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45
Batch B

MAD PWA LAB 3

AIM:
To include icons, images, fonts in flutter app.

THEORY:
1. Icons:
Flutter provides the Icon widget for displaying material design icons. We can also use icon packages like font_awesome_flutter for additional icon options.

2.Images:
We can use the Image widget to display images in your Flutter app. Images can be loaded from assets, the internet, or other sources.

3.Fonts:
To use custom fonts in Flutter, you need to include the font files (usually .ttf or .otf) in your project and then reference them in your Flutter code.

SYNTAX:
1.Icons:
Icon(Icons.star);

If we are using FontAwesomeIcons Library:
FaIcon(FontAwesomeIcons.star);
(Also this library needs to be added to pubspec.yaml file to be able to be used.)

2.Images:
Loading image from assets
Image.asset('assets/image.png');

Loading image from the internet
Image.network('https://example.com/image.jpg');

3.Fonts:
// Loading custom font
Text(
'Custom Font Text',
style: TextStyle(
fontFamily: 'Font Family',

```
fontSize: 16,
),
);
```

(This font family needs to be added to the pubspec.yaml file to be able to be used.)

WIDGETS AND PROPERTIES:

The widgets we focussed in this lab are:
- Images- We added the X logo image on the page.
- Icons- We added a facebook icon on the page from the FontAwesomeIcons library along with person and lock icons for username and password field.
- Fonts-

CODE:

```
class ProfilePage extends StatelessWidget {
 const ProfilePage({super.key});

 @override
 Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
     title: const Text('Profile Page'),
    ),
    body: Column(
     crossAxisAlignment: CrossAxisAlignment.stretch,
     children: [
      // Header image
      Container(
       height: 170,
       decoration: const BoxDecoration(
        image: DecorationImage(
         image: NetworkImage(
           'https://images.shiksha.com/mediadata/images/1553752427phpvP6G9K.png'),
         fit: BoxFit.cover,
        ),
       ),
       child: const Stack(
        children: [
         // Profile picture overlapping header image
         Positioned(
          top: 100,
          left: 20,
          child: CircleAvatar(
```

```dart
              radius: 50,
              backgroundImage: NetworkImage(

'https://resize.indiatvnews.com/en/resize/newbucket/1080_-/2023/06/untitled-design-2023-06-20
t120715-1687246152.jpg'),
            ),
          ),
        ],
      ),
    ),
    // Bio container
    Container(
      padding: const EdgeInsets.all(20),
      height: 250,
      child: const Column(
        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Row(
            children: [
              Icon(Icons.account_circle),
              SizedBox(width: 10),
              Text(
                'Shravani',
                style:
                    TextStyle(fontSize: 18, fontWeight: FontWeight.bold),
              ),
            ],
          ),
          SizedBox(height: 10),
          Row(
            children: [
              Icon(Icons.info),
              SizedBox(width: 10),
              Expanded(
                child: Text(
                  'My flutter project',
                  style: TextStyle(fontSize: 16),
                ),
              ),
            ],
          ),
          SizedBox(height: 10),
          Row(
            children: [
```

```
                Icon(Icons.location_on),
                SizedBox(width: 10),
                Text(
                  'Chembur',
                  style: TextStyle(fontSize: 16),
                ),
              ],
            ),
            SizedBox(height: 10),
            Row(
              children: [
                Icon(FontAwesomeIcons.birthdayCake),
                SizedBox(width: 10),
                Text(
                  'Born 1 Aug 2003',
                  style: TextStyle(fontSize: 16),
                ),
                SizedBox(width: 20), // Adjust the width as needed
                Icon(FontAwesomeIcons.calendarAlt),
                SizedBox(width: 10),
                Text(
                  'Joined 1 Feb 2024',
                  style: TextStyle(fontSize: 16),
                ),
              ],
            ),
          ],
        ),
      ),
      // Tweets
      Expanded(
        child: ListView.builder(
          itemCount: 10, // Number of tweets
          itemBuilder: (context, index) {
            return Card(
              margin: const EdgeInsets.symmetric(
                  horizontal: 10,
                  vertical: 10), // Increased vertical margin
              elevation: 3, // Adds a shadow
              child: ListTile(
                title: Text('Tweet $index'),
                subtitle: Text(
                    'Date: ${DateTime.now().toString()}'), // Example of displaying date, replace with
actual tweet date
```
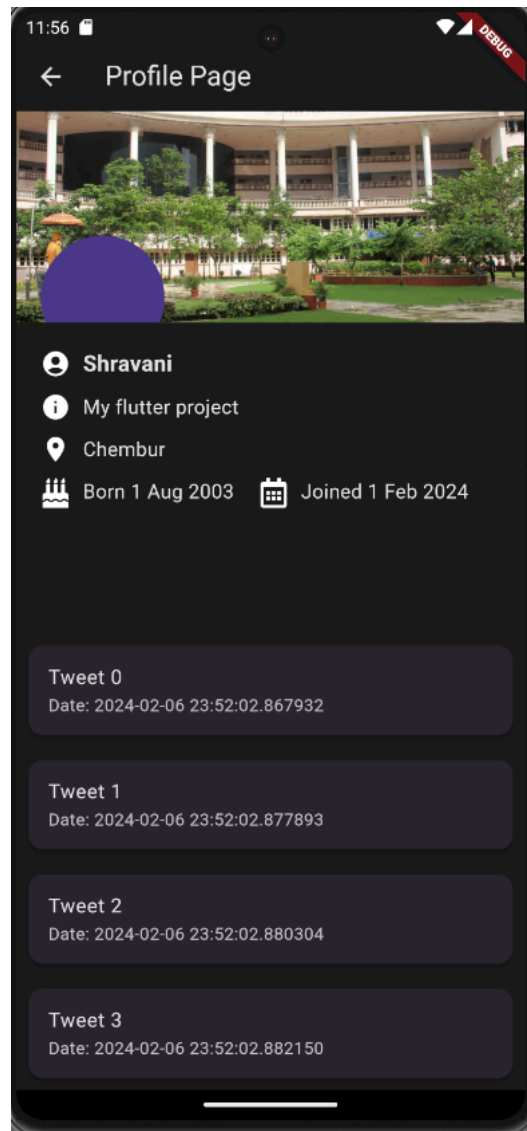
```
          ),
        );
      },
    ),
  ),
],
),
);
}
}
```

CONCLUSION:

1. Learnt about fonts, images and icons in flutter.
2. Imported a new library for icons and added it to the pubspec.yaml file.
3. Faced errors in adding image due to usage of assets syntax instead of network syntax while using image from browser.