

# **SMART TASK MANAGER (AUTOMATED TASK REMINDER & TRACKING APPLICATION)**

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# PROBLEM STATEMENT

- Many students and working people find it hard to manage daily tasks because tasks are not properly organized and deadlines are often missed.
- Most existing task management methods are either too simple or too complex and do not provide personalized access for each user.

# SOLUTION

- This project aims to create a Automated Task Reminder and Tracking Application where users can securely add, update, and track their tasks.
- The application offers task management based on priority, status, and deadlines with multiple views like table, card, and calendar to improve productivity.

# PROJECT OBJECTIVES

To develop a simple and user-friendly Task Reminder Application for effective task management.

To enable users to create, update, view, and delete tasks based on priority and status.

To implement secure user authentication and session management for user-specific access.

To provide multiple task visualization options such as table, card, calendar views.

To help users improve productivity by tracking task progress and deadlines efficiently.

# TECHNOLOGY STACK



**Frontend:-** HTML,CSS,Thymeleaf

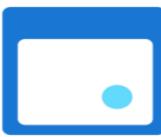


**Backend:-** Java, Springboot, MVC



**Database:-** MySQL

**Security:-** Spring security

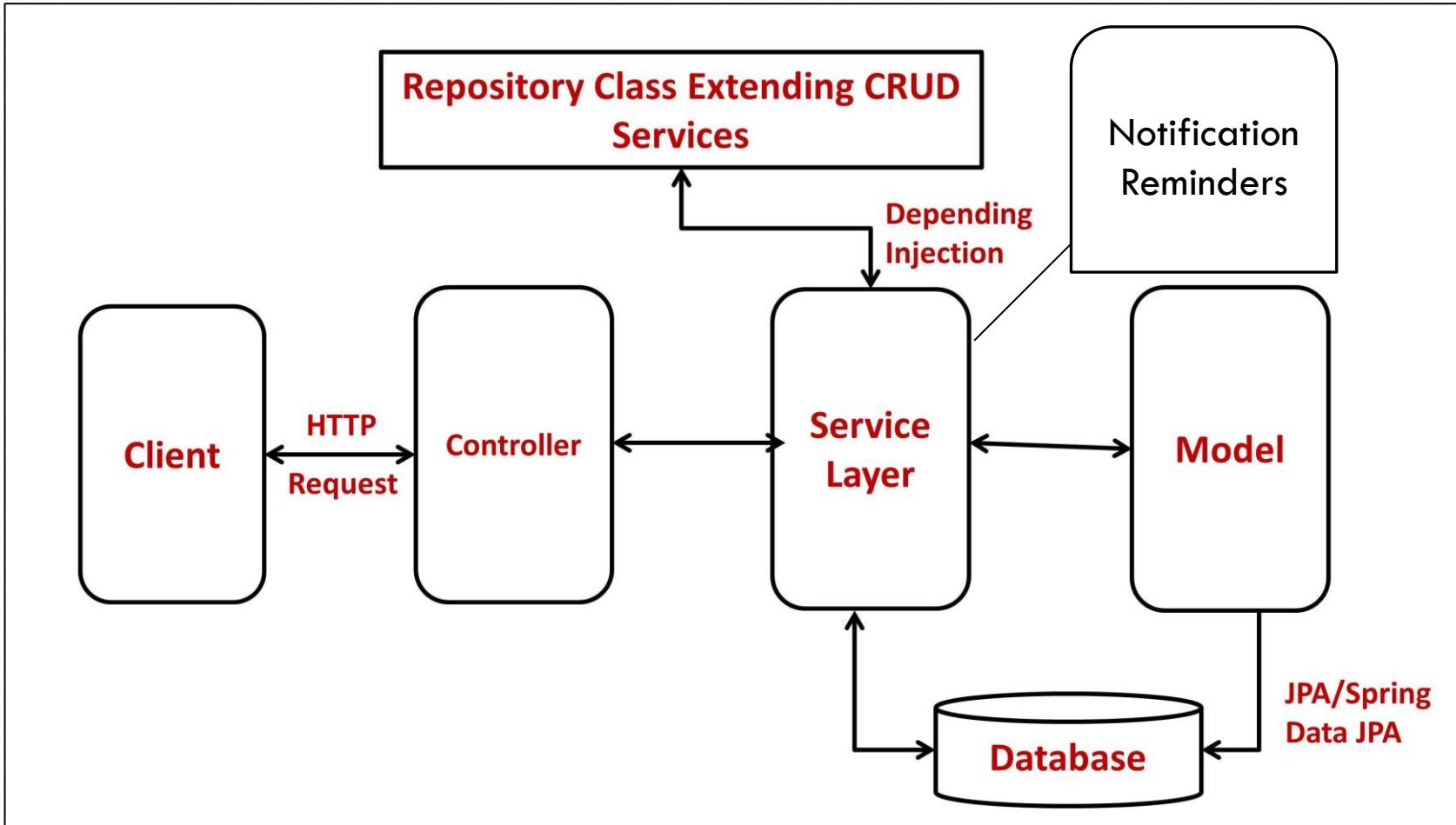


**Libraries:-** Apache,  
FullCalendar,  
BCrypt

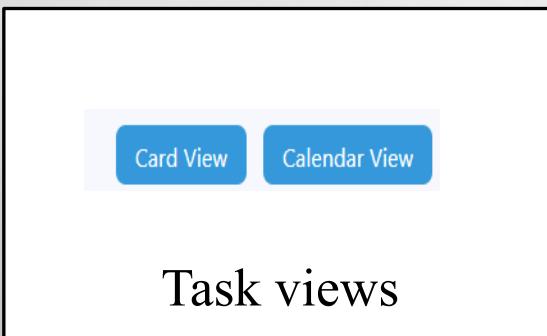
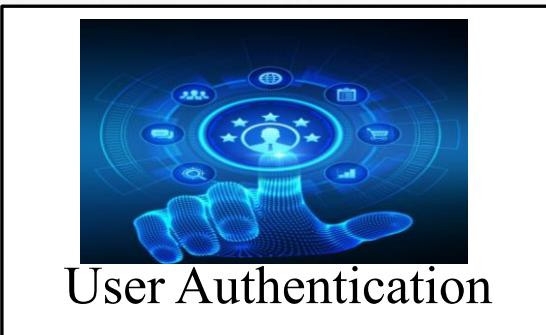


**Development Tools:-** VS  
code, Maven, Github

# SYSTEM ARCHITECTURE



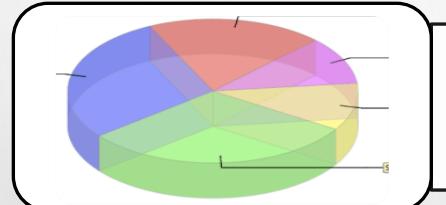
# MODULES IMPLEMENTED



# KEY FEATURES AND UI



- User- Specific Task Management



- Dashboard & progress tracking



- Data export and profile management



- Email Reminders and notification

The screenshot displays the 'Task Reminder' application interface. At the top, there's a header with 'Welcome, chotu' and navigation links for 'Profile', 'Logout', and 'Dashboard'. A 'Dark Mode' button is also present. The main area is titled 'Task Reminder' and shows a summary of tasks: 1 Pending, 1 InProgress, and 0 Done. Below this is a search and filter section with fields for 'Task Name', 'Description', 'Due Date' (dd-mm-yyyy), 'Priority' (Low), and 'Status' (Pending). There are buttons for 'Add task', 'Card View', 'Calendar View', 'Filter', and 'Download Excel'. A table lists two tasks: 'java' (learn java) due on 2026-02-01 with priority MEDIUM and status PENDING; and 'spring' (learn) due on 2026-02-12 with priority MEDIUM and status IN\_PROGRESS. Each task has 'View', 'Edit', and 'Delete' buttons. The bottom left shows a 'Dashboard Overview' with counts for Total Tasks (1), Completed (0), Pending (1), In Progress (0), Overdue (0), and High Priority (0). The bottom left also shows a 'Due Today' count of 0.

# CHALLENGES AND LEARNINGS

CHALLENGES	LEARNINGS
Understanding how to manage user login and show data separately for each user was difficult at first.	Learned how a complete web application works using frontend and backend together.
Combining many features like dashboard, calendar, and Excel download without causing errors took time.	Gained knowledge about user authentication, sessions, and secure data handling.
Fixing backend errors related to database, file upload, and page redirections was challenging.	Improved debugging skills by solving real project errors step by step.

# FUTURE ENHANCEMENTS



Advanced Analytics and reports



Mobile Application Integration



Cloud Deployment and Backup



Automated Reminders

THANK YOU