Project Analyse

Title:

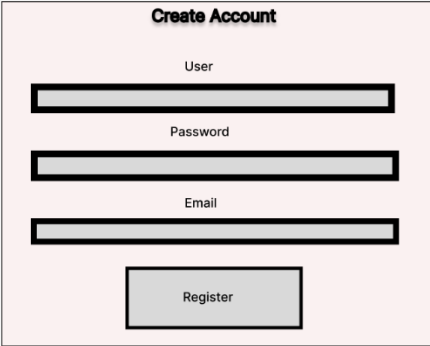BudgetBuddy

Description:

BudgetBuddy is an application that helps users in managing their personal financial budgets more effectively. In this application, users are provided with the option to create different spendings and measure expenses through entering these figures by hand or through entering preexisting bank statements. The application offers insights into the user's spending on a monthly basis and also provides bulges based on previous records. The users are free to place financial controls, and the application gives advice on saving methods when the users are close to the financial goals.

User Story 1:

Create Account:
As a new user, I'm able to create an account so that I can manage my personal finances.
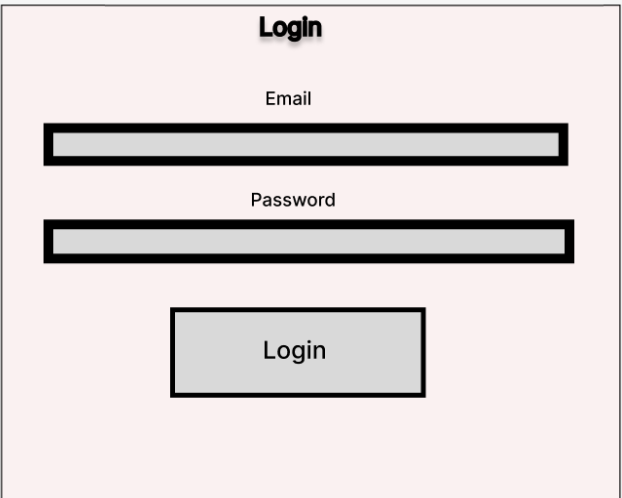
Wireframe:

Acceptance Criteria:
- User can create a new account with unique login credentials.
- An error message is displayed if the email address is already in use.

User Story 2:

Login to Account: As a user, I'm able to log into my account so that I have access to my finances.

Wireframe:

Acceptance Criteria:

- User can log in with the correct email and password.
- An error message is displayed if the login credentials are invalid.

User Story 3:

Dashboard: As a user, I want to see a dashboard on the homepage with budgeting tips,tricks, and a motivating image,
so that I can learn how to save money effectively.

Wireframe:
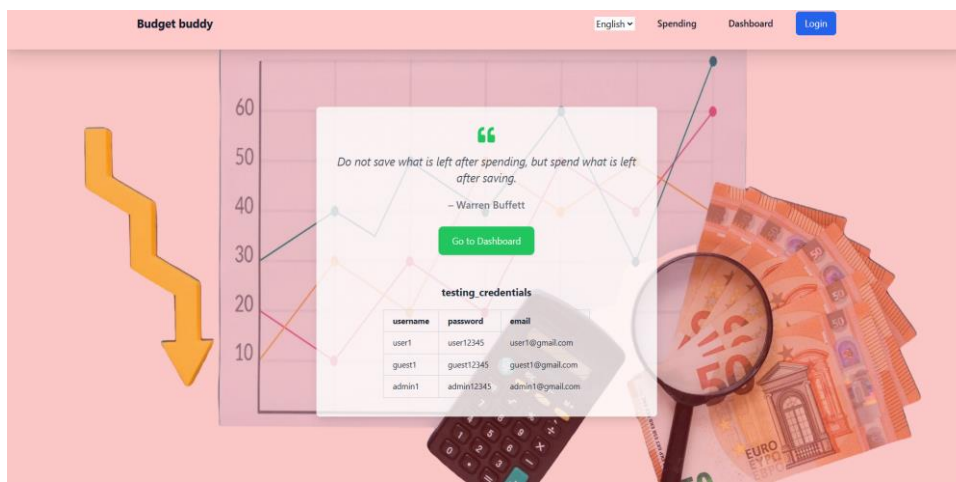
Acceptance Criteria:
- The homepage displays a random budgeting tip with the author's name.
- The homepage includes a visually appealing image and a navigation bar.
- The design is responsive and works on all devices.

User Story 4:

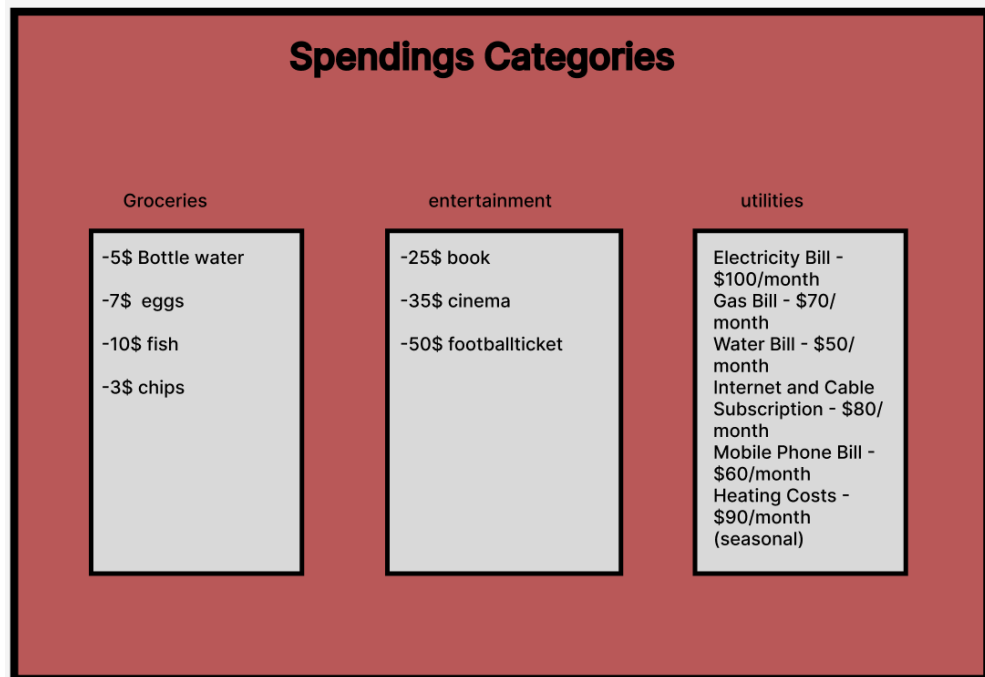Create Spending Categories: As a user, I'm able to create custom spending categories (e.g., groceries, entertainment, utilities) so that I can organize my expenses and track where my money is going.

Wireframe:

Acceptance Criteria:

- User can create, edit, and delete custom categories.
- A confirmation message is displayed after creating or editing a category.
- Each category shows the total spent amount and remaining budget.
- Error message appears if the category name is empty.

User Story 5:

Log Expenses: As a user, I'm able to log my expenses in different categories so that I can keep track of my spending habits.

Wireframe:

Acceptance Criteria:
- User can manually log expenses with the amount, date, and description.
- Expense data is reflected immediately in the total spent for that category.
- A success notification after saving an expense.
- Error handling for invalid inputs (e.g., negative numbers, empty fields).

User Story 6:

View Monthly Spending Report: As a user, I'm able to view a monthly report of my spending so that I can analyze my financial behavior and make informed budgeting decisions.

Wireframe:
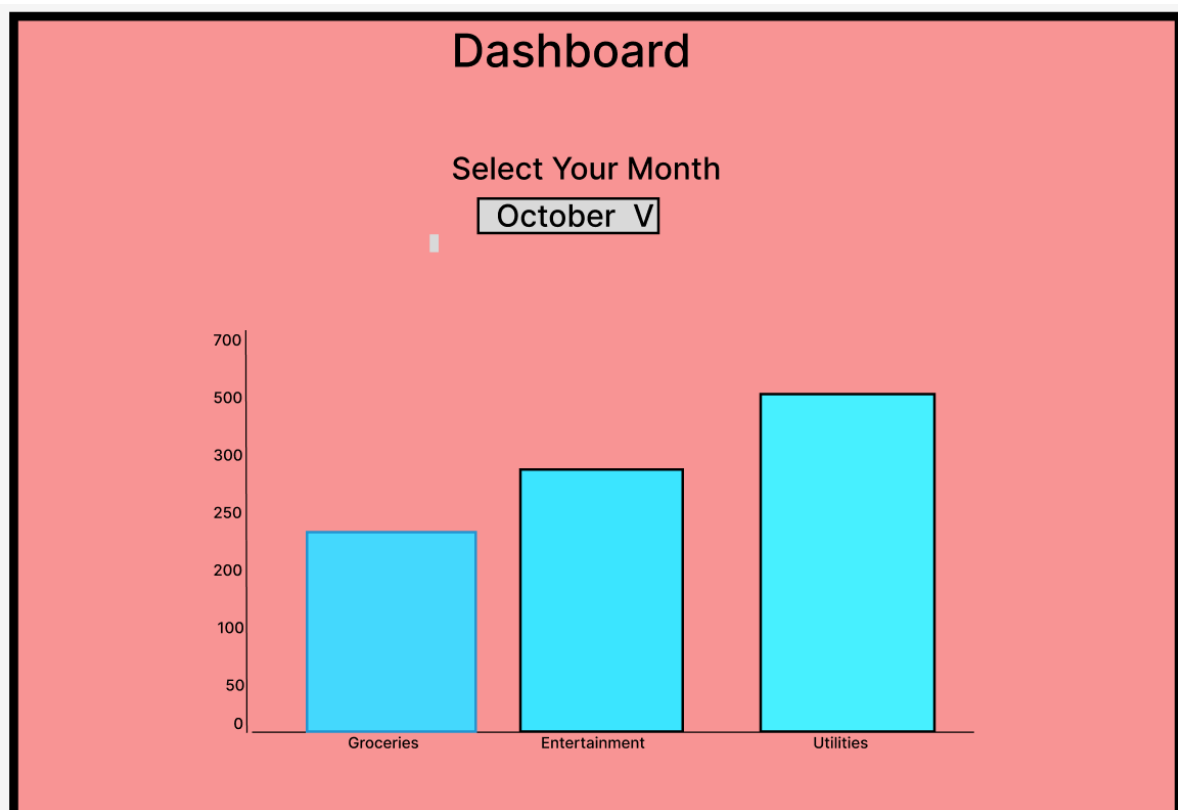
Acceptance Criteria:

- The app generates a monthly report summarizing total spending and category-wise breakdown.
- Users can view reports for previous months.
- Users receive a notification or alert if they exceed the set budget for any category.
- Report includes visual representation (charts or graphs) and summary text.

User Story 7:

Set Budget Alerts: *As a user, I want to receive real-time alerts when I exceed or approach my spending limits for specific categories so that I can manage my budget more effectively.*

Wireframe:
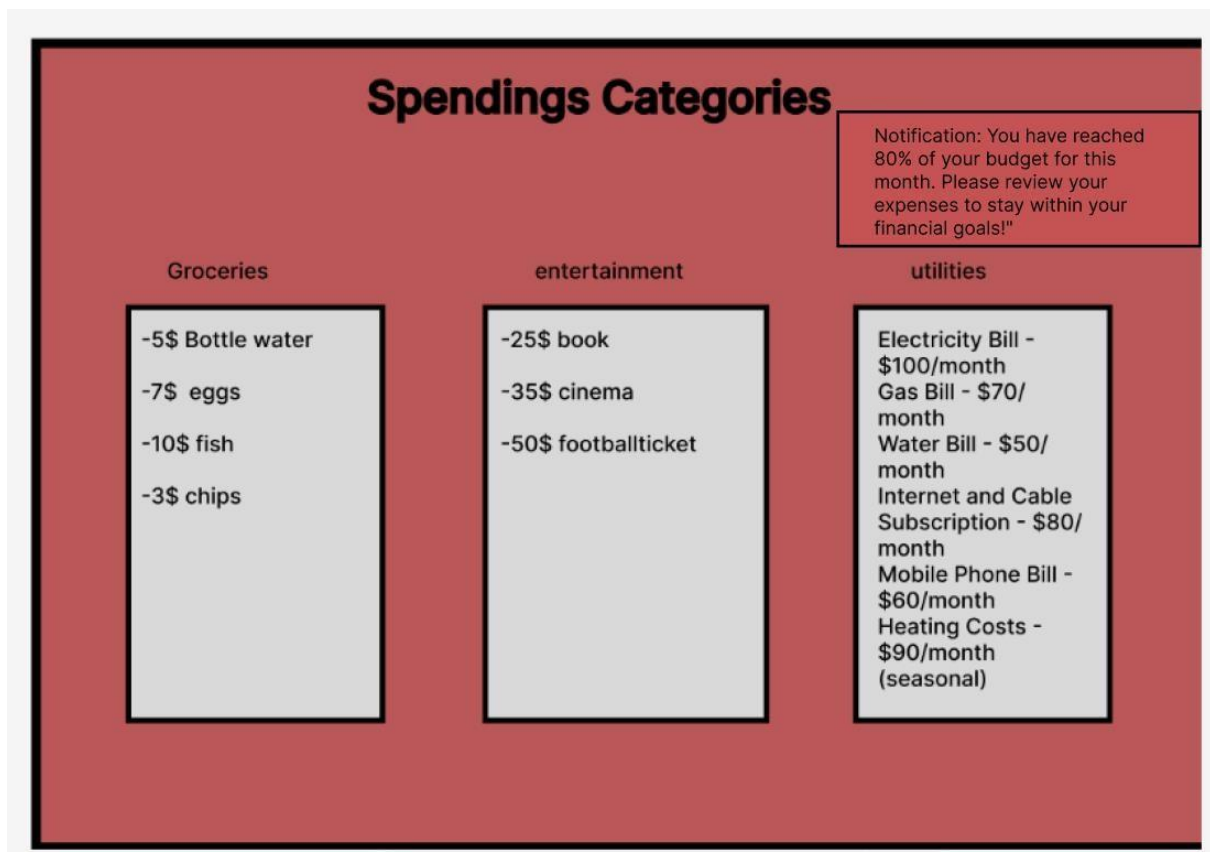
Acceptance Criteria:

- Users can set a spending limit for each category (e.g., groceries, entertainment).
- The app sends real-time notifications when spending exceeds the threshold or limit.

Domain Model

User
- userId: number
- name: string
- email: string
- password:string
- location

Category
- CategoryId: number
- userId: number
- name: string
- totalSpent: number
- remainingBudget: number

User_Shop
- userId: number (PK)
- shopId: number (PK)

Expenses
- expenseId: number
- userId: number
- categoryId; number
- amount: number
- date: date
- description: string

Shop
- shopId: number
- name: string
- type: string
- distanceFromUser: number
- location

Conceptual Model

Logical Model

User_Shop

PK,FK1	User_id
PK,FK2	Shop_id
PK,FK2	Shop_id

User

PK	User_id
	Name
	Email
	Password
	Location

Shop

PK	Shop_id
	Name
	Type
	DistanceFromUser
	Location

Category

PK	Category_id
	Name
	TotalSpent
	RemainingBudget
FK	User_id

Expense

PK	Expense_id
	Amount
	row 2
	Date
	Description
FK	User_id
FK	Category_id