

Project Proposal: Recipe Management System

Team Members:

Pogaku Sunil Kumar

Ragiri Gouthami

Swetha Naga Sai Chirumamilla

What Are We Planning to Build?

We are creating a web application called the Recipe Management System. This system will help users organize and manage their favourite recipes. Users will be able to:

1. Add new recipes with their name, type of cuisine, and list of ingredients.
2. View all their saved recipes in one place.
3. Edit or delete recipes when needed.

Why Is this Project Useful or Interesting?

For Cooking Enthusiasts: People can easily keep track of their favourite recipes and ingredients without having to remember everything.

For Beginners: New cooks can organize and simplify their cooking by listing ingredients clearly.

For Everyone: It's a hassle-free way to store and access recipes anytime, anywhere.

What's Unique About This Project:

- We will use **MongoDB Atlas** (a cloud database for accessing recipes online).
- This ensures the recipes are safe and accessible, even if the device is lost.
- **Interactive and Simple:**
The application is user-friendly, allowing users to navigate easily and manage their recipes without any technical knowledge.

What Will Each Team Member Do?

1. Ragiri Gouthami (**Database Developer**):
 - Set up and design the database in SQLite and MongoDB Atlas.
 - Ensure data is saved, retrieved, and updated correctly.
2. Pogaku Sunil Kumar (**Backend Developer**):
 - Build the logic to connect the application to the databases.
 - Create the features to add, edit, and delete recipes.
3. Swetha Naga Sai Chirumamilla (**Frontend Developer**):
 - Design a simple, user-friendly web interface (forms and lists).
 - Ensure the application looks good on both mobile and desktop devices.

How Will We Know We're Successful?

1. **All Features Work:**
 - Users can add, edit, delete, and view recipes.
 - Ingredients are displayed clearly with their quantities.
2. **Data is Safe:**
 - Recipes are stored in the cloud (MongoDB Atlas).
3. **It's Easy to Use:**
 - The application is simple to navigate and understand, even for non-technical users.
4. **We Demonstrate It Successfully:**
 - During the final presentation, we'll show all the features working live.

Criteria for Done: Recipe Management System:

The project will be considered complete when the following are achieved:

1. **Core Features Work:**
 - Users can add, view, edit, and delete recipes along with their ingredients (name and quantity).
2. **Database Integration:**

- Recipes are stored and retrieved correctly using **SQLite** (local) and **MongoDB Atlas** (cloud).

3. User Interface:

- The web interface is simple, intuitive, and responsive, working well on both desktop.

4. Performance:

- CRUD operations (Create, Read, Update, Delete) are completed smoothly and without errors.

5. Cloud Functionality:

- MongoDB Atlas is successfully set up, and the app interacts with the cloud database seamlessly.

6. Presentation and Usability:

- The system is demonstrated live, showing all functionalities work as intended.
- Clear error messages are displayed for invalid inputs, ensuring user-friendliness.

7. Documentation:

- A README file provides step-by-step instructions for running the application and understanding its features.

8. Bug-Free:

- The application has no major bugs or issues that disrupt its functionality.

This ensures the application is functional, easy to use, and ready for real-world use.