



Task Management Project

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INTRODUCTION

- THIS PROJECT IS A TASK MANAGEMENT SYSTEM DESIGNED FOR ADMINISTRATORS AND USERS.
- BUILT USING MICROSERVICES ARCHITECTURE TO ENHANCE SCALABILITY AND MAINTAINABILITY.

System Architecture Overview

- **MICROSERVICES:**

- User Service
- Task Service
- Submission Service
- Eureka Server (Service Discovery)
- Web UI (React Frontend)

- **BACKEND POWERED BY SPRING BOOT AND MYSQL FOR DATA STORAGE.**

Technology Stack

BACKEND: SPRING BOOT (JAVA)

DATABASE: MYSQL

- **FRONTEND:** REACT.JS
- **STATE MANAGEMENT:** REDUX TOOLKIT
- **STYLING:** TAILWIND CSS
- **COMPONENT LIBRARY:** MATERIAL-UI (MUI)

Project Objectives

- PROVIDE A STRUCTURED WAY FOR TASK ASSIGNMENT AND TRACKING.
- IMPROVE EFFICIENCY IN TASK SUBMISSION AND APPROVAL.
- ENSURE SMOOTH COMMUNICATION BETWEEN ADMINS AND USERS.

User Roles & Workflow

Admin:

- Creates tasks
- Assigns tasks to users
- Reviews task submissions
- Accepts or declines submissions

User:

- Views assigned tasks
- Completes and submits tasks
- Views past submissions

Key Features

- TASK CREATION & ASSIGNMENT
- USER AUTHENTICATION
- TASK SUBMISSION & HISTORY
- ROLE-BASED ACCESS CONTROL
- ADMIN TASK REVIEW SYSTEM