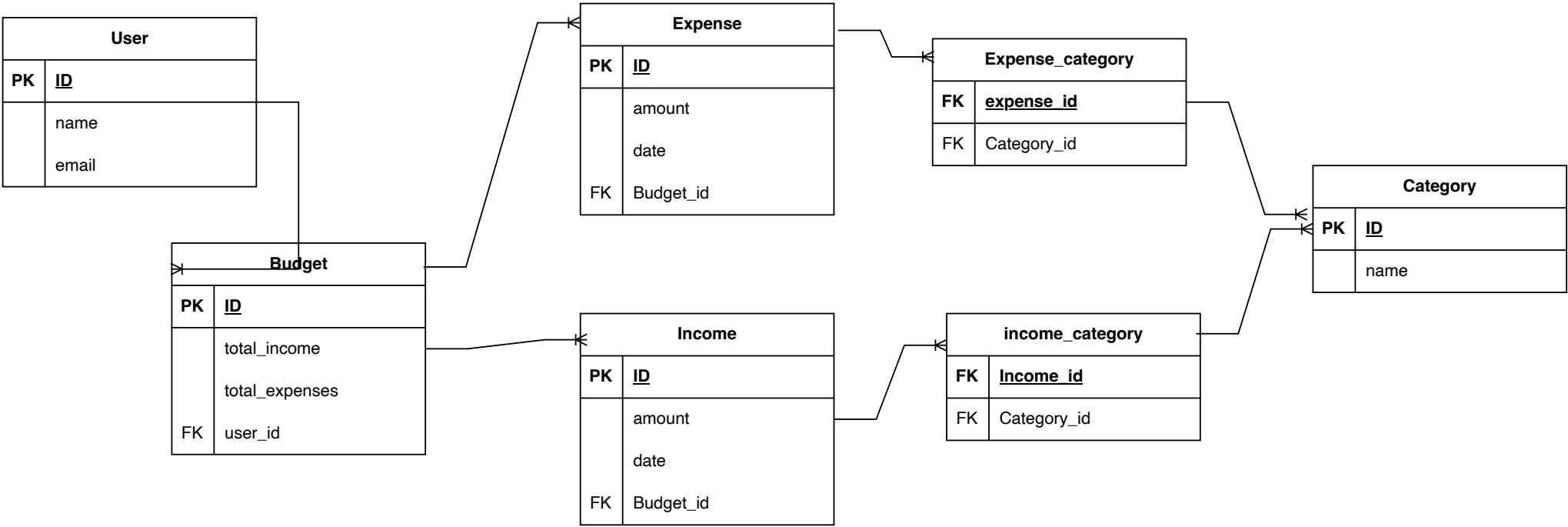


- **One-to-Many:**

- A **User** can have many **Budgets** (One User → Many Budgets).
- A **Budget** can have many **Incomes** and **Expenses** (One Budget → Many Incomes and Many Expenses).

- **Many-to-Many:**

- An **Income** can belong to multiple **Categories** (e.g., categorized as "Salary" and "Bonus").
- An **Expense** can belong to multiple **Categories** (e.g., categorized as "Food" and "Entertainment").



Relationships in Logical Model:

- **User** → **Budget**: user_id in **Budget** table links to id in **User** table (One-to-Many).
- **Budget** → **Income**: budget_id in **Income** table links to id in **Budget** table (One-to-Many).
- **Budget** → **Expense**: budget_id in **Expense** table links to id in **Budget** table (One-to-Many).
- **Income** → **Category**: Many-to-many, represented by the **Income_Category** table.
- **Expense** → **Category**: Many-to-many, represented by the **Expense_Category** table.