

MERN Stack Intern Task (SQL Edition)

Objective

Create a simple Task Manager Web App where a user can:

- Sign up and log in (JWT auth)
- Add tasks with a title and status
- View tasks grouped by status: To Do, In Progress, Done
- Update task status

Tech Stack

- Frontend: React.js
- Backend: Node.js + Express
- Database: MySQL or PostgreSQL (via Sequelize or Knex.js)

Frontend (React.js)

- Pages: Login, Signup, Task Dashboard
- Use functional components with hooks
- API calls using Axios or Fetch
- Responsive design using TailwindCSS / Bootstrap / MUI

Backend (Node.js + Express)

- REST API Endpoints:
 - POST /api/signup
 - POST /api/login
 - GET /api/tasks
 - POST /api/tasks
 - PUT /api/tasks/:id
- Use JWT for authentication
- Use bcrypt for password hashing

Database (SQL)

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Use Sequelize, Prisma, or Knex.js

Tables:

- users: id, name, email, password
- tasks: id, title, status, user_id, created_at

Task Status Flow

To Do -> In Progress -> Done

Bonus (Optional)

- Task editing and deletion
- Search or filter tasks
- Deployment on Render/Vercel

Deliverables

- GitHub repo with README and setup instructions
- Working local app
- Screenshots or screen recording

Time Allotment

2 Days (48 hours) from assignment

Evaluation Criteria

- Functional app covering required features
- Correct database modeling
- Working JWT auth and CRUD
- Clean UI and code
- Good Git usage