

# Jenosize Digital Group: Lead Engineer (Full-Stack - Node.js & Next) Test Assessment

Thank you for your interest in the Lead Engineer (Full-Stack) position at Jenosize Digital Group. To assess your technical skills and leadership potential, we've prepared a two-part test assignment that simulates real-world scenarios faced by our Lead Engineers.

## Part 1: Full-Stack Development Challenge (Coding & Design)

**Scenario:** Jenosize is developing a new feature for its marketing automation platform that allows users to create and manage custom email marketing campaigns.

### Task 1: Backend API Design (Written Response):

- Design a RESTful API endpoint for creating a new email campaign.
- Include details such as:
  - HTTP method (POST)
  - Endpoint URL
  - Request body parameters (e.g., campaign name, subject line, email content)
  - Expected response format (success/failure message, campaign ID)
- Briefly explain how you would handle data validation and error handling on the backend.

### Task 2: Frontend User Interface (Code Sample):

Develop a basic user interface (UI) prototype using your preferred frontend framework (e.g., React, Vue.js) that allows users to create a new email campaign. The UI should include elements for:

- Campaign name input field
- Subject line input field
- Email content editor (consider using a rich text editor library)
- Submit button

## Part 2: Technical Leadership & Problem-Solving (Scenario & Response)

**Scenario:** You are leading a team of developers who are working on a complex feature for Jenosize's platform. During development, a critical bug is discovered that is causing unexpected behavior in the user interface.

### Task:

- Describe your approach to troubleshooting and resolving the bug, considering factors like:
  - Communication with the development team

- Utilizing debugging tools and techniques
- Identifying the root cause of the issue
- Implementing a fix and testing its effectiveness
- Briefly discuss strategies you would use to prevent similar bugs from occurring in the future (code reviews, unit testing, etc.)

#### **Evaluation Criteria:**

- **Part 1:**
  - **Backend API Design:** Did you demonstrate a clear understanding of RESTful API principles?
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- **Part 2:**
  - **Frontend User Interface:** Did you create a functional and user-friendly UI prototype using a modern frontend framework?
  - **Technical Leadership & Problem-Solving:** Did you outline a logical and efficient approach to troubleshooting the bug and preventing future issues?

#### **Submission Guidelines:**

Please submit your completed test assignment documents (including code samples and written responses) by [date] to [email address].

We look forward to evaluating your potential to excel as our Lead Engineer (Full-Stack)!