**Hackathon Project Phases Template** that ensures students can complete it efficiently while covering all six phases. The template is structured to capture essential information without being time-consuming.

Hackathon Project Phases Template

# Project Title:

FLAVOUR FUSION : AI-DRIVEN RECIPE BLOGGING

# Team Name:

BUG BUSTER

# Team Members:

* AKANTI HETHIKA
* CH.NIKITHA REDDY
* YASMEEN DUDEKULA
* KANDHURI GAYATHRI
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# Phase-1: Brainstorming & Ideation

## Objective:

* Identify the problem statement.
* Define the purpose and impact of the project.

## Key Points:

1. **Problem Statement:**

Flavour Fusion: Al-Driven Recipe Blogging is a web application that leverages Google's Generative Al to create unique and customized recipe blogs the app provides users with the ability to input a topic and specify the desired word count for their recipe blog Using the specified parameters, the Al generates detailed and engaging recipe content Additionally, the app includes a fun feature where it tells a programmer joke to entertain users while the Al is generating the content.

1. **Proposed Solution:**

The proposed program is dedicated to use Google's gen AI or Open AI GPT API to generate custom food blogs on user input of specific characters such are recipes and the desired word count.

The working of the code is divided into two parts I.e front end and back end where in front end we are using index.html and index.html1, in backend we are using app.py and app.js as main files. We are also a adding a css style sheet for deign.

1. **Target Users:**

Who will benefit from this project?

**1. Food Bloggers & Writers** – For quick, AI-generated food blogs.

**2. Home Cooks & Food Enthusiasts** – To document and share recipes.

**3. Restaurant Owners & Chefs** – For promoting dishes and techniques.

**4. Content Creators & Influencers** – To support social media content.

**5. Dietitians & Nutritionists** – For healthy eating and meal plans.

**6. SEO & Digital Marketers** – To generate SEO-friendly food content.

**7. Students & Researchers** – For culinary projects and research.

1. **Expected outcomes:**

what will the project achieve?

* Automated and customizable food blogs
* User-friendly and time-saving solution
* SEO-optimized content for better reach
* Enhanced engagement for food enthusiasts
* Scalable for future features

# Phase-2: Requirement Analysis

## Objective:

* + Define technical and functional requirements.

## Key Points:

1. **Technical Requirements:** (python, html, node.js, Java Script, CSS, HTML)
2. **Functional Requirements:** (Gen AI Integration, Exceptional Handling)
3. **Constraints & Challenges:** (Word Count below 100 will not be generated)

# Phase-3: Project Design

## 

## OBJECTIVE:

* + Create the architecture and user flow.

## Key Points:

1. **User Flow:**

* We are using a NodeJs API frontend along with python and Java Script
* The code layout is rather simple having two main folders in the directory which are named as front end and backend,
* The Front end folder had two files which are index.html and index.html1
* The backend folder has 3 files which are app.js app.py and css.stylesheet

1. **UI/UX Considerations:**

* There is no UI UX considerations as we are using css to style the frontend

# Phase-4: Project Planning (Agile Methodologies)

## Objective:

* + Break down the tasks using Agile methodologies.

## Key Points:

1. **Sprint Planning:** (Divide work into tasks for each team member)
2. **Task Allocation:** (Who will do what?)
3. **Timeline & Milestones:** (Set short deadlines for each task)

# Phase-5: Project Development

## Objective:

* + Code the project and integrate components.

## Key Points:

1. **Technology Stack Used:** (programming languages used: Python, Java Script, Nodejs, Reactjs, Html, CSS; API’s used: Open ai Chat GPT API generated along with the key and has been used in the app.py file in the backend folder
2. **Development Process:** (Simple coding steps: first prepare backend server and intergrate API using Open ai and Reactjs; prepare front end using custom CSS and Javascript file.)
3. **Challenges & Fixes:**

* A lot of obstacles were seen during the development phase such as exception handling,
* Server request timeout
* Server not active
* Npl commands not working as the code editor VSCode does not allow to overrite Script

# Phase-6: Functional & Performance Testing

## Objective:

* + Ensure the project works as expected.

## Key Points:

1. **Test Cases Executed:** (backend server, ttl timeout time, server response time and all were tested)
2. **Bug Fixes & Improvements:** (word limit fixed: >100 and < 2500)
3. **Final Validation:** (The project is completed successfully and has been extensively tested for bus and minor fixes)
4. **Deployment (if applicable):** (Hosting done manually)