

Abstract: Mood Tracker in Java

Project Title: Daily Mood Tracker - A Java Console Application

Objective:

To develop a console-based Java application that allows users to track their daily moods, view mood history, and analyze mood patterns over time. The program promotes emotional well-being and provides friendly motivational messages based on the user's selected mood.

Technologies & Concepts Used:

- Core Java Concepts:
 - Switch-case: Efficiently used to handle multiple mood choices and menu navigation.
 - Loops: `while` loop is used for continuous menu-driven interaction.
 - Exception Handling: `try-catch` blocks manage file and input errors.
 - File Handling: Moods are logged with `BufferedWriter` and read with `BufferedReader`.
 - Collections: `LinkedHashMap` summarizes mood frequency.
 - Date Handling: `LocalDate` timestamps mood entries.
 - User Input: `Scanner` is used for real-time prompts.

Functional Modules:

1. Log Today's Mood - Choose a mood and log with a motivational message.
2. View Mood History - Display all mood entries in date order.
3. View Mood Summary - Show mood frequencies using a collection.
4. Exit - Graceful program exit with a positive message.

Outcome:

This project demonstrates a strong grasp of Java programming fundamentals, promotes emotional awareness, and integrates exception handling, collections, and file operations in a user-friendly format.