



# RECIPE MEAL PLANNER

A Flutter-based app for easy meal planning and recipe management.

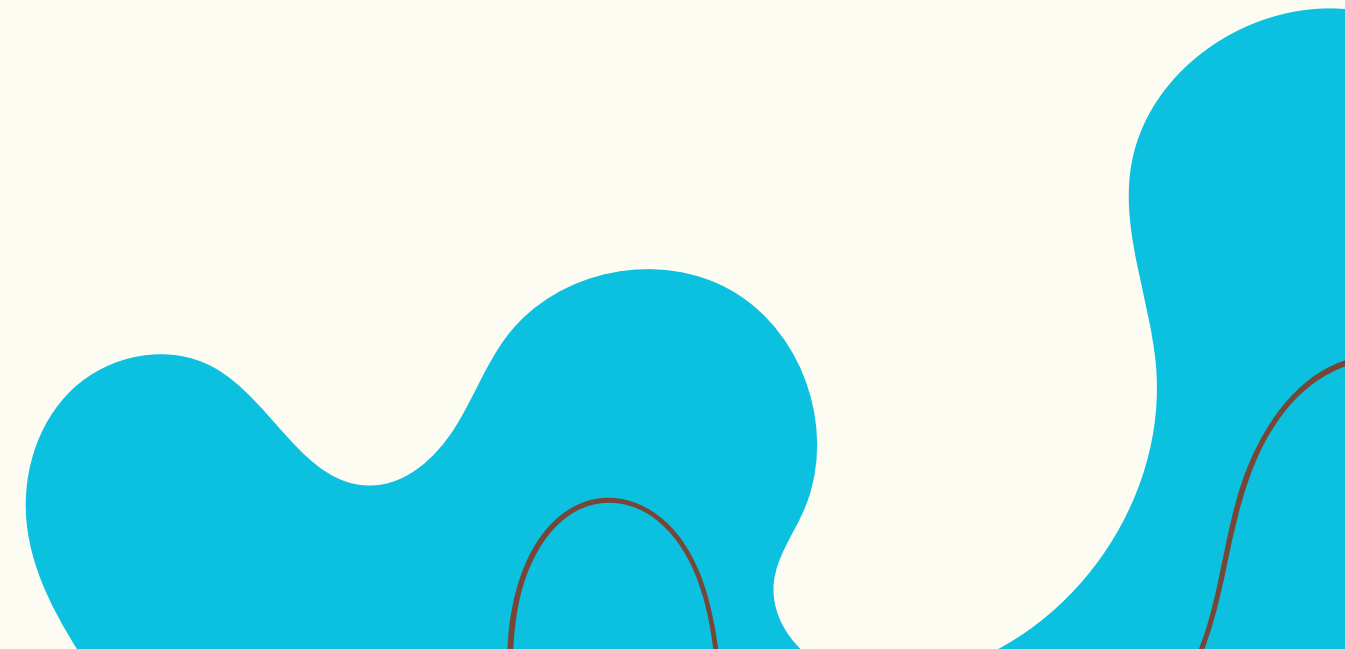
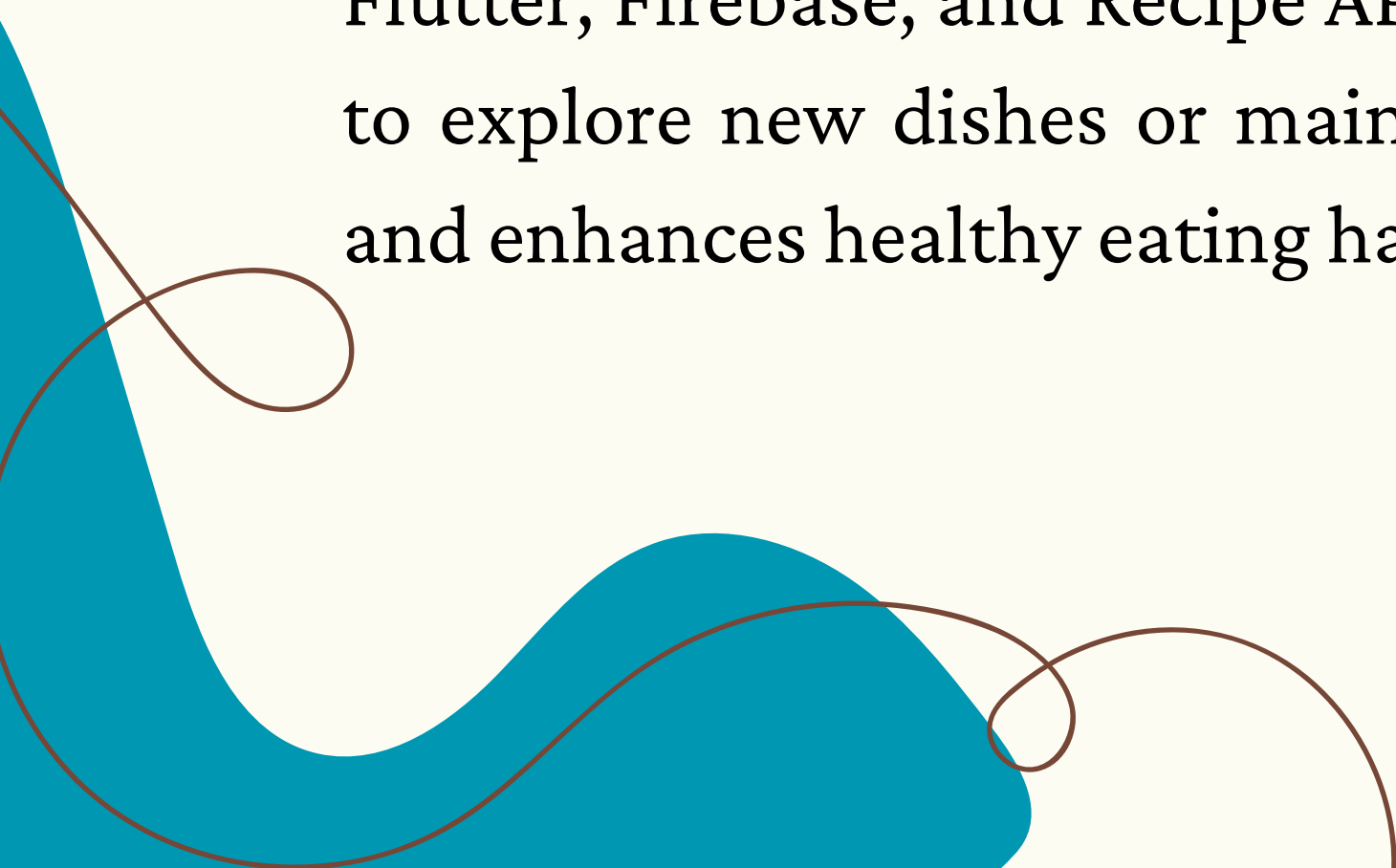
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# INTRODUCTION

The Recipe Meal Planner app is a smart and user-friendly solution for efficient meal planning. It allows users to search for recipes, plan weekly meals, get suggestions for the day, add favorites, mark the cooked and generate shopping list. With seamless integration of Flutter, Firebase, and Recipe APIs, the app ensures a smooth experience. Whether users want to explore new dishes or maintain a structured diet, this app simplifies meal organization and enhances healthy eating habits.



# PROBLEM STATEMENT

Meal planning can be a time-consuming and disorganized process, making it difficult for users to maintain a balanced diet. Common challenges include:

- Lack of structured meal organization – Users struggle to plan meals efficiently.
- Difficulty in discovering recipes – Finding diverse and nutritious recipes can be overwhelming.
- Manual shopping list preparation – Users spend extra time listing ingredients for meals.
- No dietary tracking – Lack of personalized meal recommendations based on dietary preferences.

This app aims to solve these issues by providing an automated and intuitive meal planning experience.

# PROPOSED SOLUTION

The Recipe Meal Planner app offers a smart and efficient way to manage meals by integrating recipe discovery, meal planning, and shopping list generation into a single platform.

- Easy Recipe Search – Users can explore a variety of recipes based on preferences.
- Suggestions for the day – Provides suggestions to make user's task easier.
- Shopping List Automation – Generate shopping lists.
- User-Friendly Interface – Simplifies meal management with an intuitive design.


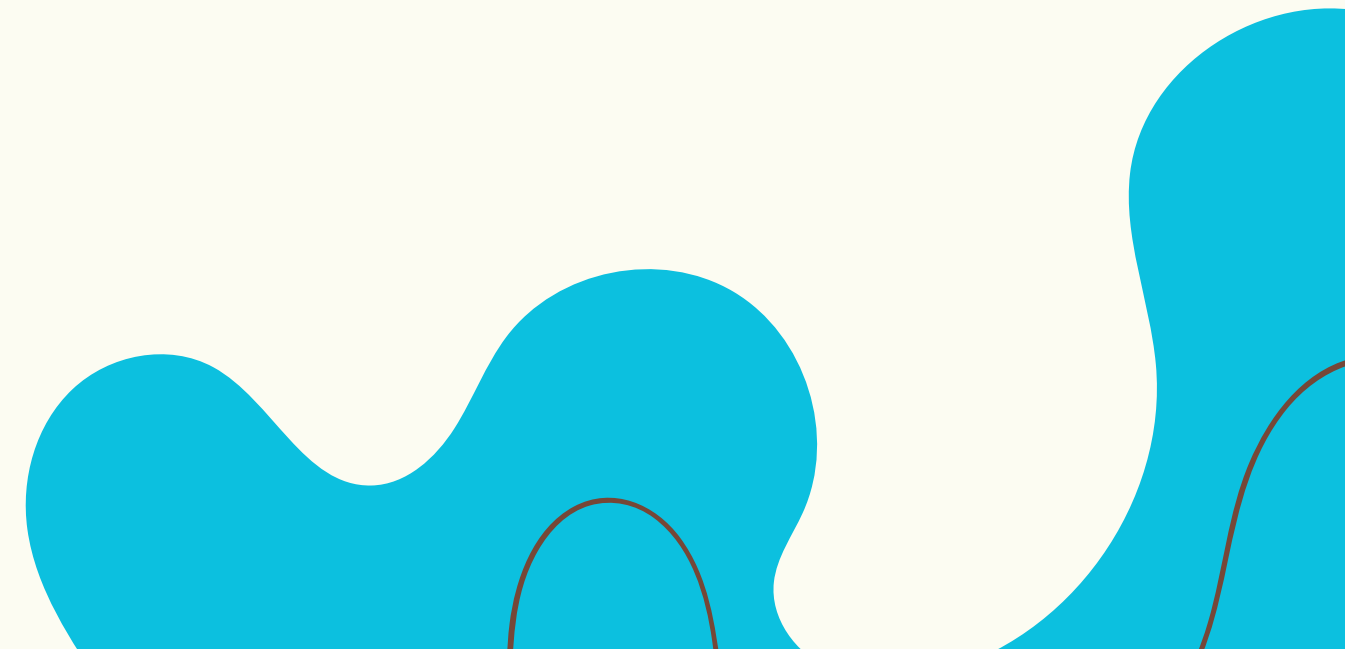
This solution saves time, promotes healthy eating, and enhances meal organization.

# TECH STACK USED

- **Flutter** – Used for building a cross-platform mobile application that runs seamlessly on both Android and iOS.
- **Firestore** – A cloud database used to store users' saved questions. It allows users to access their important questions anytime and from any device.
- **JSON Localization** – Implemented to support multiple languages. By storing translations in JSON files, users can switch between languages easily



# APP FEATURES & WORKFLOW

- ✓ Recipe Search – Find recipes based on ingredients & preferences.
  - ✓ Meal Planning – Schedule meals for the week.
  - ✓ Save Favorites – Store frequently used recipes.
  - ✓ Mark as Cooked – Mark any recipe as Cooked
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# CONCLUSION

In this project, we successfully built a Flutter application that incorporates essential concepts and features that are fundamental to creating interactive and visually appealing apps. The application includes:

1. **Widgets:** Various types of widgets were used to build the app's UI, ensuring reusability and maintainability.
2. **Stateless and Stateful Widgets:** These were employed to manage UI changes and application state effectively.
3. **Styling and Theming:** The app's design was enhanced through consistent styling and theming to maintain a cohesive visual appeal.
4. **Layouts and Views:** A responsive layout was created to adapt to various screen sizes and orientations, offering an intuitive user experience.
5. **API Calling:** The app utilizes public APIs to fetch data, ensuring dynamic content and real-time updates.
6. **Database:** A local database was integrated to store user preferences and data persistently.
7. **Firestore Integration:** Firestore was used for real-time data synchronization and user authentication, ensuring scalability and security.
8. **Localization:** The app supports multiple languages, making it accessible to a wider audience.

The background is a light cream color. It features several abstract, organic shapes in a vibrant teal color. These shapes are scattered around the edges of the frame. Interspersed among these shapes are thin, elegant, brown wavy lines that flow across the background, adding a sense of movement and grace to the overall design.

THANK  
YOU