

Dear Candidate,

Welcome to your coding test. This test is designed to evaluate your full-stack development skills, including your understanding of API design, frontend development, and integration between both layers. The goal is to assess your ability to deliver a minimal but functional product in a short amount of time.

Task Description

Build a mini project management system where a user can:

1. Create a project (name, description)
2. Add tasks under a project (task name, due date, status)
3. View the list of projects and associated tasks
4. Toggle the status of a task (e.g., from 'pending' to 'done')

Backend Requirements

- Use Node.js (Express or similar)
- Data can be stored in memory (no database required)
- Implement the following API endpoints:
 - POST /projects
 - GET /projects
 - POST /projects/:projectId/tasks
 - GET /projects/:projectId/tasks
 - PATCH /tasks/:taskId/status

Frontend Requirements

- Use React or Vue
- Basic UI to:
 - Create new projects and tasks
 - View project list with tasks
 - Toggle task status from the UI

Bonus Points

- Use TypeScript (backend or frontend)
- Add basic styling or use a component library
- Implement search or filtering on the task list
- Use localStorage to persist data between refreshes

Submission

- Your code should be saved locally and demonstrated on your laptop.
- You will be asked to walk through your code and logic at the end of the test.

Evaluation Criteria

- Functionality (API & UI work as described)
- Code organization and readability
- Integration between backend and frontend
- Use of best practices (naming, structure, etc.)
- Optional: Bonus features implemented