

Smart Task Manager - Core & Advanced Java Project

Project Overview

Smart Task Manager is a desktop-based Java application that allows users to manage daily tasks efficiently. It uses Core Java concepts like OOPs, Collections, File I/O, and Advanced Java features like JDBC, Swing, and multithreading.

Key Features

1. User Authentication (Login/Signup using JDBC)
2. Add / Update / Delete Tasks
3. Set Deadlines & Priority
4. Sort & Filter Tasks
5. Task Reminder using Threads
6. Database Integration (MySQL or SQLite)
7. GUI using Java Swing

Technologies Used

Language : Core + Advanced Java

GUI : Java Swing

Database : MySQL / SQLite

Tools : NetBeans / IntelliJ

Version Control : Git & GitHub

Core Java Concepts Applied

OOP (Inheritance, Abstraction, Encapsulation, Polymorphism)

Exception Handling

File Handling (Task backups)

Java Collections (ArrayList, HashMap)

Interfaces & Abstract Classes

Advanced Java Concepts Applied

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JDBC for database connectivity

Java Swing for GUI development

Java Threads for task reminders

GitHub Repository

GitHub Link: [Add your GitHub project link here]

How to Run

1. Clone the project.
2. Import into IDE.
3. Configure database credentials in DBConnection.java.
4. Run Main.java.

Sample Output

Welcome to Smart Task Manager!

You have 3 pending tasks today.

Task: Finish Portfolio | Priority: High | Due: Today