Hackosquad React & Node.js Internship

Final Round Project Challenges

This is the final round! Completing this will add you to our team as a React intern.

Deadline: 23 May 2025, Midnight

Welcome to the Final Round!

Hello, amazing developers! We're thrilled to see you in the final round of the Hackosquad React & Node.js Internship. Below, you'll find the project challenges. You only need to complete ONE project of your choice. Feel free to use any AI tools (ChatGPT, Bolt, Copilot, Cursor, etc.) or code manually—whatever works best for you!

If you'd prefer a different project, no worries! Just reach out to the team via the chat feature on the [hiring.hackosquad.studio portal](hiring.hackosquad.studio) or send an email to request a switch. There's no pressure to complete the entire assignment in one go—share your progress in the chat, even if it's step-by-step. Even if you don't finish, your effort counts, and you'll still be considered. Need help? We're here for you—just message us!

You can deploy your frontend on Netlify or Vercel (backend deployment is optional). If the assignment feels challenging, let us know, and we'll support you every step of the way. Let's build something awesome together!

Project Challenges

Choose ONE of the following projects to complete.

1. **File Manager Web App**

   - Users can upload files through the UI (multiple types supported).

   - Display list/grid of files with name, type, size, and upload date.

   - Delete files individually.

   - Organize files into folders; create/delete folders.

   - Backend APIs to manage files and folders.

   - Responsive React frontend.

2. **Weekly Task Planner**

   - Weekly calendar view with days as columns.

   - Add, edit, delete tasks with title, description, and priority/category.

   - Mark tasks as completed.

   - Filter/sort tasks by day, category, or status.

   - Persist tasks via backend APIs.

   - Smooth, clean React UI.

3. **Learning Roadmap Viewer**
   - List/grid of skill roadmaps (e.g., Frontend Developer, Data Science).
   - Roadmaps have stages/milestones with linked learning resources.
   - Show progress visually.
   - Filter roadmaps by category or difficulty.
   - Responsive frontend with read-only backend APIs.

4. **Learning Path Creator**
   - Create learning paths with title and description.
   - Add/edit/delete steps with resource links and notes.
   - Browse/search public learning paths.
   - CRUD backend APIs.
   - Intuitive React UI for building and browsing paths.

5. **Visual Skill Roadmap Builder**
   - Create skill roadmap with draggable nodes representing topics.
   - Connect nodes to show dependencies.
   - Link resources to nodes.
   - Save/edit/delete roadmaps and nodes via backend.
   - Track and display progress visually.
   - Responsive React UI with drag & drop.

6. **Color Palette Generator (Frontend Only)**
   - Generate random color palettes (3-5 colors).
   - Lock favorite colors and regenerate others.
   - Copy hex codes to clipboard.
   - Optional color adjustment sliders (RGB/HSL).
   - Build a clean, responsive React frontend with a focus on usability and smooth user experience.

7. **Password Strength Checker (Frontend Only)**
   - Input password with real-time strength feedback (weak/medium/strong).
   - Display criteria met: length, uppercase, numbers, symbols.
   - Tips to improve password strength.
   - Simple React UI with live updates.
   - No backend required.

Submission & Support Guidelines

- **Complete and Submit**: Aim to complete your chosen project by the deadline: **23 May 2025, midnight**. Submit via the hiring.hackosquad.studio portal.

- **Share Progress**: Feel free to share small updates in the portal's chat feature. Every step counts, and partial progress is valued!

- **Deployment**: Deploy your frontend on Netlify or Vercel. Backend deployment is optional.

- **Need Help?**: If you're stuck or the project feels tough, message us via the portal or email. We're here to guide you!

- **Switch Projects**: Want to work on a different project? Request permission through the portal's chat or email.

- **AI Tools**: Use any AI tools (ChatGPT, Bolt, Copilot, Cursor, etc.) or code manually—your choice!

Good Luck!

We can't wait to see the clean, functional, and user-friendly apps you'll build. Dive in, have fun, and let's create something amazing together! If you have any questions, reach out anytime. Happy coding!