Software Engineer - Coding Exercise

Overview

Create a **production-ready** one-page web application where users input parameters to retrieve **Al-generated information**. The app should support at least **one of the following functionalities**:

- Calorie Information Users input a meal or ingredients to get an Al-estimated calorie breakdown.
- **Text Translation** Users input text in one language and get an Al-generated translation.
- **PDF Summarisation** Users upload a PDF, and the app generates a concise AI-powered summary.

You are free to use any programming language, third-party tools, and Al services, but Elixir is preferred for the backend and React for the frontend. The focus is on code quality, architecture, scalability, security, and persistence.

Key Requirements

1. Implementation

- API based backend, in the language of your choice (Elixir or Ruby Preferred).
- Process data and generate results using a large language Al model.
- The frontend app should be a **single-page application (SPA)**, with a clean and user-friendly interface.

3. Product Requirements

- User authentication & persistence
- Ability for the user to provide customisation to get the information they desire.
 The search result should be AI generated.

• Bonus: Any additional features you may believe could benefit the user.

Submission Requirements:

- Provide a GitHub (or other repo) link with the code.
- You are free to use any third party tools or services that will help you achieve
 the result faster. We are not looking to use a lot of your time (ideally under 4
 hours), but only to see how you think and approach problems.
- If you have any questions about the exercise, please send them to Eran Peer (eran.peer@neotalent.net), with info@neotalent.net in CC.