1. Mobile App (React Native + Expo) – [1.5–2 hrs]

Task:
Build a simple mobile app with:

- Login screen (email/password)

- To-Do list screen (create, view, delete tasks)

- Consume GraphQL API (hosted separately)

Focus Areas:

- UI/UX basics

- API integration via GraphQL

- React Navigation usage

Bonus:

- Offline support or local state cache

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2. Backend (Node.js + GraphQL) – [1.5 hrs]

Task:
Create a minimal GraphQL server that:

- Supports user login/signup (with dummy auth)

- CRUD for to-do items (user-scoped)

Stack Hints:

- Use Apollo Server

- Store data in-memory or simple file-based persistence (e.g., lowdb)

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3. Web App (React + Vercel) – [1–1.5 hrs]

Task:
Create a simple React web app:

- Same features as mobile: login and to-do list

- Deploy on Vercel and submit live link

Bonus:

- Use a component library (e.g., Chakra UI, Tailwind CSS)

- Responsive design

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4. Cloud (AWS) – [1 hr]

Task:

- Deploy the GraphQL backend to AWS Lambda or EC2

- Or alternatively, write a short deployment plan (architecture, services, cost estimate)

Submission Checklist

Have candidates submit:

- GitHub repo link (organized folders: mobile, backend, web)

- Live Vercel link (web app)

- (Optional) AWS backend link or deployment steps

- README with:

    o Setup instructions

    o Architecture decisions

    o Time taken