

Daily Expense Tracker

Project Overview

The Daily Expense Tracker is a web-based application designed to help users efficiently manage and track their daily expenses. It enables users to record, categorize, and analyze their spending habits with detailed visual insights.

Key Features & Modules

1. User Authentication

- Secure Login & Registration: Users can register and log in securely using ASP.NET Identity, ensuring data privacy.
- Password Reset Functionality: In case of forgotten passwords, users can reset them via email authentication.

2. Expense Management

- Add Expenses: Users can enter expenses, specifying details such as amount, category, and description.
- Edit/Delete Expenses: Modify or remove expense records as needed.
- View Expense Details: Users can view all expense records with filters for better tracking.

3. Categorization

- Users can classify expenses into predefined categories such as Food, Travel, Shopping, Bills, and Others.

- The system allows users to filter expenses based on these categories for better spending analysis.

4. Monthly Summary & Graphical Analysis

- The app calculates total monthly expenses automatically.
- Charts & Graphs: Using Chart.js, the app visually represents spending trends, helping users analyze their financial patterns.

System Design & Architecture

The application follows the ASP.NET MVC architecture, ensuring a clear separation of concerns:

- Model: Manages database interactions using Entity Framework.
- View: Handles UI updates dynamically using AJAX & JavaScript.
- Controller: Processes user requests and manages business logic.

Database Schema

1. Users Table - Stores user information (UserID, Username, PasswordHash, Email).
2. Categories Table - Stores predefined and custom expense categories (CategoryID, CategoryName).
3. Expenses Table - Stores user expenses with details (ExpenseID, UserID, Amount, CategoryID, Date, Description).

Technology Stack

- Frontend: HTML, CSS, Bootstrap, JavaScript, AJAX, Chart.js
- Backend: ASP.NET MVC 5 (or Core) with C#
- Database: SQL Server (using Entity Framework)
- Authentication: ASP.NET Identity

User Interface (UI) Overview

The system provides an intuitive interface with the following key pages:

- Login Page - Secure access to user accounts.
- Expense Dashboard - Displays total expenses and recent transactions.
- Expense Entry Form - Allows users to input new expenses.
- Monthly Expense Graph - Shows spending trends using interactive charts.