


Full Stack Developer – Technical Assignments[#]

 **Location:** Mumbai, India

 **Assignment Type:** Practical Coding Test

 **Expected Duration:** 4–7 hours

Assignment 1: Employee Feedback Portal

Project Brief

Build a simple “**Employee Feedback Portal**” where employees can submit anonymous feedback, and an admin can view and categorize the feedback.

Tech Stack Requirements

- **Frontend:** React.js (with functional components and hooks), Redux (optional)
 - **Backend:** Node.js with Express.js
 - **Database:** MongoDB or MySQL (candidate’s choice)
 - **API:** RESTful API
 - **Bonus:** Use of GitHub repo, basic styling with CSS or any UI library (e.g., Bootstrap)
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Functional Requirements

Employee Side

- A form where an employee can:
 - Enter feedback (text area – required)
 - Choose category: [Work Environment, Leadership, Growth, Others]
 - Submit anonymously (no login required)

Admin Side

- View all submitted feedback in a table with:
 - Feedback text
 - Category
 - Submission time
 - Ability to:
 - Filter feedback by category
 - Mark feedback as **reviewed**
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- Delete feedback (optional)

Backend API Requirements

Design the following APIs:

- POST /feedback – Submit feedback
- GET /feedback – Get all feedback
- GET /feedback?category=xyz – Filter by category
- PATCH /feedback/:id/reviewed – Mark as reviewed
- DELETE /feedback/:id – Delete feedback (optional)

Evaluation Criteria

Criteria	Weightage
Code Quality (clean, modular, DRY)	20%
React Implementation (form, state handling, UI)	20%
Node.js API Design (REST principles)	20%
MongoDB/MySQL Design and Integration	15%
Functional Completeness	15%
Optional Features (UI polish, filters, GitHub, CI/CD)	10%

Deliverables

- GitHub or Zip of full project code
- Brief README.md with:
 - How to run the app
 - API structure
 - Assumptions made
 - What is complete and what's not

Assignment 2: Learning Portal – Reading Synopsis + Gen AI Grading

Project Brief

Build a **Learning Portal** where:

1. Participants can submit a reading synopsis through a web form.
2. Submissions are saved to a database.

3. The system simulates sending the synopsis to a **GenAI service** and returns a **score + feedback**. Checks if the submission is done with Gen AI content in a scale of 1-10 (10 being highest) and gives 0 score if content is more than 8 in scale.
 4. Admin can view all submissions and review AI responses.
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Use Case

Participants in a corporate learning program submit summaries of assigned readings (e.g., articles or case studies), and a GenAI engine provides a score and written feedback.

Core Features

Participant Interface:

- Form fields:
 - Name
 - Email
 - Synopsis (textarea – min 100 words)
 - Topic/Reading Title
- On submission:
 - Data is saved
 - System fetches AI score + feedback (simulate via mock API)
 - Display response on screen

Admin Interface:

- Table listing:
 - Name, Title, Score, Feedback, Submission Time
 - Filter by title or score
 - Optional: mark as reviewed
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Tech Requirements

- **Frontend:** React.js (functional components, hooks)
- **Backend:** Node.js with Express.js
- **Database:** MongoDB or MySQL
- **Mock GenAI API:** Accepts synopsis text, returns mock:

```
{
  "score": 8.5,
  "feedback": "Well-structured and insightful summary."
}
```

Evaluation Criteria

Criteria	Weightage
Frontend Experience & Form Validation	20%
API Integration & Async Handling	20%
Backend & DB Design	20%
Realism of GenAI Integration Simulation	15%
UX Flow and Completion	15%
Bonus (UI polish, Admin filters, etc.)	10%

Deliverables

- GitHub repo or zip file with code
 - README including:
 - Setup steps
 - How GenAI is simulated
 - What's complete/incomplete
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Estimated Time

- 5–7 hours for a solid prototype
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Note to Candidates: Choose **either one** of the assignments to showcase your skillset. A well-finished, thoughtful solution with clean code, documentation, and good UI/UX will be prioritized.

Good luck! 