EXERCISE-4

Class Diagram

Admin

+String adminId
+String email
+String password

+login()
+monitorUsers()
+generateReports()

monitors >

generates >

User

+String userId
+String name
+String email
+String password

+register()
+login()
+addExpense(expense)
+deleteExpense(expenseId)
+editExpense(expenseId, updatedData)
+setBudget(amount)
+viewMonthlySummary()
+viewPieChart()
+filterExpenses(category)
+getBudgetAlert()

Report

+Date startDate
+Date endDate

+generate()

manages >

sets >

views >

views >

uses >

Expense

+String expenseId
+Date date
+String category
+double amount
+String description

+edit()
+delete()

Budget

+double amount
+double currentSpent

+boolean isExceeded()
+calculateRemaining()

MonthlySummary

+Date month
+Map totals

+generateSummary()

PieChart

+render(expenses)
+updateChart()

Filter

+String category

+List<Expense> apply(List<Expense> expenses)