EXPERIMENT 3

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CLASS-D15A

ROLL NO-13

AIM-To include images, fonts in flutter app.

THEORY-

Images are an essential part of UI design, and Flutter supports adding both local and network images.

A) Local images can be stored in the project directory and loaded into the

app. Steps to add Local images

- Create an assets folder in the root directory.
- Store images inside the assets folder.
- Declare assets in pubspec.yaml under the flutter section:
  flutter:
    assets:
      - assets/image1.png
      - assets/images/image2.jpg

B) Network Images

Flutter allows displaying images from the internet using Image.network():

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

Font Awesome provides a vast collection of scalable vector icons that behave like fonts. These icons can be used in Flutter via the font_awesome_flutter package, which integrates Font Awesome's font-based icons seamlessly into the app.

SYNTAX

1)   Create an assets folder for Local

images. Declare assets in pubspec.yaml

file. flutter:

  assets:

   - assets/image1.png

   -     assets/images/image2.jpg

Image.asset('assets/image1.png')

2)   If using network Images

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

3)   Install fontawesome package in

flutter Add this dependency in

pubspec.yaml file dependencies:

  font_awesome_flutter: ^10.7.0

Run flutter pub get

FaIcon(FontAwesomeIcons.heart, size: 50, color: Colors.red)

Widget properties

1)image

- width: Sets image width.
- height: Sets image height.
- fit: Controls how image fits (e.g., BoxFit.cover, BoxFit.fill).
- alignment: Aligns the image inside the container.
- color: Applies a color filter.
- opacity: Controls image transparency.
- loadingBuilder: Handles loading states.
- errorBuilder: Handles image load errors.

Example

```
Image.network(
  'https://example.com/image.jpg',
  width: 100,
  height: 100,
  fit: BoxFit.contain,
  loadingBuilder: (context, child, progress) {
    return progress == null ? child : CircularProgressIndicator();
  },
  errorBuilder: (context, error, stackTrace) {
    return Icon(Icons.error);
  },
)
```

2)font

- size: Adjusts icon size.
- color: Sets icon color.
- semanticLabel: Adds an accessibility label for screen readers.

Example:
```
FaIcon(
  FontAwesomeIcons.heart,
  size: 50,       // Sets icon size
  color: Colors.red, // Sets icon color
  semanticLabel: 'Heart Icon', // Provides accessibility label
)
```

CODE

```dart
// Create a list of UserProfile instances
List<UserProfile> userProfiles = [
  UserProfile(
    name: "Mark Lee",
    age: 25,
    description: "You can mark me in your heart.",
    imageUrls: [
      "assets/images/mark-1.jpg",
      "assets/images/mark-2.jpg",
    ],
  ),
  UserProfile(
      name: "real__pcy",
      age: 28,
      description: "nan",
      imageUrls: [
        "assets/images/cy1.jpg",
        "assets/images/cy2.jpg",
        "assets/images/cy3.jpg",
        "assets/images/cy4.jpg"
      ]),
  UserProfile(
      name: "beakhyunee_",
      age: 28,
      description: "nan",
      imageUrls: [
        "assets/images/baek4.jpg",
        "assets/images/baek2.jpg",
        "assets/images/baek1.jpg"
      ]),
  UserProfile(
      name: "Anton Lee",
      age: 20,
      description: "make the impossible possible",
      imageUrls: [
        "assets/images/anton1.jpg",
      ]),
  UserProfile(
      name: "Park Wonbin",
      age: 22,
      description: "Chrome Heart lover",
      imageUrls: [
        "assets/images/wonbin1.jpg",
```

```
    ]),
  UserProfile(
      name: "jung Sungchan",
      age: 28,
      description: "bog bog",
      imageUrls: [
        "assets/images/jss1.jpg",
      ]),
  UserProfile(
      name: "mille",
      age: 28,
      description: "Action = Rection ",
      imageUrls: [
        "assets/images/hj1.jpg",
      ]),
  UserProfile(
    name: "JUJU",
    age: 28,
    description: "nan",
    imageUrls: [
    "assets/images/juyeon1.jpg",
  ]),
];
```

OUTPUT

🔥 **tinder**

Mark Lee 25
You can mark me in your heart.

⬆

✕　↻　♥

🔥
Home

💬
Chat

👤
Profile