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Practical:3

Aim:

To include icons, images, and custom fonts in a Flutter application to enhance its visual appearance and user experience.

Theory:

Flutter allows developers to integrate various media assets such as icons, images, and fonts to create visually appealing applications. These assets can be added from local files or external sources.

- 1. Icons in Flutter:
 - Flutter provides built-in icons through the Icons class (Icons.home, Icons.settings, etc.).
 - Custom icons can be added using packages like flutter_launcher_icons or FontAwesomeIcons.
- 2. Images in Flutter:

Asset Images: Stored in the assets folder and defined in pubspec.yaml. Example:

dart

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```
Image.asset('assets/images/logo.png')
```

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Network Images: Loaded from a URL. Example:

dart

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```
Image.network('https://example.com/image.png')
```

- Memory & File Images: Used for dynamic images stored in device memory.
- 3. Fonts in Flutter:
 - Custom fonts can be added by including .ttf or .otf files in the assets/fonts directory.

Defined in pubspec.yaml: yaml

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fonts:

By configuring these assets correctly, developers can enhance the UI/UX of a Flutter application.

Steps to Implement the Start and Login Screens in Flutter

1. Project Setup

 Created a Flutter project and organized it with separate Dart files (start.dart, login screen.dart, etc.).

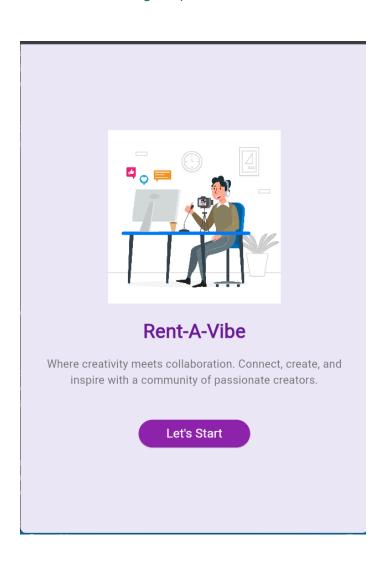
2. Start Screen Implementation

- Used StatefulWidget with Scaffold and SafeArea.
- Added an image using Image.asset('assets/start.jpg'), ensuring the image is placed inside the assets folder and declared in pubspec.yaml.
- Styled the title text using TextStyle with fontSize, fontWeight, and color.
- Wrapped the description text inside a Padding widget for spacing.
- Created a button using ElevatedButton with styleFrom for custom color, padding, and shape.
- Used Navigator.push to navigate to LoginScreen when the button is pressed.

3. Login Screen Implementation

 Created a StatefulWidget and used TextEditingController for email and password input.

- Wrapped UI inside a Container with BoxDecoration, giving it a white background, rounded corners, and a shadow effect.
- Added input fields using TextField, each having InputDecoration with labelText, prefixIcon, and OutlineInputBorder for styling.
- Used an ElevatedButton with custom styling for login functionality, calling the login() function when pressed.
- Implemented authentication using AuthService.signIn(), navigating to HomeScreen on success or showing a SnackBar on failure.
- Included social login icons using IconButton with Icons.g_mobiledata and Icons.facebook, styled with size and color.
- Provided a TextButton for navigation to the registration screen using Navigator.push.



	Login
M E	mail
P	assword
	Log In
	Or continue with
	G ()
	Don't have an account? Create now

Conclusion:

Including icons, images, and fonts in a Flutter app improves its visual appeal and usability. Proper asset management ensures efficient loading and better performance, enabling developers to create visually rich and engaging applications.