Divido – Expense Sharing Web Application

Internship Project Presentation
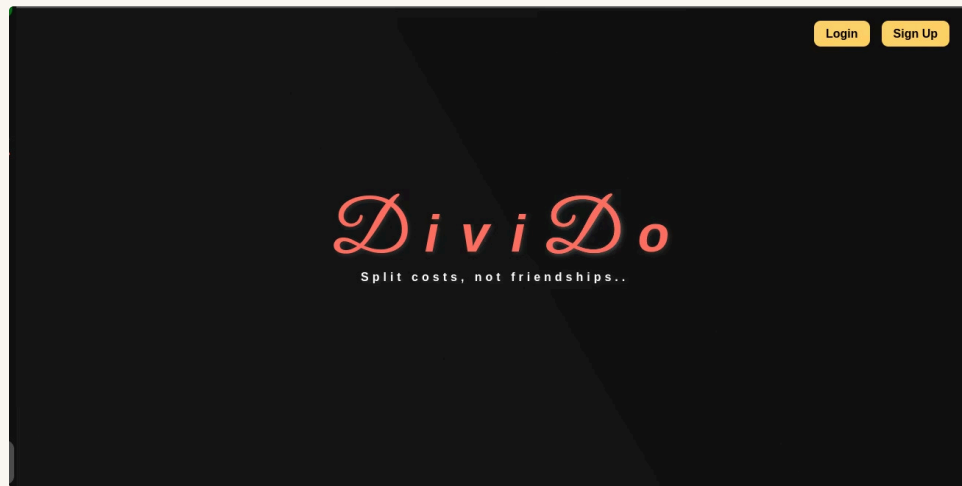
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What is Divido?

Divido simplifies shared expenses for groups, making financial management effortless. Track, split, and settle debts with friends, family, or colleagues.

Powerful Tech Stack

Python Django

Robust web framework

Django Templates

Dynamic UI rendering

SQLite

Lightweight database

Chart.js

Visual analytics

Core Features

User Authentication

Secure registration & login with OTP

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Group Management

Create, join, and manage expense groups

Expense Splitting

Flexible splitting options & automated settlements

Dashboard Analytics

Visual insights into spending habits

Financial Tracking

Clear overview of transactions and dues

Light/Dark theme toggle

improved visual comfort and accessibility

Architecture: MVT Pattern
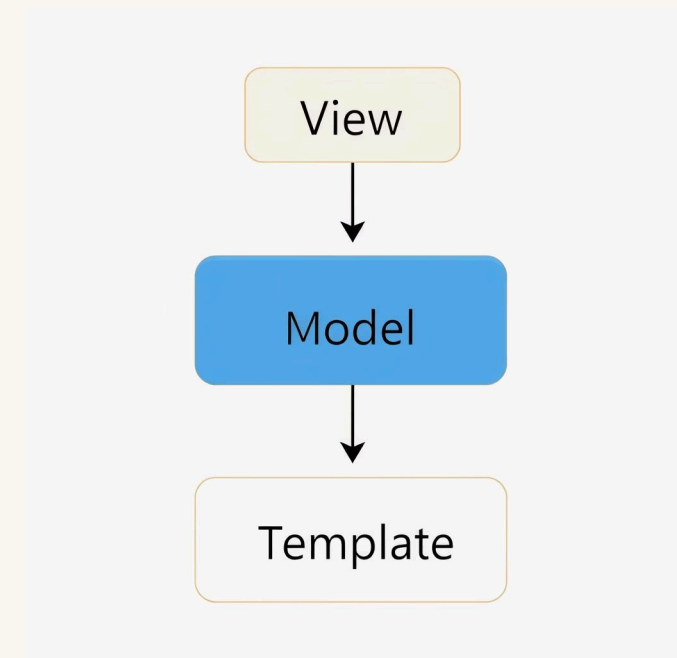
1

Model

Data layer (Django ORM)

2

View

Business logic & data processing

3

Template

User interface (dynamic HTML)

View

↓

Model

↓

Template

Divido leverages Django's MVT pattern for a clean, scalable, and maintainable codebase. The ORM handles database interactions, while dynamic templates ensure a responsive user experience.

Key Data Models

The application's core functionality is built upon these interconnected models:

User	Authentication and profile data
Group	Container for shared expenses
GroupMembers	Defines members within a group
Split	Individual expense details and divisions
Payer	Records who paid for what
Settlement	Tracks outstanding dues between members

Group Overview
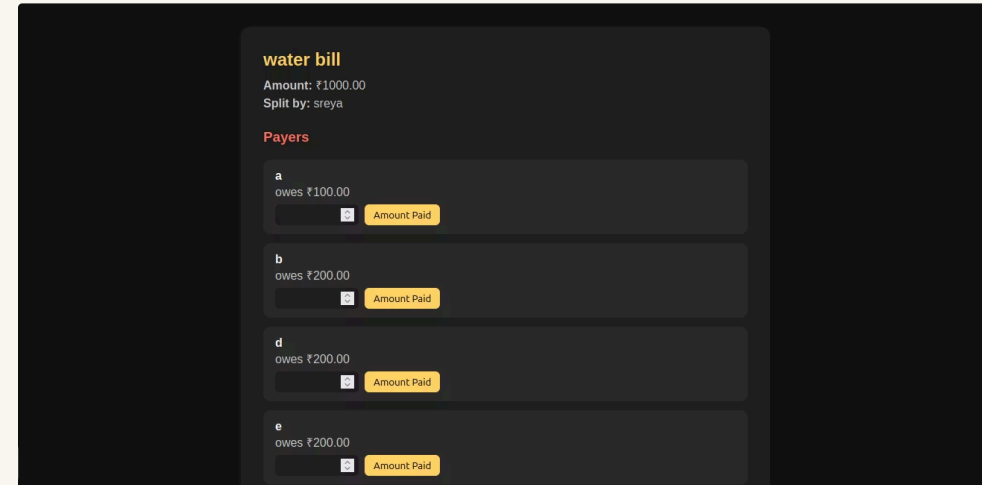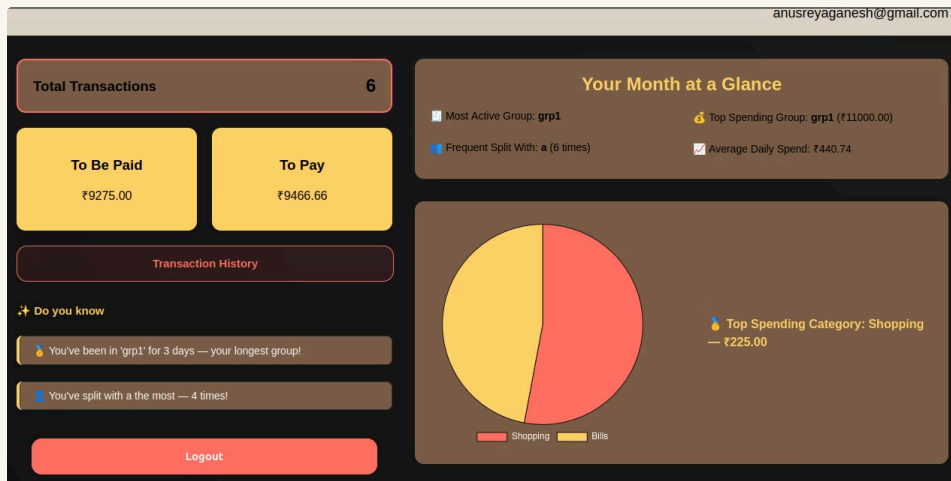

- View all expenses shared within a group
- See total amount spent and individual contributions
- Access admin actions like adding/removing members
- Track group members and their payment status

Split Overview

- View detailed breakdown of a single expense

- See who paid and who owes how much

- Track settlements made toward the split

- Supports partial payments and real-time due updates

Dashboard & Analytics

Month at a Glance

Overview of monthly spending

Financial Summary

Quick view of "To Pay" vs. "To Be Paid"

Visual insights from Chart.js help users understand their spending patterns and manage their finances effectively.

Future Enhancements

Payment Gateway

Direct settlements

Image Uploads

Attach receipts

Ratings & Reviews

User feedback

Notifications System:

In-app or email notifications

Enhanced Security

Two-Factor Authentication

Performance

Optimization