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.

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 from 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
- PasswortJS + 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).

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 if 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.

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