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Subject: Backend Round 1 Task – QOTD API | TechLearn Solutions

TechLearn Solutions <techlearnsolutions@gmail.com>

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Hey there Candidate,

As part of **Round 1 of the interview process**, we'd like you to work on a **Backend-focused technical task**. This task is designed to evaluate your backend fundamentals, API design, data modelling, problem-solving ability, and communication.

Task: Build Backend for QOTD (Question of the Day)

Task Overview

You are required to **design and implement the backend logic and APIs** for a **QOTD (Question of the Day)** feature for an edtech platform such as **TechLearn Solutions**.

The QOTD represents a **daily DSA coding challenge** attempted by students globally. Each day, a single question is shown, students submit solutions, and their performance is evaluated.

Functional Requirements

Your backend should support the following core features:

1 QOTD Management

- API to fetch **today's question**

Each question should include:

- Title
- Difficulty (Easy / Medium / Hard)
- Problem statement
- Sample input & output
- Expected output / solution (can be hidden)

2 Submission & Evaluation

- API to submit a user's answer
- Mock or basic evaluation logic is acceptable
- Example: match expected output, predefined test cases, or dummy validation
- Return a clear response (correct / incorrect / partially correct)

Supporting Features (Design-Level)

Design APIs or data structures for:

- Hints
 - Statistics (attempt count, success rate)
 - Leaderboard (top scores / fastest submissions – mock data allowed)
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Data & Tech Stack

- Backend stack of your choice (Node.js preferred but not mandatory)
 - Database can be: In-memory
 - JSON
 - MongoDB / PostgreSQL (optional)
 - No authentication required
 - Focus on **clean structure and scalability**, not completeness
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API Expectations

- RESTful API design
 - Proper status codes
 - Basic error handling
 - Clear and readable code structure
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Deployment (Mandatory)

Please deploy your backend using any platform such as:

- Render
 - Railway
 - Fly.io (or similar)
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Submission Requirements


Please submit:

- GitHub repository link
 - Live deployed API base URL
 - README.md including: Tech stack used
 - API endpoints with sample requests/responses
 - Data model explanation
 - How to run the project locally
 - What you would improve with more time
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Deadline

24 hours from the time you receive this email.

You may submit the task **anytime before the deadline** once completed. There is no need to rush—take your time to design and implement it thoughtfully.

 Please note: Candidates who do not submit the task on time or submit an incomplete task

