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Aim: To include icon images and fonts in flutter.

THEORY:

Custom Fonts in Flutter:

What is a Font?

A font is a set of characters with a specific style and size. Fonts are used to define the visual appearance of text in your application.

Custom Fonts in Flutter:

In Flutter, you can use custom fonts to give a unique look to the text in your application. Custom fonts are often used to match a specific brand or design aesthetic.

- How to Add Custom Fonts:
- 1. Font Files: Custom fonts are typically provided as font files (e.g., TrueType Font `.ttf` or OpenType Font `.otf`).
- 2. Directory: Place your font files in the `assets/fonts/` directory in your Flutter project.
- 3. Update `pubspec.yaml`: Add an entry in your `pubspec.yaml` file specifying the font file and its family name.

```
Example:
```yaml
flutter:
 fonts:
 - family: YourCustomFont
 fonts:
 - asset: assets/fonts/your_custom_font.ttf
```

- Using Custom Fonts in Text Widget:

Use the `fontFamily` property in the `TextStyle` to apply your custom font to a `Text` widget.

```
Example:
```dart
Text(
'Hello, World!',
style: TextStyle(fontFamily: 'YourCustomFont'),
)
```

Images in Flutter:

What is an Image?

An image is a visual representation or graphic in a digital form. In Flutter, images are used to display visual content.

Images in Flutter:

Flutter supports different types of images, including local assets and network images.

- How to Add Images:
- 1. Image Files: Images can be PNG, JPEG, GIF, etc.
- 2. Directory:*Place your image files in the `assets/images/` directory in your Flutter project.
- 3. Update `pubspec.yaml`:** Add an entry to the `assets` section in your `pubspec.yaml` file to include the image files.

```
Example:
```yaml
flutter:
assets:
- assets/images/your_image.png

'``
- Using Images in Flutter:
You can use the `Image` widget or `Image.asset` to display images.

Example:
```dart
Image.asset('assets/images/your_image.png')
```

. . .

Icons in Flutter:

What is an Icon?

An icon is a visual symbol representing an object, concept, or action. Icons are used to provide a quick and recognizable representation of functionality in an application.

Icons in Flutter:

Flutter provides a set of built-in icons that you can use directly. Additionally, you can use custom icons by importing image assets or using custom icon font libraries.

- Using Built-in Icons:

Flutter's `Icons` class provides a variety of built-in icons that you can use directly.

```
Example:
```

```
```dart
```

Icon(Icons.home)

` `

- Using Custom Icons:
- 1. Image Assets: Import custom icons as image assets.

# Example:

```
```dart
```

Image.asset('assets/icons/custom_icon.png')

. .

2. Icon Fonts: Use custom icon fonts (e.g., Font Awesome) by importing and using the corresponding icons.

Example:

```
```dart
```

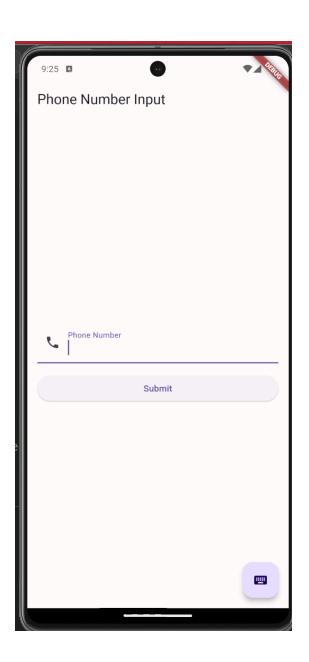
Icon(FontAwesomeIcons.someIcon)

` ` `

These concepts collectively contribute to the visual design and aesthetics of your Flutter application, allowing you to create a visually appealing and brand-consistent user interface.

```
CODE:
import 'package:flutter/material.dart';
void main() {
 runApp(MyApp());
class MyApp extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
 return MaterialApp(
 home: PhoneNumberInputScreen(),
);
}
class PhoneNumberInputScreen extends StatefulWidget {
 @override
 _PhoneNumberInputScreenState createState() => _PhoneNumberInputScreenState();
class PhoneNumberInputScreenState extends State<PhoneNumberInputScreen> {
 TextEditingController phoneNumberController = TextEditingController();
 @override
 Widget build(BuildContext context) {
 return Scaffold(
 appBar: AppBar(
 title: Text('Enter Phone number for verification'),
),
 body: Padding(
 padding: const EdgeInsets.all(16.0),
 child: Column(
 mainAxisAlignment: MainAxisAlignment.center,
 crossAxisAlignment: CrossAxisAlignment.stretch,
 children: [
 TextField(
 controller: _phoneNumberController,
 keyboardType: TextInputType.phone,
 decoration: InputDecoration(
```

```
labelText: 'Phone Number',
 prefixIcon: Icon(Icons.phone),
),
),
 SizedBox(height: 16.0),
 ElevatedButton(
 onPressed: () {
 // Handle phone number submission
 String phoneNumber = _phoneNumberController.text;
 print('Phone Number: $phoneNumber');
 child: Text('Submit'),
),
],
),
 floatingActionButton: FloatingActionButton(
 onPressed: () {
 // Show floating keypad
 // You can implement your own keypad logic or use a package
 // like 'flutter_numeric_keyboard' for a numeric keypad.
 // For simplicity, we'll just print a message here.
 print('Floating Keypad Pressed');
 },
 tooltip: 'Floating Keypad',
 child: Icon(Icons.keyboard),
),
);
OUTPUT:
```





The code uses built-in Flutter icons from the Icons class.

- Icons.person for the name input.
- Icons.email for the email input.
- Icons.phone for the phone number input.
- Icons.lock for the password input.
- ppBar: The app bar in the PhoneNumberInputScreen uses the Icons.phone icon for the prefix of the phone number input.
- ElevatedButton: The submit button uses the default Icons.check icon.
- FloatingActionButton: The floating action button (FAB) uses the Icons.keyboard icon.

• AppBar Action: An additional app bar action is included with the Icons.info icon, which is triggered when the user presses the info button.

# **Conclusion:**

The provided Flutter registration page code utilizes built-in Flutter icons (`Icons.person`, `Icons.email`, `Icons.phone`, and `Icons.lock`) for user input fields, and it doesn't include specific images or custom fonts, allowing flexibility for customization based on individual design preferences.