



Shanto Mariam University Of Creative Technology

Department Of CSE

Course Name:Object Oriented Software Development Lab

Course Code: CSE-3170

Project Title: Personal Finance Management System

Prepared By

- NAME:Afifa Rahman Mahira
- Id:223071002
- Group:A
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Submitted To

- Md.Tousif Hasan Lavlu
- Lecturer, Department Of
CSE&CSIT, SMUCT

Abstract:

The Personal Finance Management System is designed to help individuals manage their finances effectively. This system enables users to track their income and expenses, manage budgets, generate financial reports, and visualize their financial status using graphs and charts. With a user-friendly interface, it provides a tool for individuals to make informed decisions, reduce unnecessary spending, and improve their financial planning.

Problem Statement:

In today's world, many individuals struggle to manage their personal finances, leading to poor financial decisions. Without proper tools to track income, expenses, and savings, financial planning becomes difficult, and users may miss opportunities to save or invest effectively. This project aims to solve this problem by providing a platform that helps users track, analyze, and plan their finances efficiently.

Methodology:

- ❖ **System Design:** The system will be developed using Apache NetBeans and SceneBuilder for creating the user interface (UI). The system will utilize MySQL for the database to store user financial data.
- ❖ **Database Setup:** A MySQL database will be used to store user data, including income, expenses, and transaction history.
- ❖ **User Interface (UI):** The UI will consist of multiple dashboards such as Login, Signup, and Transaction Dashboard, designed using SceneBuilder.
- ❖ **CRUD Operations:** The system will allow users to Create, Read, Update, and Delete transaction records, as well as view reports on their finances.

Expected Results :

- ❖ **Successful Login and Registration:**Users can securely sign up and log in to their accounts.
- ❖ **Transaction Management:**Users can easily add, edit, view, and delete income and expense records.
- ❖ **Budget Tracking:**Users can set budgets for different spending categories and monitor their progress.
- ❖ **Financial Reports:**The system will generate detailed reports showing total income, expenses, and savings.
- ❖ **User-Friendly Interface:**The system will offer a clean and easy-to-navigate dashboard designed using SceneBuilder.
- ❖ **Database Integration:**All user data will be securely stored in a MySQL database with real-time updates.

Conclusion:

The Personal Finance Management System provides a simple yet effective solution for individuals to manage their financial activities. By offering functionalities like tracking income and expenses, managing budgets, and generating detailed reports, the system helps users organize their finances more efficiently. Through an easy-to-use interface and secure database integration, users can make better financial decisions, control unnecessary spending, and improve their overall financial health. This project demonstrates the importance of technology in supporting personal financial planning and management.

Reference:

- ❖ JavaFX Documentations
- ❖ MySQL and JDBC Tutorials
- ❖ Scenebuilder Design
- ❖ Class works

Source Code:

The source code will be maintained with regular weekly commits on GitHub.