

Engineering Design Assignment

Expense Sharing Application

Overview

You are required to **design** a simplified version of an **expense sharing application** similar to **Splitwise**.

We are interested in how you **think, structure problems, and explain your decisions**.

Objective

Design a backend system that allows users to:

- Create groups
- Add shared expenses
- Track balances
- Settle dues

Supported split types:

1. **Equal split**
2. **Exact amount split**
3. **Percentage split**

Balance Tracking

- The system should track who owes whom
- Each user should be able to see:

- How much they owe
 - How much others owe them
- Balances should be **simplified**

How to submit an assignment?

<https://forms.gle/an7MvEAjZ8cghR1A8>