Subject: Technical Assessment Project - Software Engineering Position

Dear Candidate,

Thank you for your interest in the Software Engineer position at [Company Name]. We've reviewed your application and would like to proceed with our technical assessment phase.

We believe in evaluating candidates through practical, real-world scenarios. Here's your project challenge:

Project: Smart Recipe Generator is an application that suggests recipes based on available ingredients photos.

Required Features:

1. User Input:

- Allow users to input available ingredients (text input or selecting from a list).
- Option to specify dietary preferences (e.g., vegetarian, gluten-free).

2. Recipe Generation:

- Generate recipes based on the provided ingredients.
- Suggest multiple recipes with detailed instructions.
- Include nutritional information (e.g., calories, protein).

3. Filters and Customization:

- Filter recipes by difficulty, cooking time, or dietary restrictions.
- Option to adjust serving sizes.

4. Recipe Database:

- Predefined recipe database with a variety of cuisines.
- Each recipe should include ingredients, steps, and nutritional info.

5. User Feedback:

- Allow users to rate and save their favorite recipes.
- Provide a "recipe suggestions" feature based on user ratings and preferences.

6. UI/UX:

- Clean, intuitive interface for easy navigation.
- Mobile-responsive design.

7. Hosting:

- Deploy on a free hosting service (e.g., Netlify, Vercel, Heroku).

Required Features:

- Ingredient recognition from images
- Recipe matching algorithm
- Substitution suggestions
- Dietary restrictions handling
- Product database:
    - Minimum 20 recipes
- Hosting: Live deployment on any free hosting service
- Mobile responsive design
- Evaluation criteria:
    - Ingredient classification approach
    - Recipe matching Logic
    - Error handling
    - User experience considerations

Technical Requirements:

- Clean, production-quality code
- Basic error handling
- Loading states for better UX
- Simple documentation explaining your approach

Technical Freedom:

- Use any frameworks/technologies you're comfortable with
- Free to use AI/ML services (any free tier)
- Collect test data from public sources

Deliverables:

1. Working application URL
2. GitHub repository with source code and README
3. Brief write-up of your approach (200 words max)

Timeline:

- Project deadline: 1st sep 2025

- Time investment: Maximum 8 hours

We'll evaluate based on:

- Problem-solving approach
- Code quality
- Working functionality
- Documentation

Next Steps:

1. Confirm receipt of this email
2. Submit your GitHub repository link and hosted application URL by the deadline
3. We'll review and respond within 3 business days

Questions? Feel free to ask. Good luck!

Best regards, [Your Name] [Company Name]