Project:

Recipe and Meal Planning App

Students:

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Project Summary

The Recipe and Meal Planning App takes a user-centric approach to optimize culinary management. On the home screen, users find instant inspiration through featured recipes, a user-friendly search bar, and accessible buttons for smooth navigation. Exploring a diverse array of recipes categorized by meal types and applying dietary filters is made simple on the Explore screen. Going into the Recipe Details screen, users access comprehensive information, including ingredients and step-by-step instructions. This screen facilitates saving favorite recipes and adding them to a personalized Meal Planner. The My Recipes screen serves as a convenient hub for organizing saved favorites, while the Meal Planner screen offers a visual calendar for efficient meal planning and automatic generation of a grocery list.

The app's iterative design places emphasis on functionality, responsiveness, and user experience. Valuable user feedback is actively incorporated to refine the app, ensuring ongoing intuitiveness and efficiency. With an aesthetically pleasing interface and optimization catering to diverse screen sizes, the Recipe and Meal Planning App is created to enhance the culinary journey for users.

1. Wireframe:

- **Visual structure of the app.**

Home Screen:

- Featured recipes
- Search bar
- Quick access buttons

Explore Screen:

- Categories

- Dietary filters

- List of recipes with images and names

Recipe Details Screen:

- Recipe image

- Ingredients list

- Instructions

- Save to Favorites button

- Add to Meal Planner button

- Back to Explore button

My Recipes Screen:

- User's saved/favorite recipes

- Search and filter options

Meal Planner Screen:

- Calendar view

- Add meals to specific days

- Generate grocery list button

- Back to Home button

Grocery List Screen:

- List of ingredients from selected recipes

- Mark as purchased option

- Clear all items button

2. Layouts:

- Home Screen

- Explore Screen

- Recipe Details Screen

- My Recipes Screen

- Meal Planner Screen

- Grocery List Screen

3. Functionality:

- Transition from Home to Explore for recipe discovery.

- Navigate from Explore to Recipe Details for detailed information.

- Save recipes to My Recipes for easy access.

- Plan meals by adding recipes to the Meal Planner.

- Generate a grocery list from the Meal Planner.

4. User Experience:

- **Home Screen:** Quick access to key features.

- **Explore Screen:** Easy recipe discovery with filters.

- **Recipe Details Screen:** Detailed information and instructions.

- **My Recipes Screen:** Convenient access to saved favorites.

- **Meal Planner Screen:** Efficient meal planning with a calendar view.

- **Grocery List Screen:** Simplified shopping with a generated list.

5. Iterative Design:

- **Test Cases:**

  - Verify the functionality of each screen.

  - Test the responsiveness of the function's elements.

- **Refine Improvements:**

  - Gather user feedback on the app

  - Implement improvements based on user feedback.

  - Keep the design user-centric and iterate based on real user feedback to create an intuitive and efficient Recipe and Meal Planning App.

6. GitHub Repository:

https://github.com/BlakeCaraballo/Recipe

7. Statement

We, the undersigned members of the group, acknowledge that we understand the conditions set forth in this proposal. We are committed to actively participating in the implementation of the

group project from start to finish. We understand that individual grades may vary based on our contributions and performance, and we agree to present an important phase of the work collectively.

Signed proposal:

Name: FN_____BLAKE_____ LN_____CARABALLO_____ [ ].

Name: FN_____DAIANE_____ LN_____GOMES_____ [ ].

This proposal delineates our strategy for crafting an engaging interactive website, emphasizing the utilization of Flutter to orchestrate captivating user experiences. We contend that this initiative resonates deeply with the core tenets of the Flutter framework, particularly its focus on seamless UI development, widget-based architecture, and expressive animations. By harnessing Flutter's robust capabilities, including its rich widget library, reactive framework, and hot reload feature, we aim to deliver an immersive digital platform that seamlessly integrates visually stunning designs with fluid user interactions. We are enthusiastic about the prospects of this endeavor and are eager to embark on this journey to materialize our vision.