

HOME REMEDIES APP

CREATED USING FLUTTER

INTRODUCTION

The Home Remedies App allows users to explore a collection of natural remedies, view detailed descriptions, and add their own remedies to a database. The app incorporates Flutter concepts such as stateful and stateless widgets, navigation, event handling, and database storage.

PROBLEM STATEMENT

Create a flutter application using the following concepts

1. Flutter App
2. Scaffold
3. Widgets (Stateful & Stateless)
4. Themes and Styling
5. Event Handling
6. Navigation and routing
7. Transferring Data
8. Layouts
9. Form Handling
10. Databases

APPLICATION OF CONCEPTS

1. Flutter App

- The app is built using Flutter, leveraging its widget-based framework for UI development.

2. Scaffold

- The main screens use Scaffold, including an AppBar, Body, and floating action buttons for navigation.

3. Widgets (Stateful & Stateless)

- StatelessWidget: Used for static UI components like the home screen displaying default remedies.
- StatefulWidget: Used for dynamic components such as adding a new remedy and updating the list.

4. Themes and Styling

- The app uses a consistent theme with custom colors, text styles, and button designs.
- Styles are managed globally using ThemeData.

5. Event Handling

- User interactions like button clicks, form submissions, and list item selections trigger events and update the UI dynamically.

6. Navigation and Routing

- Used Navigator.push() and Navigator.pop() for screen transitions between home, detail, and add-remedy screens.

7. Transferring Data

- Remedy details are passed between screens using constructors.
- Data is sent from the home screen to the details and form handling screens.

8. Layouts

- Implemented Column, Row, ListView, and GridView for organized content display.
- Used Padding, SizedBox, and Container for structured UI alignment.

9. Form Handling

- Used TextFormField for user input.
- Implemented validation and error messages for proper form submission.

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10. Databases

- Used SQLite for storing remedies.
- Integrated sqflite package to manage local data persistence.
- Enabled saving new remedies and retrieving them upon app restart

Used SQLite instead of firebase due to issues faced in connecting the database to the project .

APPLICATION WORKFLOW

1. Home Screen (List of Remedies)

- Displays default remedies (Title, Description, Image).
- Provides a floating action button to navigate to the Add Remedy screen.
- Allows clicking on remedies to view details.

2. Remedy Detail Screen

- Displays full information about the selected remedy.
- Includes an option to navigate back.

3. Add Remedy Screen

- Provides a form for users to enter a new remedy.
- Saves the remedy to the SQLite database upon submission.
- Updates the home screen dynamically.

CONCLUSION

The Home Remedies App effectively implements Flutter's core concepts, making it a well-structured and functional application. It showcases UI design, navigation, state management, and database integration