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## Experiment 02: To Design Flutter UI by Including Common Widgets

### Aim:

To implement a structured and responsive UI for the **Story Verse** app using fundamental Flutter widgets.

### Theory:

Flutter provides a rich set of widgets to build interactive UIs. The **Story Verse** app utilizes core widgets to create a seamless reading experience.

### Widgets Used & Their Roles:

Widget	Purpose
<b>MaterialApp</b>	Root widget that provides Material Design theming and navigation.
<b>Scaffold</b>	Base layout structure for all screens (AppBar, Body, FloatingActionButton).
<b>AppBar</b>	Displays the app title and navigation controls.
<b>Column</b>	Arranges widgets vertically (e.g., Welcome message + Book list).
<b>Row</b>	Aligns widgets horizontally (e.g., Book title + Rating + Edit button).

<b>ListView</b>	Scrollable list of books in the Library section.
<b>Card</b>	Displays book information in a visually appealing container.
<b>Text</b>	Renders all textual content (titles, descriptions, ratings).
<b>ElevatedButton</b>	Interactive buttons for actions like "Sign Up," "Edit Now," etc.
<b>Padding</b>	Ensures proper spacing between UI elements.

## Code Implementation (Home Screen):

```
class HomeScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text("Story Verse")),
      body: Column(
        children: [
          Text("Hello, mohit shadija", style: TextStyle(fontSize: 24)),
          Text("Start Reading.", style: TextStyle(fontSize: 18)),
          Expanded(
            child: ListView.builder(
              itemCount: books.length,
              itemBuilder: (context, index) {
                return Card(
                  child: Row(
                    children: [
                      Expanded(child: Text(books[index].title)),
                      Text("${books[index].rating} Stars"),
                      ElevatedButton(
                        onPressed: () => editBook(books[index]),
                        child: Text("Edit Now"),
                      ),
                    ],
                  ),
                ),
              ),
            );
          ),
          ElevatedButton(
            onPressed: () => Navigator.pushNamed(context, '/writer'),
            child: Text("Become a Writer"),
          ),
        ],
      ),
    );
  }
}
```

```
    ],  
    ),  
    );  
}  
}
```

## Output Screenshot:

