EGB1201 – JAVA PROGRAMMING
PROJECT REVIEW-1

Department of Electronics and Communication Engineering

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Section :ECE-A
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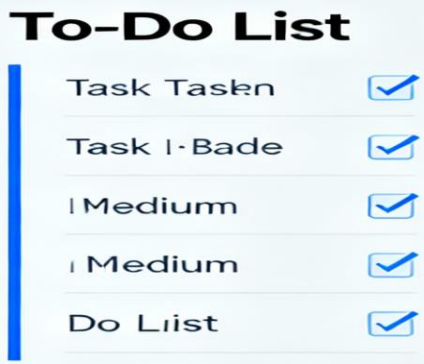
Java-Based Daily Task Scheduling System



Title of the Project

DAILY TASK SCHEDULER

Abstract

- The **Daily Task Scheduler** is a Java-based application designed to assist users in efficiently managing their daily activities and responsibilities. By allowing users to add, edit, delete, and view tasks with associated details such as titles, descriptions, deadlines, priorities, and status, the system promotes effective time management and productivity.

Abstract with CO/PO Mapping

Abstract	CO	POs	PSO
The **Daily Task Scheduler** is a Java-based application designed to assist users in efficiently managing their daily activities and responsibilities. By allowing users to add, edit, delete, and view tasks with associated details such as titles, descriptions, deadlines, priorities, and status, the system promotes effective time management and productivity.	CO1, CO2 CO3 CO4 CO5	PO1, PO2, PO3, PO4, PO5, PO6,PO7,PO8,PO9, PO10, PO11, PO12	PSO1,PSO2

Introduction

- The **Daily Task Scheduler** is a Java-based application designed to help users organize and manage their daily tasks effectively. In today's fast-paced world, time management is crucial for productivity and personal well-being.
- The program adopts a modular structure, ensuring code reusability, maintainability, and ease of extension. Tasks are stored persistently, allowing users to resume from where they left off
- This project also serves as a practical application of Java programming concepts such as **object-oriented design**, **file I/O**, **collections**, and **exception handling**, making it both a useful tool and a learning resource.

Literature Survey

PAPER TITLE	AUTHOR	YEAR	ADVANTAGES
Smart Daily Task Scheduling System	R. Patel, A. Verma	2022	Automates routine planning, improves productivity.
AI-based Task Scheduler for Students	M. Gupta, S. Khan	2023	Personalized scheduling, reduces missed deadlines.
Web-based Daily Planner Application	J. Lee, H. Park	2024	Easy access, real-time task updates, user-friendly interface.

Java Programming - Concepts Used

1. Object-Oriented Programming

Use of **classes** like Task, TaskManager, etc.

Principles of **encapsulation**, **abstraction**, and **modular design**.

2. Classes and Objects

Each task is modeled as an object.

Custom classes are created for functionality and data management.

3. Constructor and Methods

Constructors are used to initialize task objects.

Methods perform operations like addTask(), removeTask(), displayTasks().

4. Access Specifiers

Use of private, public, and protected for data hiding and secure access.

5. Inheritance and Polymorphism

Inheritance used (if extended classes exist).

Method overloading or overriding (polymorphism) for flexible task handling.

Proposed Architecture

1. Presentation Layer (User Interface)

Handles user interaction.

Accepts user input and displays output (via **Console** or **GUI** like Swing/JavaFX).

2. Application Logic Layer (Task Manager)

Acts as the **core processing unit** of the scheduler.

Manages creation, update, deletion, and listing of tasks

3. Optional Modules

ReminderService: Triggers alerts or reminders for upcoming tasks.

DailyReportGenerator: Compiles a daily summary of pending and completed tasks.

Utilities: Date/time formatting, validation, sorting utilities.

Proposed Architecture - Description

List of Modules

1. Task Module

Represents the individual task entity.

Attributes: title, description, date, start time, end time, priority, status.

2. Task Manager Module

Handles business logic for:

- Adding new tasks
- Editing or deleting existing tasks

3. User Interface Module

Captures user input and displays output.

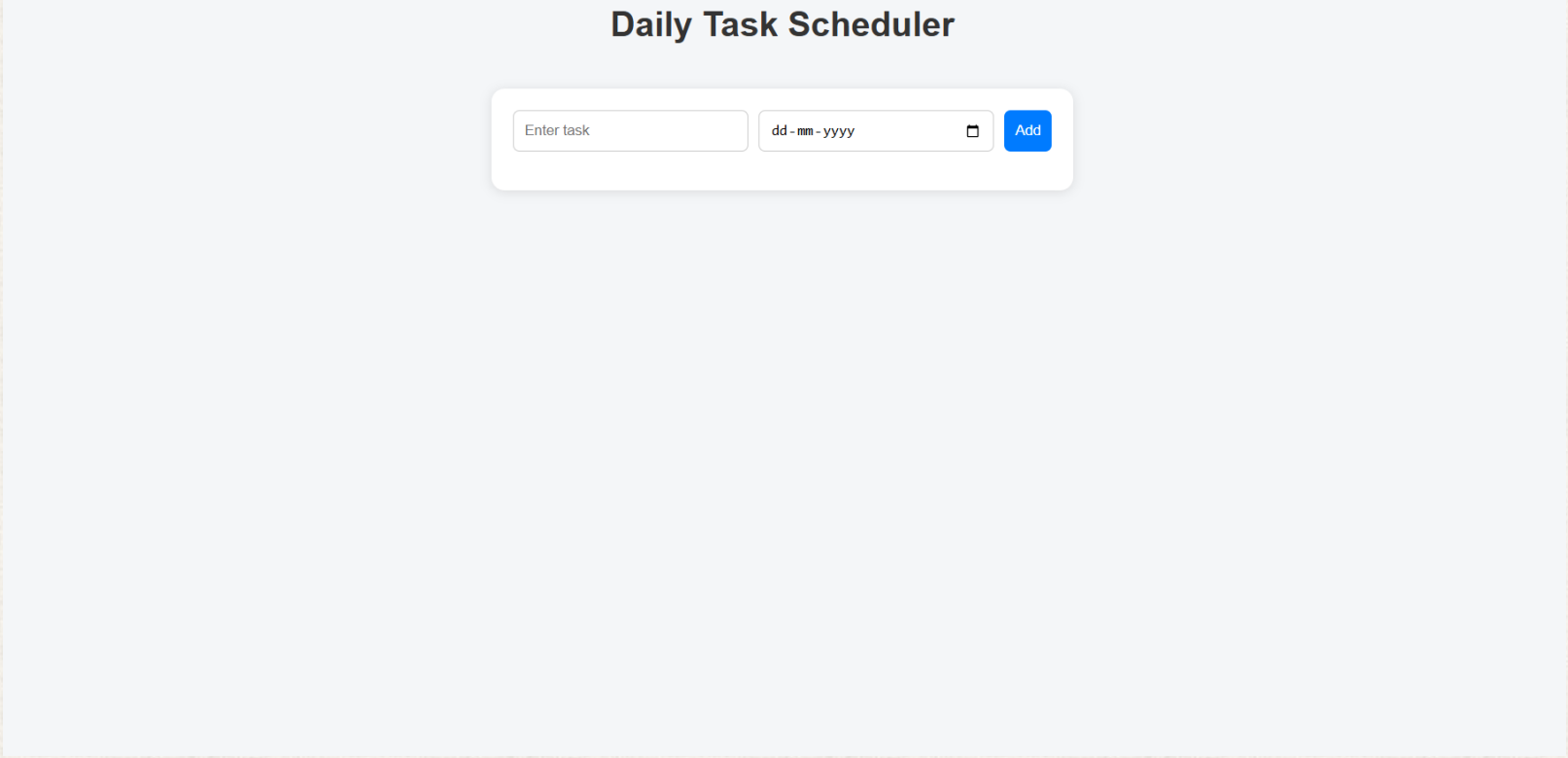
May be console-based (Scanner) or GUI (Swing/JavaFX).

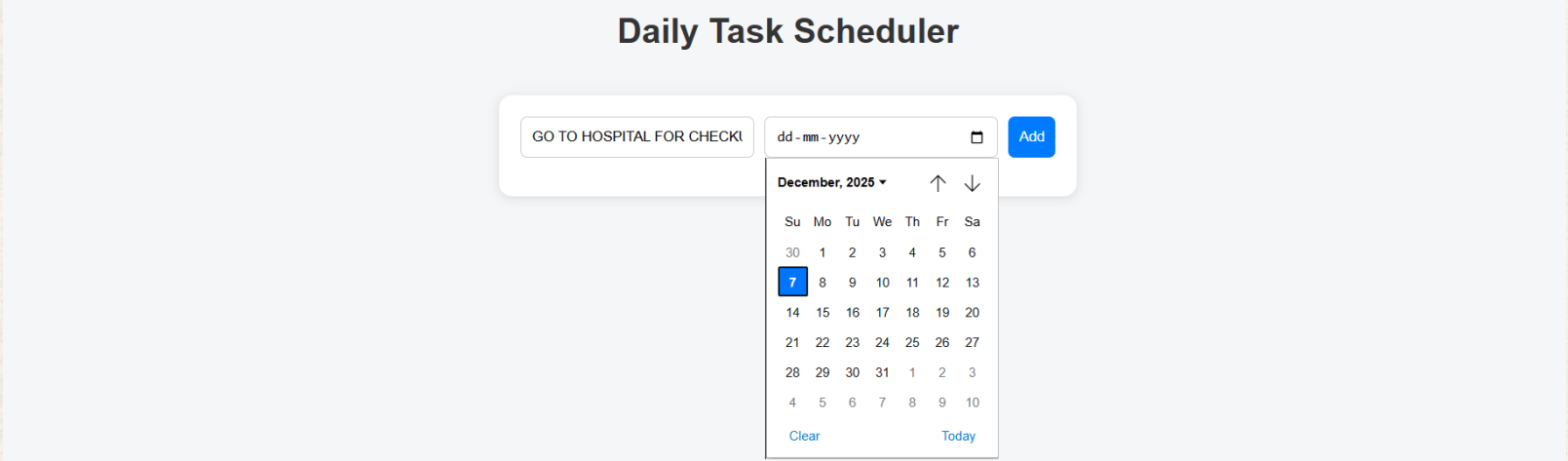
4.Storage Module
Ensures persistence of task data.
Reads and writes task data to file (e.g., .txt, .csv, or .json).
Handles file I/O exceptions gracefully.

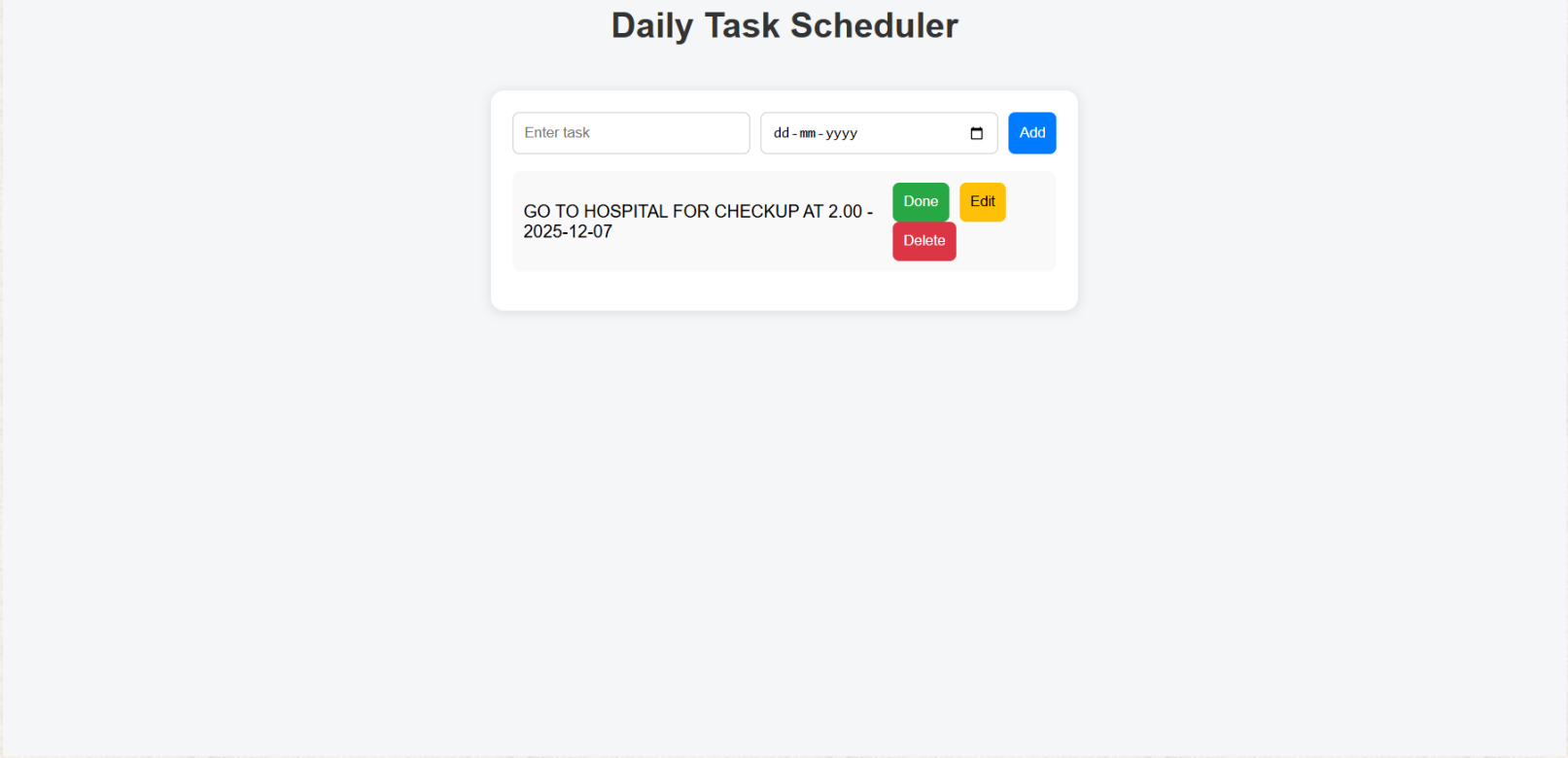
5. Reminder Module (Optional)
Sends reminders or alerts for upcoming tasks.
May use system time checks or threads.

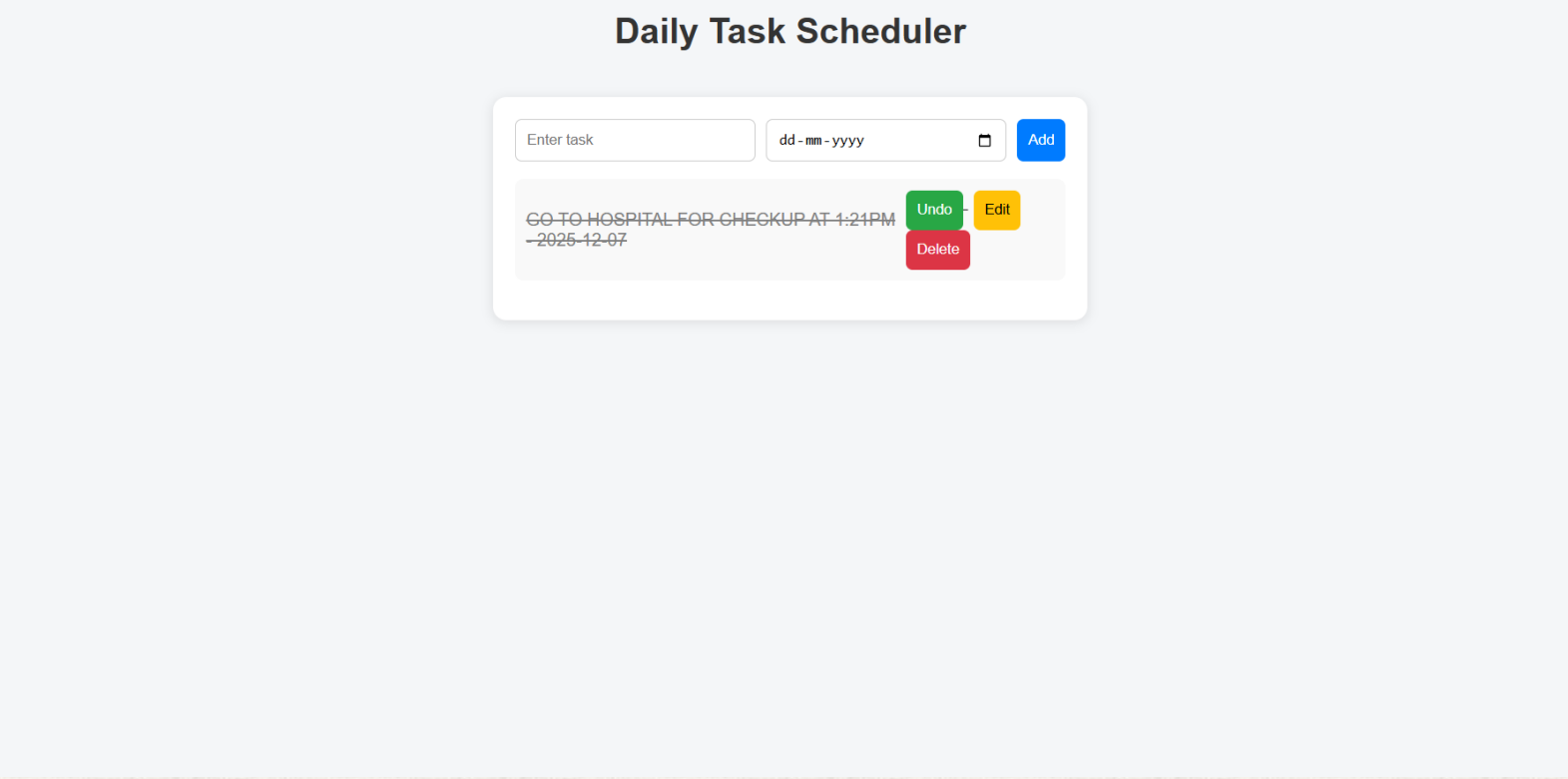
6. Daily Report Generator (Optional)
Creates a daily summary of:

- Completed tasks
- Pending tasks
- Overdue tasks


Daily Task Scheduler
Enter task
dd-mm-yyyy
Add


Daily Task Scheduler
GO TO HOSPITAL FOR CHECKI
dd-mm-yyyy
Add
December, 2025
Su Mo Tu We Th Fr Sa
30 1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31 1 2 3
4 5 6 7 8 9 10
Clear
Today


Daily Task Scheduler
Enter task
dd - mm - yyyy
Add
GO TO HOSPITAL FOR CHECKUP AT 2.00 - 2025-12-07
Done
Edit
Delete


Daily Task Scheduler
Enter task
dd - mm - yyyy
Add
GO TO HOSPITAL FOR CHECKUP AT 1:21PM - 2025-12-07
Undo
Edit
Delete

Description of Modules

Task Module – Defines task properties like title, time, and status.

Task Manager – Handles task operations: add, delete, update, list.

User Interface – Takes user input and shows output (console or GUI).

Storage Module – Saves and loads tasks from files.

Reminder Module – Sends alerts for upcoming tasks. *(Optional)*

Report Module – Generates daily task summaries. *(Optional)*

Utility Module – Provides helper functions (validation, formatting).

Thank You

ANY QUERIES???