Project Initiation Document (PID)

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| Project Name: | Get food recipe based on the recipe name like it will display ingredients and process |
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# Introduction

The Food Recipe Application is a digital platform that aims to provide users with a convenient and user-friendly way to discover of their recipes by using our application. In today's fast-paced world, people often struggle to find the time and resources to prepare nutritious and delicious meals. This application aims to bridge that gap by offering an extensive collection of recipes from various cuisines, along with features that make cooking more accessible and enjoyable.

# problem statement

Many people struggle to find a wide variety of recipes that suit their tastes and dietary needs. They also face challenges in managing their time and finding quick and easy recipes. Organizing and saving recipes can be difficult and inconvenient. Existing platforms often fail to provide personalized recommendations based on individual preferences.

# proposed solution

By considering the above problems we develop the application. That is designed to provide users with a wide range of recipes and process of how to cook by entering the recipe name. These apps are typically available on smartphones, laptops, and other devices and interactive way for people to explore and prepare various dishes.

# Project objectivies

**Provide a Variety of Recipes**: Offer a diverse collection of recipes from food recipe API to a wide range of user tastes and needs.

**User-Friendly Experience**: Create an easy-to-use interface that allows even users with limited technical skills to navigate the application and find recipes effortlessly.

# Project Scope

The scope of the project includes the development of a food recipe application that serves the process of making a recipe using Food Recipe API. The service will allow users to know the actual ingredients and also know the what’s the process behind to make it based on name of the recipe inputs. The platform will provide ingredients and process.The project will ensure a user-friendly interface, optimized performance, and data security. Comprehensive documentation and support resources will be provided to assist users in effectively utilizing the platform.

# project exclusions

Detailed Weather Analysis: The project will not include in-depth weather analysis or forecasting algorithms. The focus is on retrieving and presenting temperature data rather than generating complex weather predictions.

Physical Weather Stations: The project will rely solely on the data provided by the Open Weather API and will not involve the installation or management of physical weather stations.

# Key stakeholders

**Users**: The primary stakeholders of the project are the individuals or businesses who will be using the platform to retrieve ingredients and process of making the particular recipe based on the name as input. Users will rely on the service to plan their activities like parties and stay updated on the new recipe making skills.

**Development Team**: The development team consists of software engineers, designers, and other technical professionals responsible for designing, developing, and maintaining the platform. They play a crucial role in implementing the functionality, user interface, and integration with the Food Recipe API

**Project Managers**: Project managers oversee the entire project, ensuring that it stays on track, meets the defined objectives, and is delivered within the allocated resources and timeframes. They coordinate the efforts of the development team, handle communication with stakeholders, and manage project risks and dependencies.

**Quality Assurance/Testers**: Quality assurance professionals and testers ensure the platform's functionality, usability, and reliability by conducting testing and identifying any issues or bugs. They play a vital role in delivering a high-quality product that meets user expectations.

# project deliverablies

**User-friendly web-based platform**: A fully functional and intuitive web-based platform where users can enter recipe name as input to know the process and ingredients of that particular recipe.

**Process and Ingredients of Recipe**: The platform will provide users with accurate and ingredients and process data specific to the name entered.

# project team

The project team will consist of the following roles:

Project Manager: Responsible for overall project coordination, communication, and timely

# project plain and timelines

The estimated timeline for completing this project is as follows:

Phase 1: Requirements Gathering and Design

Duration: 2 weeks

Phase 2: Development and Integration

Duration: 4 weeks

Phase 3: Testing and Quality Assurance

Duration: 2 weeks

Phase 4: Documentation and Deployment

Duration: 1 week

# Resources

Development Team:

Software engineers

Web developers

Front-end developers

Back-end developers

User interface designers

Project Manager: Responsible for overseeing the project, coordinating resources, managing timelines, and ensuring successful project completion.

Food Recipe API: The API provider that offers ingredients and process based on the name of the recipe. Access to the API and documentation is crucial for integrating and retrieving recipe information.

Hardware and Software:

Development computers or laptops with appropriate specifications

Development and production servers for hosting the platform

Development tools and software such as integrated development environments (IDEs), code editors, and version control systems

Web development frameworks and libraries (e.g., JavaScript frameworks, CSS preprocessors)

Development tools, frameworks, and libraries as per the team's requirements.

# User Interface

# Test plan and test cases

**Test Scope and Objectives**:

Clearly define the scope of testing and the objectives to be achieved. Specify the exact functionalities that will be tested and the platforms or devices on which the testing will be performed.

**Test Environment:**

Describe the environment in which the tests will be conducted. This includes the operating systems, browsers, or mobile devices to be used for testing.

**Test Data:**

Identify the test data required for the test scenarios. This may include specific pin codes or location coordinates and the corresponding expected temperature data.

**Test Scenarios**:

Define various test scenarios that cover different use cases and potential user interactions. Some examples include:

Entering a valid name and obtaining the correct information.

Entering an invalid or unsupported name and verifying the system handles it appropriately (e.g., error message).

Testing the system's response time for different names.

**Functional Testing:**

Execute functional tests to ensure the system works as expected. This involves validating that the process information is accurate and corresponds to the specific recipe name.

# Quality assurance

**Functional Testing:**

* Conduct functional testing to verify the correct functioning of the Food Recipe service.
* Validate the accuracy of information retrieved from the Food Recipe API for specific name input.
* Verify the display of current information and its alignment with the user's expectations.

**Usability Testing**:

* Evaluate the user interface design for ease of use, intuitiveness, and accessibility.
* Conduct usability tests with representative users to gather feedback on the user experience.
* Ensure that users can easily enter name input and retrieve the corresponding process information about that recipe.

**Security Testing:**

* Identify potential security vulnerabilities and conduct security testing to ensure the confidentiality, integrity, and availability of user data.
* Test authentication and authorization mechanisms to prevent unauthorized access.
* Verify that user inputs are properly validated to mitigate risks such as SQL injection or cross-site scripting.

**Compatibility Testing:**

* Test the platform across different web browsers, operating systems, and devices to ensure consistent behavior and usability.
* Validate the responsiveness and adaptability of the user interface to different screen sizes and resolutions.

**Regression Testing:**

* Perform regression testing to ensure that new features or bug fixes do not introduce new issues or impact existing functionality.
* Revalidate previously tested areas to confirm that they still function correctly.

**User Acceptance Testing (UAT):**

* Engage users or user representatives to participate in UAT to validate the platform's usability and functionality.
* Gather feedback from users and address any identified issues or suggestions.

# Deployment

**Pre-Deployment Preparation:**

* Finalize the production environment infrastructure, including hosting, servers, and domain configuration.
* Ensure that the necessary hardware, software, and network resources are available and properly configured.
* Verify that the required dependencies and libraries are installed on the production environment.

**Deployment Package Preparation:**

* Create a deployment package that includes all the necessary files, code, and configurations required for the application to run.
* Perform a final code review and ensure that all necessary files are included in the package.
* Create a version control tag or branch for the deployment package to track the deployed code.

**Deployment Execution:**

* Transfer the deployment package to the production environment.
* Execute deployment scripts or commands to deploy the application code and assets to the production server.
* Monitor the deployment process to ensure it completes successfully without any errors or interruptions.
* Verify that the deployed application is accessible and functioning as expected.

**Monitoring and Logging Setup:**

* Set up monitoring tools and configure performance monitoring, error tracking, and logging mechanisms.
* Monitor key metrics such as response time, resource utilization, and error rates to ensure the application's health and performance.
* Configure alerts and notifications to proactively detect and address any issues or anomalies.

**Post-Deployment Tasks:**

* Conduct post-deployment testing and validation to ensure the stability and correctness of the deployed application.
* Coordinate with the support and maintenance team to transition the application into their responsibility for ongoing support and maintenance.
* Update documentation and knowledge base with any specific deployment instructions or troubleshooting tips.