

# Java Programming Project 3

**Project:** Expense Tracker

**Duration:** 7 Days

## Project Overview

As we embark on Week 3 of your internship program, I am excited to introduce the project that will further enhance your skills in Java Programming. The upcoming task is the creation of a "Expense Tracker" as part of your Java Programming internship.

The Expense Tracker project aims to create a robust and user-friendly application that allows users to manage and monitor their expenses efficiently. This program will serve as a hands-on experience in applying Java programming concepts to develop a functional and practical software solution.

## Project Objectives

To accurately outline the scope of work required for a project, it is crucial to first identify its objectives. Pinpointing what the project hopes to accomplish will assist in determining its inclusions and limitations.

- **Understanding Java Fundamentals:** Strengthen your grasp on core Java concepts such as classes, objects, inheritance, and exception handling.
- **Data Handling:** Implement data structures and algorithms to manage and organize expense data effectively.
- **User Interface Design:** Develop a simple and intuitive user interface for users to input, edit, and view their expenses.
- **File Handling:** Utilize file I/O operations to save and load expense data, ensuring persistence across sessions.
- **Exception Handling:** Implement robust error handling to enhance the reliability of the application.

## Requirements and Features

- **User Registration:** Allow users to create accounts to personalize and secure their expense data.
- **Expense Entry:** Enable users to input details of their expenses, including the date, category, and amount.
- **Expense Listing:** Provide a clear and organized view of all entered expenses, with the ability to sort or filter.
- **Category-wise Summation:** Implement functionality to calculate and display the total expenses for each category.
- **Persistence:** Save and load expense data to and from files for a seamless user experience across sessions.