

Software Requirements Specification (SRS) - TaskManager App

1. Introduction

The TaskManager application is designed to manage and track tasks for individual users within an organization. It supports role-based operations for administrators and users, enabling streamlined task assignment, status tracking, and review workflows. The frontend will be developed using React and Tailwind CSS for a modern, responsive interface. For data storage and retrieval during development, JSON Server will be used to simulate a backend API.

2. Roles and Functional Requirements

Admin Role:

- Create new user accounts
- Perform full CRUD operations on any user's tasks
- Assign tasks to all users or specific users
- View user list and recent activity on the home page dashboard
- View detailed user profiles and activity logs

User Role:

- Request creation of a new task
- View all assigned tasks
- Change task status to 'In Progress'
- Mark task as 'Completed' for review
- View task history and status changes
- After admin review, completed tasks are marked as 'Final Completed'

3. Task Workflow

- User requests a new task (pending approval)
- Admin approves and assigns the task
- User changes status to 'In Progress' when working on the task
- User marks the task as 'Completed' for admin review
- Admin reviews and marks the task as 'Final Completed' if approved

4. System Requirements

- Frontend: React.js (component-based UI)
- Styling: Tailwind CSS
- Backend Simulation: JSON Server for CRUD operations during development
- State Management: React useState, useEffect (optionally Context API for global state)
- Routing: React Router for navigation between pages
- Authentication: Simple role-based logic handled in frontend (admin/user roles)
- Data Storage: JSON Server database file (db.json) containing users, tasks, and activity logs

5. Pages and Components

Admin Pages:

- Dashboard: Overview of user activity and tasks
- User Management: Create and edit users
- Task Management: Create, edit, delete tasks
- User Profile: Detailed activity and task history

User Pages:

- Dashboard: List of assigned tasks
- Request Task: Form to request new tasks
- Task Detail: View and update task status
- Profile: View personal activity and completed tasks