

# Business Requirement Document (BRD) for cookGPT Project

## Project Overview:

Project Name: cookGPT - AI-Powered Indian Cooking Assistant

Project Owner: [Vishal Mysore]

Version: 1.0

Date: [Date]

## Executive Summary:

cookGPT is an innovative artificial intelligence project aimed at creating an advanced language model specifically tailored for Indian cooking. The primary goal of cookGPT is to assist users in generating high-quality recipes, providing cooking tips, and offering

personalized culinary suggestions. Leveraging state-of-the-art natural language processing, the project seeks to enhance the user's cooking experience by delivering accurate, creative, and contextually relevant content.

## **Objectives:**

Develop an AI model capable of understanding and generating Indian cooking recipes.

Enable users to receive personalized recipe recommendations based on preferences, dietary restrictions, and cultural considerations.

Enhance the user interface for an intuitive and engaging user experience.

Implement robust error handling and validation mechanisms to ensure reliable outputs.

Explore opportunities for future integration with smart kitchen devices and platforms.

## **Features:**

### **1. Recipe Generation:**

- Description: Enable users to request recipe suggestions for specific dishes or ingredients.
- Requirements:
  - The model should generate clear and concise step-by-step recipes.
  - Support for various Indian cuisines and regional specialties.

### **2. Personalization:**

- Description: Tailor recipe recommendations based on user preferences.
- Requirements:
  - User profiles with preferences, dietary restrictions, and favorite ingredients.
  - Dynamic adjustments to recommendations based on user feedback.

### **3. User Interface:**

- Description: Design an intuitive and user-friendly interface.
- Requirements:

- Responsive web application accessible from desktop and mobile devices.
- Integrate visually appealing graphics and images for recipes.

## **4. Error Handling:**

- Description: Implement robust error detection and correction mechanisms.
- Requirements:
  - Identify and handle ambiguous or unclear user inputs gracefully.
  - Provide informative error messages for user guidance.

## **5. Integration:**

- Description: Explore integration possibilities with external platforms and devices.
- Requirements:
  - Investigate potential collaborations with smart kitchen appliances or voice-activated assistants.
  - Ensure compatibility with popular recipe-sharing platforms.

## **Assumptions and Constraints:**

- Assumption: Users will have basic internet connectivity for accessing recipe recommendations.
- Constraint: The initial version will focus on vegetarian recipes; future updates may include non-vegetarian options.

## **Risks and Mitigation:**

- Risk: Model may generate inaccurate or unsafe cooking instructions.
  - Mitigation: Implement a thorough validation process with human review for critical safety aspects.
- Risk: User preferences may vary significantly, impacting the effectiveness of personalization.
  - Mitigation: Regularly update the model with diverse user feedback to improve personalization accuracy.

## **Success Criteria:**

- Positive user feedback and engagement metrics.
- High accuracy in recipe generation and personalization.

- Successful integration with external platforms.

## **Stakeholders:**

- Project Owner
- Development Team
- QA Team
- Marketing Team
- End Users

## **Approval:**

Project Owner:  
[Your Name]

Date:

[Date]