

TaskTracker - Fullstack Project Documentation

Version: 1.0.0

Technologies: Java Spring Boot, MySQL, Thymeleaf, React, Vite, Tailwind CSS, Framer Motion

■ Project Overview

TaskTracker is a Fullstack Team Task Management System designed to help teams efficiently assign, track, and manage tasks. This application includes a Java Spring Boot backend and a modern React frontend.

■ Key Features

- Role-based authentication (Admin & Employee)
- Task creation, assignment, and management
- Progress tracking and visual analytics
- Responsive UI with smooth animations
- Notification system
- Local data management and real-time updates

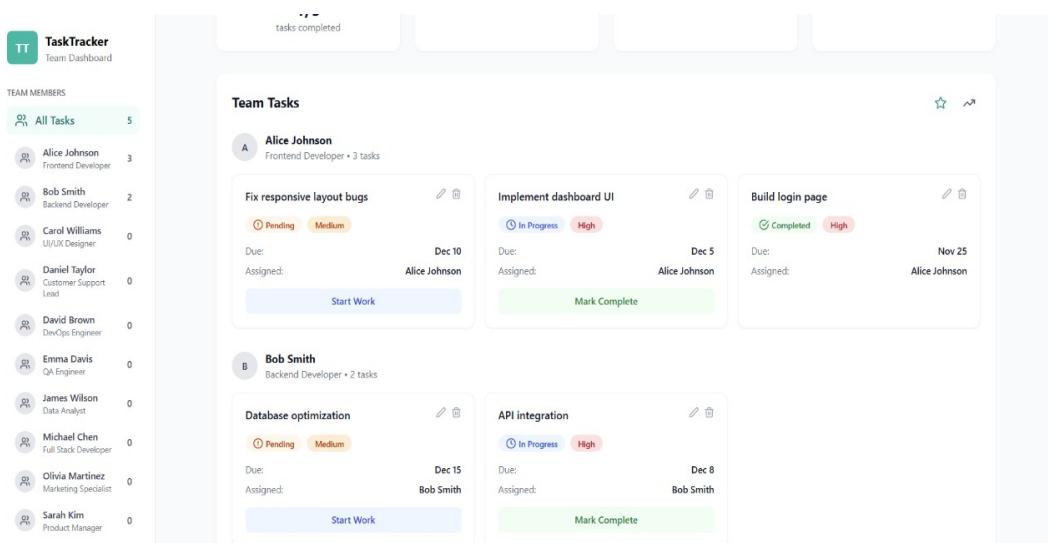
■ Tech Stack

Backend: Java, Spring Boot, Hibernate, MySQL

Frontend: React, Vite, Tailwind CSS, Framer Motion

Other: Maven, Embedded Tomcat, Thymeleaf

■ Application Screenshots



Team Dashboard

5 total tasks • 20% completed

Completion Rate
20%

In Progress: 2 Pending: 2 Overdue: 0

All Tasks: 5

Team Member	Role	Completed Tasks
Alice Johnson	Frontend Developer	3
Bob Smith	Backend Developer	2
Carol Williams	UI/UX Designer	0
Daniel Taylor	Customer Support Lead	0
David Brown	DevOps Engineer	0
Emma Davis	QA Engineer	0
James Wilson	Data Analyst	0
Michael Chen	Full Stack Developer	0
Olivia Martinez	Marketing Specialist	0
Sarah Kim	Product Manager	0

Team Tasks

Task Details	Due Date	Assigned To	Status
Fix responsive layout bugs	Dec 10	Alice Johnson	Pending
Implement dashboard UI	Dec 5	Alice Johnson	In Progress
Build login page	Nov 25	Alice Johnson	Completed

[Start Work](#) [Mark Complete](#)

■ Backend (Java Spring Boot)

The backend handles authentication, task assignments, database operations, and business logic. It uses Spring Boot with JPA and MySQL.

■ Backend Folder Structure

- controller/
- entity/
- repository/
- service/
- application.properties

■■ Backend Setup

- 1 ■■ Install Java and Maven
- 2 ■■ Configure MySQL in application.properties
- 3 ■■ Run mvn spring-boot:run

■■ Frontend (React + Vite)

The frontend is a fully interactive React dashboard built with Tailwind CSS, designed for intuitive task management and visualization.

■ Frontend File Structure

```
src/
  ■■■ App.jsx
  ■■■ components/
  ■■■ hooks/
  ■■■ assets/
  ■■■ index.css
```

■■ Frontend Setup

- 1 ■■■ npm install
- 2 ■■■ npm run dev
- 3 ■■■ Access <http://localhost:5173>

■ Future Enhancements

- JWT Authentication
- REST API for React
- Email Notifications
- Mobile App Version

■■■ **Author:** Sushanth

Converted from PHP to Java Spring Boot

Designed for ProU Internship Fullstack Assignment