

Full Stack Development Internship Assessment

Overview:

This assessment task is meant to test your knowledge and understanding on full stack development. We will assess the following criteria:

1. Reading and comprehension skills.
 2. Frontend and Backend development skills.
 3. Code neatness and ease of understanding for external developers.
 4. Time management skills.
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Task Instructions

Build a *Team Task Manager* web application where users can:

- Register/login securely.
- Create and manage teams.
- Add members to teams.
- Create, assign, and manage tasks within teams.
- View tasks filtered by team or assigned members.

Frontend

- React + Tailwind CSS + Vite.
- Login/Register form.
- Dashboard (team list, task list).
- Task form modal (create/update).
- Search and filter tasks (by team or assignee).
- Clean and responsive UI.

Backend

- Node js +Express.
- RESTful API and CRUD routes:
 - /auth Register/Login.
 - /teams Create/Manage teams.
 - /tasks Create/Assign/Update/Delete Tasks.
- Validation (e.g., Joi or express-validator).

Authentication

- PassportJS + Express Session.
- Store session in PostgreSQL, fallback to memory in dev.
- HTTP-only cookies.
- Protect all non-auth routes.

Database

- PostgreSQL
- Use Knex js or pg to query:
 - Users table.
 - Teams table.
 - Tasks table .
 - Membership (user-team relationship) table.

Version Control

- Git & GitHub (must show branching or PR history).

Security Practices

- Auth middleware to restrict access.
- Input validation & sanitization.
- No password in plain text (use bcrypt).

Bonus Feature (optional, not mandatory)

- Task due date reminders (login only)

- Role-based access (e.g., only team creators can delete team).
 - Invite team members via email (stubbed logic, no SMTP needed).
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Submission Requirements

- GitHub repo with:
 - Working code (backend + frontend).
 - Setup instructions.
 - SQL scheme or migration files.
 - Deployed version
 - A deployed version is required, how or where it is deployed is up to you. We recommend the following platforms, however you can choose your own:
 - Replit & Render.
 - Once you have completed the assessment message us on Indeed with the deployed link and GitHub repository link.
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Timeline

- You will have 120 hours (roughly 5 days) to complete this assessment from when you receive it.
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