

# 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

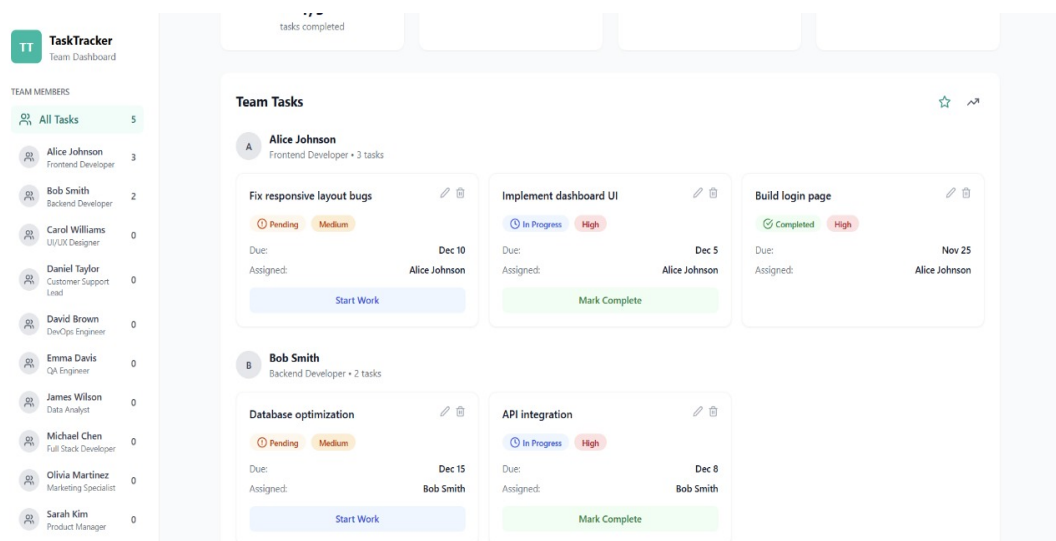
## ■ Tech Stack

**Backend:** Java, Spring Boot, Hibernate, MySQL

**Frontend:** React, Vite, Tailwind CSS, Framer Motion

**Other:** Maven, Embedded Tomcat, Thymeleaf

## ■ Application Screenshots



**TaskTracker**  
 Team Dashboard

5 total tasks • 20% completed

All Status
 

+

 Add Task

TEAM MEMBERS

	All Tasks	5
	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

Completion Rate

20%

1/5 tasks completed

In Progress

2

Pending

2

Overdue

0

Team Tasks

Alice Johnson  
 Frontend Developer • 3 tasks

Fix responsive layout bugs

Due: Dec 10

Assigned: Alice Johnson

Start Work

Implement dashboard UI

Due: Dec 5

Assigned: Alice Johnson

Mark Complete

Build login page

Due: Nov 25

Assigned: Alice Johnson

## ■ 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