Splitwise Expense Management System

Project Requirements

- Users can join and leave groups.

- Users can add expenses within a group.

- Users can settle expenses inside a group.

- Expense splitting supports Equal, Exact, and Percentage strategies.

- Users cannot leave a group without clearing all pending balances.

- Users can add individual (one-to-one) expenses outside a group.

- Notifications are sent when an expense is added or settled.

This system is designed using Object-Oriented Programming principles and design patterns to ensure scalability, maintainability, and clean architecture.