



JAWAHARLAL NEHRU ENGINEERING COLLEGE
Department of Computer Science and Engineering
(Mahatma Gandhi Mission University, Chhatrapati Sambhaji Nagar)

WEB TECHNOLOGY-II PROJECT REPORT
ON
“TASK MANAGEMENT SYSTEM”

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Academic Year 2024-2025

CERTIFICATE

This is to certify that the project report

“TASK MANAGEMENT SYSTEM”

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is a bonafide work carried out by them under the supervision of Mr. Sunil Jaiswal and it is approved for the subject SSP Lab in academic year 2024-2025 Semester V at JNEC, MGM University, Ch. Sambhajinagar.

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INTRODUCTION

The Task Management System is an intuitive tool aimed at organizing and streamlining task management for users. Designed for easy tracking, updating, and managing of tasks, it ensures that users can efficiently keep track of their responsibilities and deadlines. This system includes core features like task creation, priority assignment, status tracking, and historical records, along with a simple notes feature to provide additional context for each task.

Objectives:

1. **User-Friendly Task Tracking:** Users can create, update, and delete tasks with ease, allowing for a streamlined approach to task management.
2. **Priority and Status Management:** The system enables users to set priorities (Low, Medium, High) and track task status, ensuring efficient organization and focus.
3. **Comprehensive Record-Keeping:** Task history and note-taking capabilities offer users an organized way to record details, ensuring that no task progress or information is lost.
4. **Secure and Scalable User Management:** With secure login and user-specific tasks, the system provides a scalable, secure foundation for task management, supporting future integrations if needed.

TECH STACK

1. Frontend:

- **HTML & CSS:** Used to design and structure the web interface, allowing customers to browse the menu, add items to their cart, and place orders. HTML provides the framework, while CSS styles the pages for a user-friendly experience.

2. Backend:

- **Java:** Handles the core functionality and logic of the system, ensuring that requests from users are processed efficiently.
- **JSP (Java Server Pages):** Dynamically generates web content by embedding Java code into HTML pages, displaying data like menu items or order confirmation.
- **Java Servlets:** Processes user requests, such as adding items to the cart or placing orders, and interacts with the database to retrieve or store data.

3. Database:

- **MySQL:** Stores all customer, menu, and order information, ensuring efficient data management and retrieval for order processing.

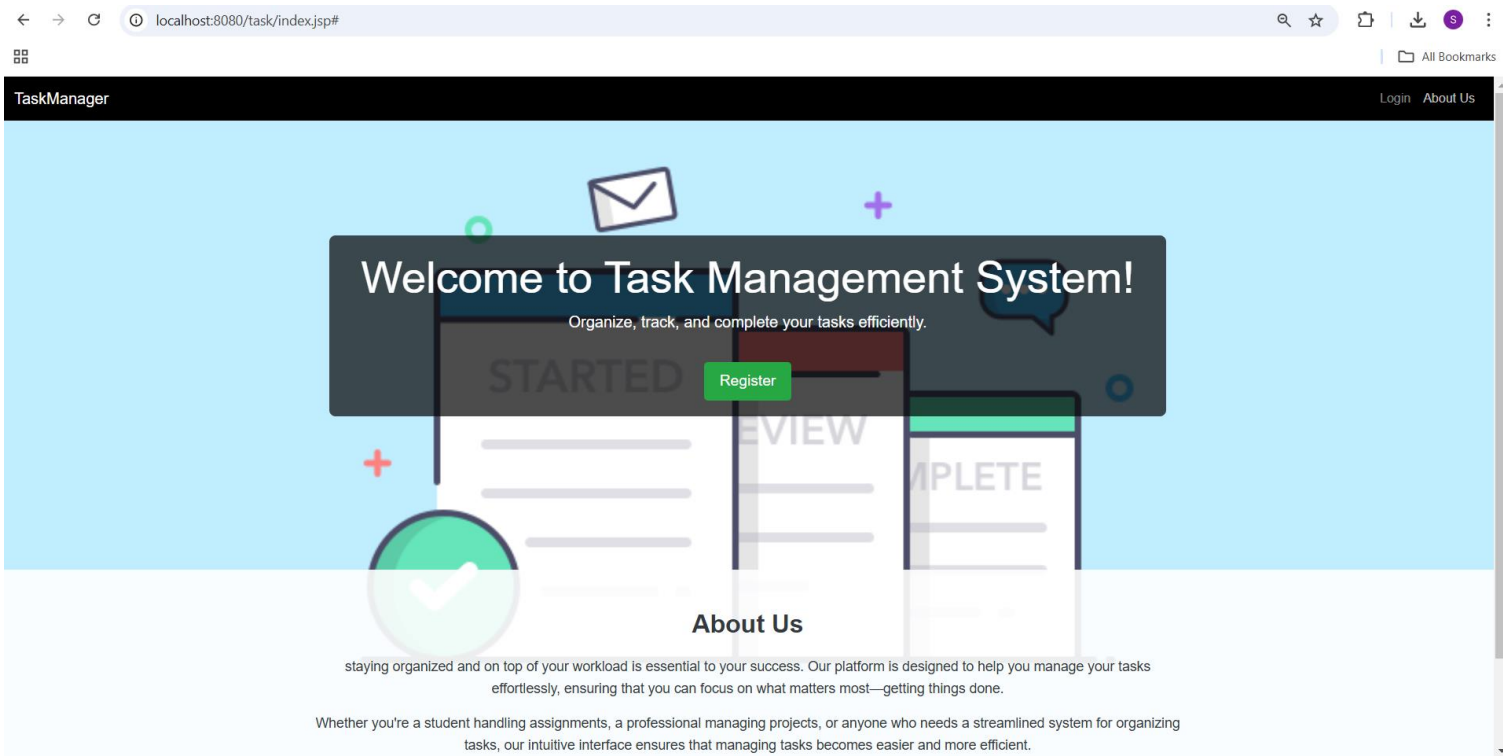
4. Server:

- **Apache Tomcat:** Hosts the web application, handling requests and ensuring smooth communication between the front end and back end.


DESIGN AND IMPLEMENTATION

1. Dashboard

a. **Register:** using SignupServlet.java and signup.jsp.



← → ↻ localhost:8080/task/register.jsp 🔑 🔍 ☆ 📁 ⬇️ S ⋮
🗄️ All Bookmarks



Register

Username:

Email:


Password:

[Register](#)

[Already have an account? Login here.](#)

b. Login: using SigninServlet.java and signin.jsp.

← → ↻ localhost:8080/task/login.jsp 🔑 🔍 ☆ 📁 ⬇️ S ⋮
🗄️ All Bookmarks



Login

Username:

Password:

[Login](#)

[Don't have an account? Register here.](#)

c. tasks

← → ↺ localhost:8080/task/viewTasks.jsp 🔍 ☆ 📁 | 📄 All Bookmarks

☰

Welcome, User

- View Tasks
- Add Task
- History
- Notes Section
- Logout

Your Tasks

Title	Description	Priority	Start Date	End Date	Status	Actions
meeting	gdsc	High	2024-11-05	2024-11-05	Pending	Edit

Add New Task

← → ↺ localhost:8080/task/addTask.jsp 🔍 ☆ 📁 | 📄 All Bookmarks

☰

Welcome, User

- View Tasks
- Add Task
- History
- Notes Section
- Logout

Add Task

Title:
submmision

Description:
all subjects

Priority:
high

Start Date:
22-10-2024

End Date:
04-11-2024

Status:
In Progress

Add Task

Cancel

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localhost:8080/task/viewTasks.jsp

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All Bookmarks

Welcome, User

View Tasks

Add Task

History

Notes Section

Logout

Your Tasks

Title	Description	Priority	Start Date	End Date	Status	Actions
meeting	gdsc	High	2024-11-05	2024-11-05	Pending	Edit
submmision	all subjects	High	2024-10-22	2024-11-04	In Progress	Edit

Add New Task

D.History of previous task

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localhost:8080/task/history.jsp

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All Bookmarks

Welcome, User

View Tasks

Add Task

History

Notes Section

Logout

Task Deletion History

Title	Description	Priority	Start Date	End Date	Status	Deleted At
exam prepration	study material, notes,practcals,codes	High	2024-10-31	2024-11-10	In Progress	2024-11-03 13:25:38.0

E)Notes section

localhost:8080/task/notes.jsp

Welcome, User

View Tasks

Add Task

History

Notes Section

Logout

Your Notes

hiii

Edit Delete

Add New Note

practical notes.

Add Note

DATABASE

Database Schema Overview:

The system is structured around four core tables:

1. Users: Contains user-specific details.
2. Tasks: Manages individual task details and status.
3. Task History: Maintains records of completed or modified tasks.
4. Notes: Stores additional notes related to tasks or general user information.

```
mysql> desc notes;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
content	text	NO		NULL	
user_id	int	NO	MUL	NULL	
created_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

```
4 rows in set (0.01 sec)
```

```
mysql> desc task_history;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
title	varchar(255)	NO		NULL	
description	text	YES		NULL	
priority	varchar(50)	YES		NULL	
start_date	date	YES		NULL	
end_date	date	YES		NULL	
status	varchar(50)	YES		NULL	
deleted_at	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED

```
8 rows in set (0.00 sec)
```

```
mysql> desc tasks;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
user_id	int	YES	MUL	NULL	
title	varchar(100)	NO		NULL	
description	text	YES		NULL	
priority	enum('Low','Medium','High')	NO		NULL	
start_date	date	NO		NULL	
end_date	date	NO		NULL	
status	enum('Pending','In Progress','Completed')	YES		Pending	

```
8 rows in set (0.00 sec)
```



```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
username	varchar(50)	NO	UNI	NULL	
email	varchar(100)	NO	UNI	NULL	
password	varchar(255)	NO		NULL	

```
4 rows in set (0.00 sec)
```

Conclusion

The Task Management System is designed to enhance productivity and organization by offering a structured and user-friendly approach to task management. By allowing users to create, prioritize, and track their tasks through an intuitive web interface, the system optimizes workflow, reduces oversight, and enables effective time management.

With a reliable backend developed using Java and JSP, coupled with robust data management via MySQL, the system ensures secure and accurate tracking of user tasks, notes, and history. The integration of Apache Tomcat as the application server provides a seamless connection between the frontend and backend, delivering a responsive experience to users.

Designed with scalability in mind, the system can support future expansions, such as notifications or integrations with other productivity tools, further increasing its functionality and appeal.

In summary, this Task Management System addresses essential organizational needs, promoting efficient task tracking, enhanced productivity, and improved user experience. Its implementation can lead to greater accountability, better time management, and a higher level of task organization, making it a valuable asset for both personal and professional use.