

# Project Report Analysis

**Project Name:** Finance Tracker website

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## Module Specifications:

We have 4 main modules:

- User
- Budget
- Category
- SubCategory
- Transaction

Each module includes 3 main layers:

- Model (Entity)
- DAO/Repository (Persistence Layer)
- Controller (Business/API Layer)

## User:

Module	Class	Responsibilities	Important Methods (Expected)
User	User.java	Entity class for users	Getters/Setters, toString(), constructors
	UserDao.java	Service class for business logic	saveUser(), updateUser(), deleteUser(), getUserById(), getAllUsers()
	UserRepository.java	Interface to interact with DB	Auto CRUD methods from JpaRepository
	UserController.java	REST endpoints for users	/addUser, /updateUser, /deleteUser, /getUser/{id}, /getAllUsers

## Category:

Module	Class	Responsibilities	Important Methods (Expected)
Category	Category.java	Entity class for categories	Getters/Setters, constructors
	CategoryDao.java	Business logic for categories	saveCategory(), updateCategory(), deleteCategory(), getCategoryById(), getAllCategories()
	CategoryRepository.java	DB interaction	Auto CRUD methods
	CategoryController.java	API for categories	/addCategory, /updateCategory, /deleteCategory, /getCategory/{id}, /getAllCategories

## Budget:

Module	Class	Responsibilities	Important Methods (Expected)
Budget	Budget.java	Entity class for budget entries	Getters/Setters, constructors
	BudgetDao.java	Business logic for budgets	saveBudget(), updateBudget(), deleteBudget(), getBudgetById(), getAllBudgets()
	BudgetRepository.java	DB interaction	Auto CRUD methods
	BudgetController.java	API for budgets	/addBudget, /updateBudget, /deleteBudget, /getBudget/{id}, /getAllBudgets

## SubCategory:

Module	Class	Responsibilities	Important Methods (Expected)
SubCategory	SubCategory.java	Entity class for subcategories	Getters/Setters, constructors
	SubCategoryDao.java	Business logic for subcategories	saveSubCategory(), updateSubCategory(), deleteSubCategory(), getSubCategoryById(), getAllSubCategories()
	SubCategoryRepository.java	DB interaction	Auto CRUD methods
	SubCategoryController.java	API for subcategories	/addSubCategory, /updateSubCategory, /deleteSubCategory, /getSubCategory/{id}, /getAllSubCategories

## Transaction:

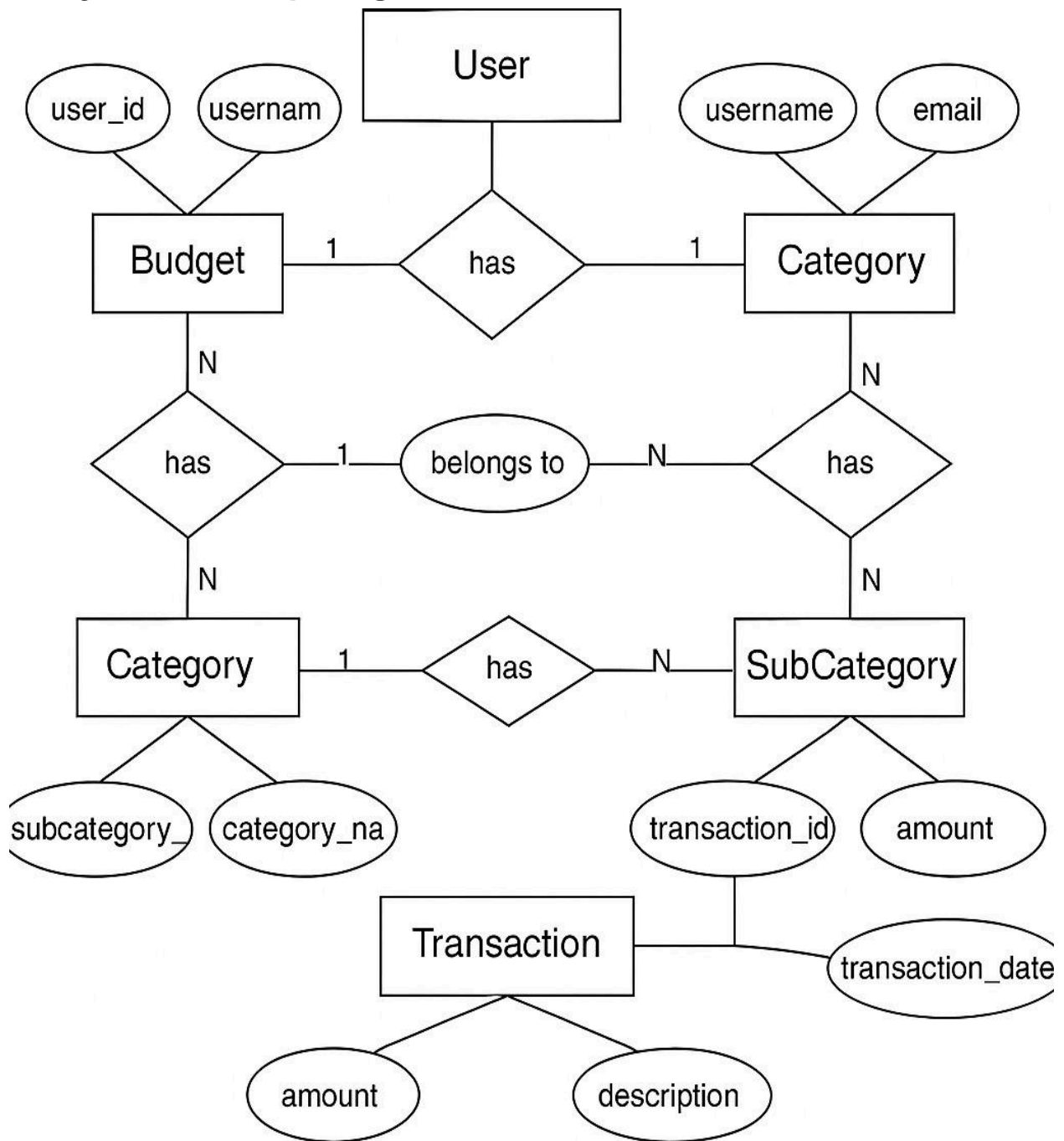
Module	Class	Responsibilities	Important Methods (Expected)
Transaction	Transaction.java	Entity class for financial transactions	Getters/Setters, constructors
	TransactionDao.java	Business logic for transactions	saveTransaction() , updateTransaction() , deleteTransaction() , getTransactionById() , getAllTransactions()
	TransactionRepository.java	DB interaction	Auto CRUD methods
	TransactionController.java	API for transactions	/addTransaction , /updateTransaction , /deleteTransaction , /getTransaction/{id} , /getAllTransactions

## Common Functionalities across Modules

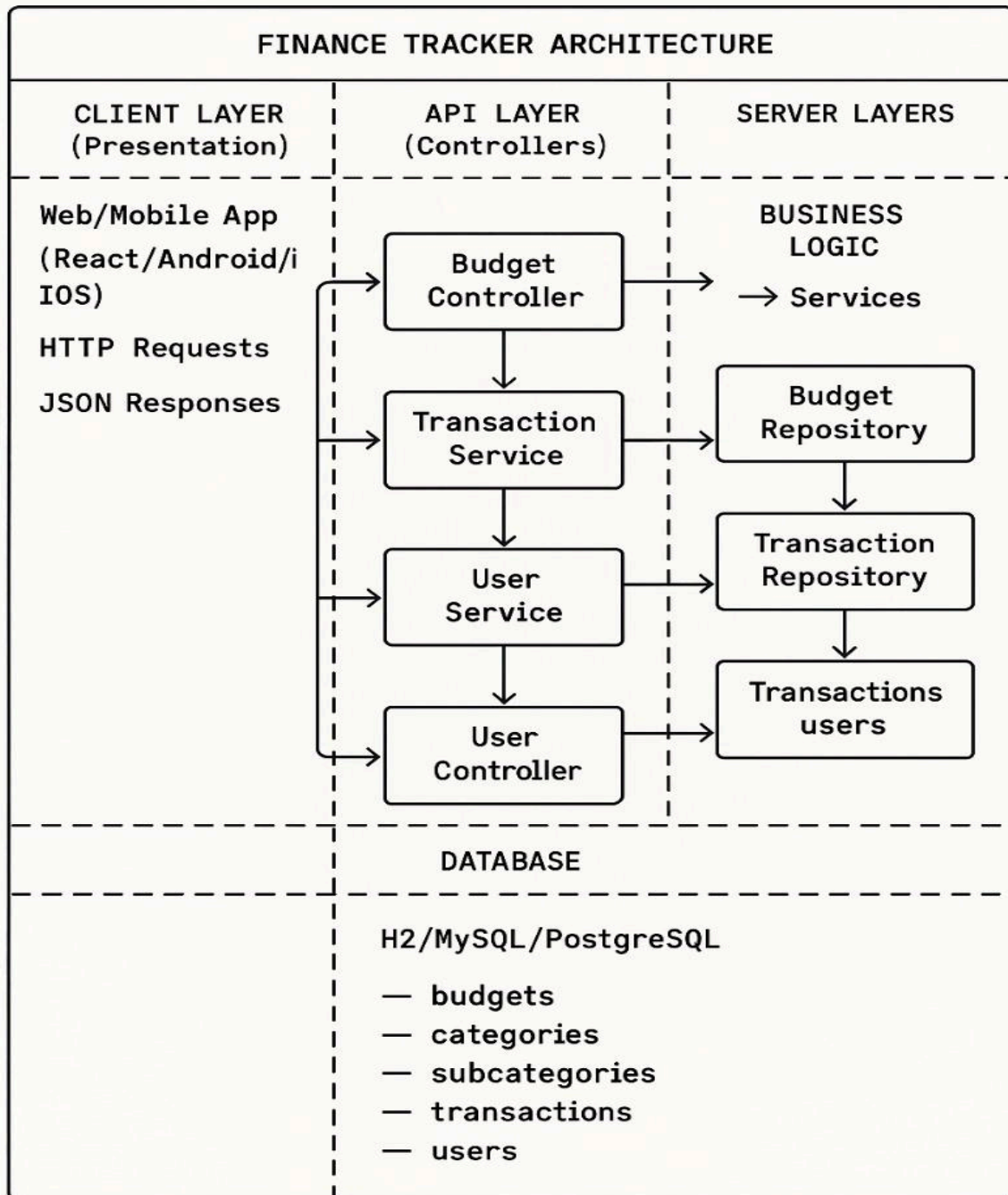
Each module mostly follows this pattern:

- Save (POST)
- Update (PUT)
- Delete (DELETE)
- Get by ID (GET)
- Get all (GET)

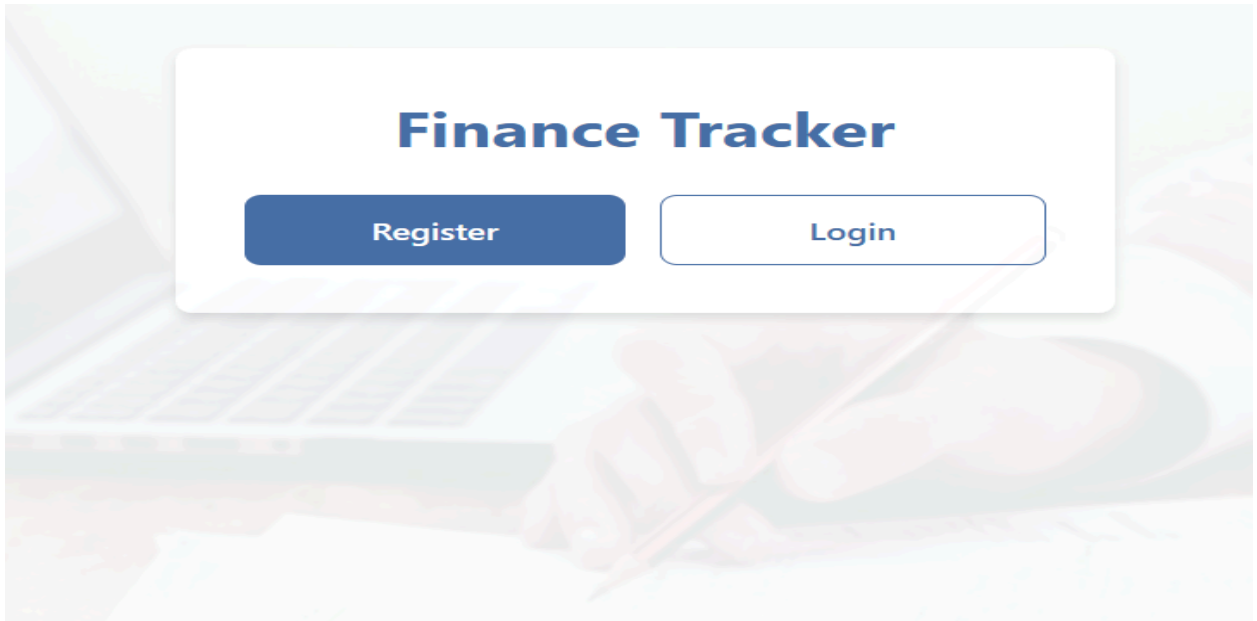
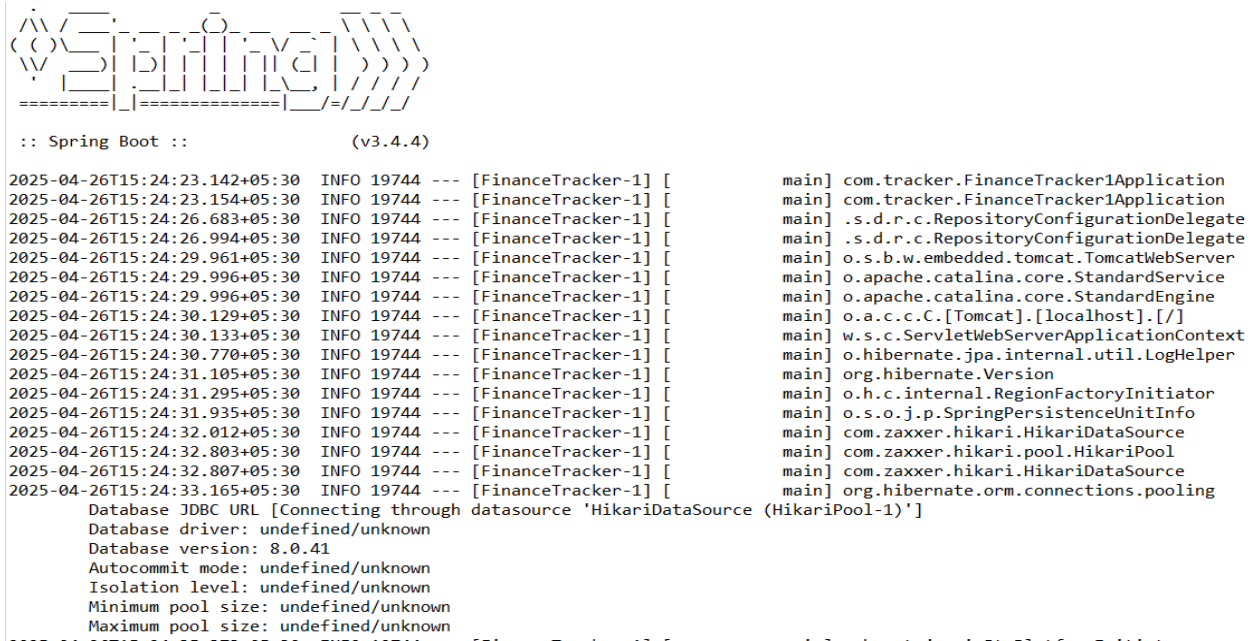
## Entity Relationship Diagram:



## Data Flow Diagram:



OUTPUT:



## Create Account

Phone Number

9347602249

Email

23wh1a12b4@bvrithyderabad.edu.in

Username

Sumayya

Password

.....

Send OTP

Verify OTP

We've sent a 6-digit code to your phone

1

2

3

4

5

6

Verify

## Setup Your Budget

Total Amount (\$)

12000000

Minimum Amount to Maintain (\$)

1234|



Save



## Budget Summary

Total Amount:	\$12000000.00
Minimum Amount:	\$1234.00
Available to Spend:	\$11998766.00

[Proceed to Categories](#)

## Select Category



**Food**



**Transport**



**Entertainment**



**Shopping**



**Bills**



**Other**

[Back](#)

## New Entertainment Expense (Movies)

**Available: \$12000000.00**

Amount (\$)

Date



Description (Optional)

**Add Expense**

**Back**

## Expense Added

Category:	Entertainment
Subcategory:	Movies
Amount:	\$3453.00
Date:	2025-04-26
Description:	-
Remaining Balance:	\$11996547.00

**Add Another**

**Finish**