Digital Form Builder Challenge

Overview

Your challenge is to create a prototype application that transforms paper health & safety forms into interactive digital versions. Care facilities currently use paper forms for regular safety checks, but this process is inefficient and makes issue tracking difficult.

The Challenge

Build a prototype that demonstrates how care staff could:

1. Upload and digitise a paper health & safety form (like the provided sample)
2. Edit the detected form template to customise it
3. Complete the form on a mobile device
4. Generate a maintenance report for all identified issues (its really helpful when staff capture photos of the the issues)

Time Expectation

We expect you to spend 4-8 hours on this challenge. Please focus on demonstrating your problem-solving approach rather than a complete implementation. A working prototype of one or two key features is better than an attempted implementation of everything.

Requirements

Technical Approach

- **Backend**: Python-based (framework of your choice)
- **AI Integration**: Use OpenAI for processing (API Key Provided below)
- **Frontend**: Mobile-responsive interface (technology of your choice, ideally React)

Core Features to Focus On

We're more interested in your approach and problem-solving than a hosted production-ready application.

Focus on demonstrating these key aspects:

1. **Form Recognition** - Show how you'd use AI to process and understand the structure of a paper form (or help users quickly convert their paper forms to digital)

2. **Template Editing** - Implement a way for users to customise the detected template (add sections, change questions, implement basic logic like photo capture)

3. **Mobile Experience** - Create a mobile-responsive interface for form completion, so their forms are fillable on a phone 'on-the-go'

Choose what to prioritise: You don't need to build all components fully. We recommend focusing on one or two areas where you can best demonstrate your skills.

Deliverables

1. Working prototype of your chosen functionality(ies)
2. Source code repository with basic documentation
3. Brief presentation (10-15 minutes) explaining your approach and demonstrating what you've built

Live Discussion

Be prepared for a follow-up live session where you'll:

- Walk through your solution and explain your technical decisions
- Make some real-time modifications or extensions to your code
- Discuss alternative approaches you considered

Timeline

We understand everyone works at different paces and there is limited time to complete this. We value creativity and thoughtful implementation over completeness.

Evaluation Criteria

Your solution will be evaluated based on:

- Technical approach and problem-solving creativity
- User experience considerations
- Effective use of AI for form processing (if this feature is developed)
- How you handled constraints and made design decisions
- Ability to rapidly prototype functional solutions

Good luck! We're excited to see your approach. Remember that we're looking for your ability to solve problems creatively rather than a complete implementation. It's perfectly acceptable to focus on a partial solution that demonstrates your technical thinking and skills.

Health and Safety Inspection Form

Richmond Lodge Care Facility

Completed by:	Location:	Date:	Time:

Staff Sleep Rooms (Visual Condition)

Area/Location	YES	NO	Comment/Action
Is the furniture in a good state of repair?	○	○	
Are sockets overloaded?	○	○	
Are there any loose or trailing wires/cables?	○	○	
Are lights and fittings in a good state of repair?	○	○	
Is the carpet flat to floor?	○	○	
Are there any trip hazards?	○	○	

Lounge (Visual Condition)

Area/Location	YES	NO	Comment/Action
Is the furniture in a good state of repair?	○	○	
Are sockets overloaded?	○	○	
Are there any loose or trailing wires/cables?	○	○	
Are lights and fittings in a good state of repair?	○	○	
Is the carpet flat to floor?	○	○	
Are there any trip hazards?	○	○	

Other Items

	YES	NO	
Other (Specify): Window security	○	○	
Other (Specify): Fire exits clear	○	○	

Any brief comments:

Signed: _____ Role: _____ Date: _____

Urgent requests must be reported immediately, and practical measures must be taken to ensure the area or location is safe.