

CODING EXERCISE

OBJECTIVE

Develop a React-based application to showcase your expertise in creating user interfaces, with a focus on cloud operations. This task should demonstrate your aesthetic sense, attention to detail, and advanced coding skills.

ASSIGNMENT

Construct a dashboard for monitoring cloud resources. This dashboard will display mock data relevant to cloud operations, such as server status, resource usage, and alert notifications.

REQUIREMENTS

1. Dashboard Design:

- Develop a responsive layout for various screen sizes.
- o Design a clean, modern user interface with an emphasis on usability.
- o Incorporate interactive elements like dropdowns, modals, and tooltips.

2. Data Visualization:

- Implement various charts (e.g., bar, line, pie charts) to represent mock metrics like CPU usage, memory consumption.
- Optional animations or transitions to enhance data presentation.

3. Interactive Features:

- Build a mock real-time notification system for simulated alerts (e.g., server overload, downtime).
- Implement a search functionality to filter resources based on criteria like status, name, account, region, etc.

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4. Aesthetic Touch:

- Demonstrate your design skills with an effective color scheme, typography, and layout composition.
- Balance visual appeal with functionality.

Mock Real-Time Notifications

- Simulate real-time notifications within the React application.
- Generate periodic or random notifications that mimic real-time alerts for typical cloud operation scenarios.
- Include functionality to interact with (e.g., dismiss) these notifications.

DELIVERABLES

- Source code hosted on a public Git repository (e.g., GitHub).
- A README file containing:
 - o Instructions for running the application.
 - A brief description of your design and technical choices.
- Optional: A live demo of the application hosted on a platform like Netlify or Vercel.

EVALUATION CRITERIA

- Code Quality: Clean, modular, and well-documented.
- Design Aesthetics: Visual appeal and user experience.
- Functionality: Effective implementation of the core features.
- Creativity: Innovation in design and implementation.

TIME FRAME

You have 4 days to complete this assignment. Please inform us if you require additional time due to specific circumstances.

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