

Cynch AI - Text Analyzer

Problem Statement

Build a simple web application that serves as a frontend to a mock AI service for analyzing text data users. The application should allow users to input text and receive a simulated analysis of the text's sentiment (positive, neutral, negative).

This challenge consists in two parts:

- Home Challenge (~2 hours preparation)
- Live coding challenge (30-45 mins assignment + 15 mins discussion)

Take Home Assignment (~ 2 hrs)

Basic Requirements

1. Frontend:
 - a. Use HTML, CSS, and JavaScript to create a user-friendly interface
 - b. You could use any framework like React, Vue or Angular
 - c. Implement a text input field where users can submit text for analysis
 - d. Display the mock analysis result of the submitted text.
2. Backend:
 - a. Simulate an API call that does the analysis of the text.
3. Integration:
 - a. Connect the frontend and backend so that the text input by the user is sent to the backend and the analysis result is displayed on the frontend.

Advanced Requirements

4. Store input text and analysis insights in a file or DB.

5. Backend:

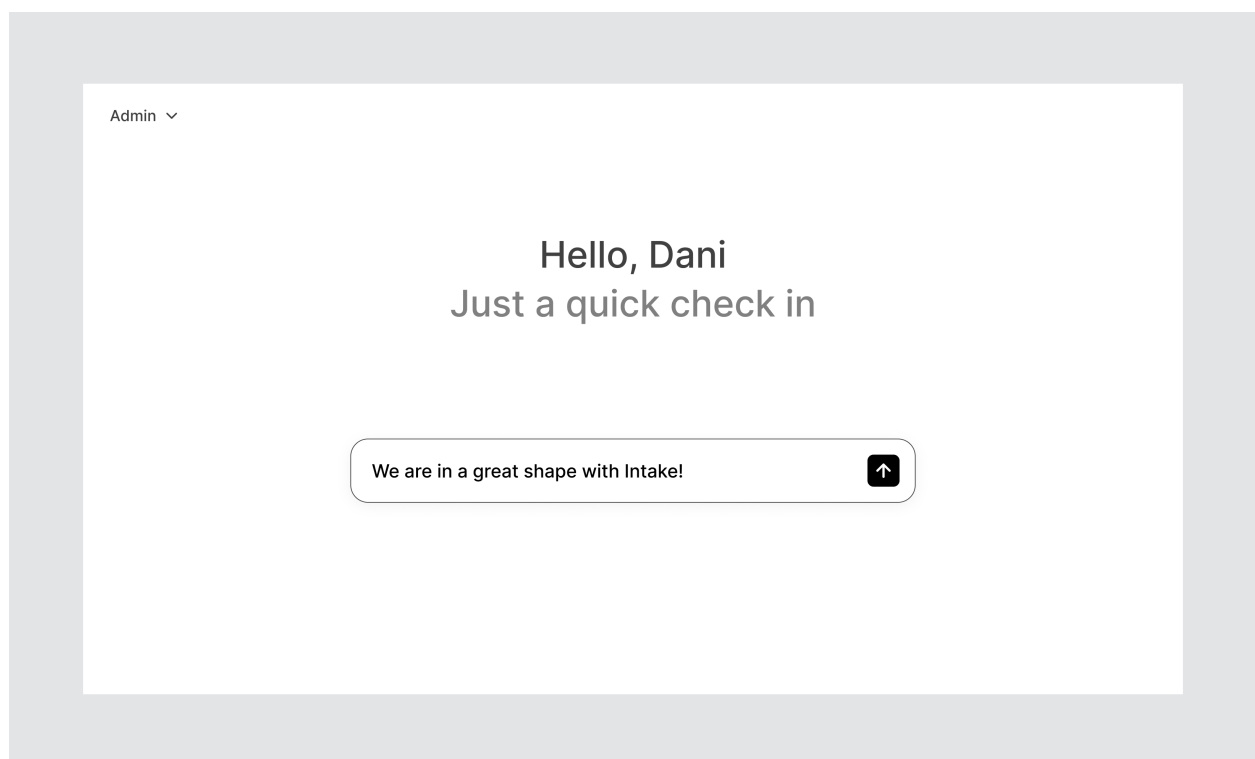
- a. If comfortable, set up a simple server using Node.js/Express or another simple framework/language.
- b. Create a basic API endpoint that receives text and returns a simulated sentiment analysis result (e.g., randomly select from "positive", "neutral", "negative").

Optional

6. Add unit tests to your code.

Source files

- Figma mock
<https://www.figma.com/file/yWvVEnynU0FGV8WMUtg4dm/Cynch--Take-Home-assignment>
- Icons <https://feathericons.com/>



Live coding challenge (30 to 45 mins)

During the interview, you will be asked to start your application, modify and extend your initial approach based on new requirements like the following:

1. UI Enhancements
2. Add a Feature
3. Debugging Task
4. Backend Task