Yum Yum - Recipe App

A Flutter-Based Recipe Application

Explore Yum Yum, a user-friendly recipe app, designed to help you discover, save, and manage your favorite recipes. Built using Flutter and Firebase, Yum Yum ensures a smooth and real-time experience.

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Key Features of Yum Yum

✓ **Flutter Framework**

Built entirely using Flutter for cross-platform compatibility.

✓ **Firebase Integration**

Real-time data synchronization using Firebase services.

✓ **Localization**

Supports multiple languages including English , Tamil and Hindi

✓ **User-Friendly UI**

Intuitive design with Material Design components.

Application Details

Core Technologies

- Flutter
- Firebase Firestore
- Material Design

Key Features

- User Authentication
- Favorite Recipes
- API Integration

Yum Yum combines Flutter's capabilities with Firebase's real-time data handling. It offers a user-friendly interface and localization.

Application Workflow

1

Welcome Page

First screen with language options.

2

Home Page

Access to explore recipes or view favorites.

3

Explore Recipes

Browse a wide variety of recipes.

4

View Favorites

Access saved recipes in Firebase Firestore.

The workflow allows users to easily explore new recipes and manage their favorites.

Localization Implementation

```
// Load localization files (en.json, ta.json)
class AppLocalizations {
  static Map<String, String> _localizedStrings;
  static Future load(Locale locale) async {
    String jsonString = await rootBundle.loadString('assets/lang/${locale.languageCode}.json');
    _localizedStrings = json.decode(jsonString).cast<String, String>();
  }
  static String translate(String key) {
    return _localizedStrings[key] ?? key;
  }
}
```

The localization code uses JSON files to support multiple languages. It loads the appropriate language file based on the user's locale.

Navigation Logic

```
// Welcome Page Navigation to Home Page
ElevatedButton(
  onPressed: () {
    Navigator.pushReplacement(
      context,
      MaterialPageRoute(builder: (context) => HomeScreen()),
    );
  },
  child: Text("Let's Dig In!"),
);
```

This code snippet demonstrates navigating from the welcome page to the home screen. The **Navigator.pushReplacement** method replaces the current route.

Firebase Firestore Integration

```
// Fetching user favorites from Firestore
Future<List<Recipe>> getUserFavorites(String userId) async {
  var snapshot = await FirebaseFirestore.instance.collection('favorites').where('userId',
isEqualTo: userId).get();
  return snapshot.docs.map((doc) => Recipe.fromJson(doc.data())).toList();
}
```

This snippet shows how to fetch user favorites from Firebase Firestore. It queries the 'favorites' collection based on the user ID.

Welcome Page UI Component

```
// Welcome Page Layout with Language Switcher
Column(
  children: [
    Text("Welcome to Yum Yum "),
    Row(
      mainAxisAlignment: MainAxisAlignment.center,
      children: [
        TextButton(onPressed: () => setLocale(Locale('en')), child: Text("English")),
        TextButton(onPressed: () => setLocale(Locale('ta')), child: Text("தமிழ்")),
        TextButton(onPressed: () => setLocale(Locale('ta')), child: Text("हिन्दी")),
      ],
    ),
  ],
);

This UI component creates the welcome page with a language switcher. It uses Column and Row widgets for layout and
TextButton for language selection.
```

Conclusion

Seamless Experience

Yum Yum offers a smooth and enjoyable experience for recipe lovers.

Advanced Filtering

Implemented advanced filtering and search capabilities.

Save Favorites

Provided a feature for users to save their favorite recipes for quick access.

Yum Yum simplifies recipe management and discovery Yum Yum provides an intuitive platform for exploring and saving recipes. With advanced filtering options and quick access to favorites, users can easily navigate the app for a seamless culinary experience.