

## EXPERIMENT 3

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CLASS-D15A

ROLL NO-03

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

Falcon(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:

```

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

```

```

ListTile(leading: Icon(Icons.star), title: Text("Premium"), onTap: () {}),

```

```

ListTile(leading: Icon(Icons.bookmark), title: Text("Bookmarks"),
onTap: () {}),

```

```

ListTile(leading: Icon(Icons.list), title: Text("Lists"), onTap: () {}),

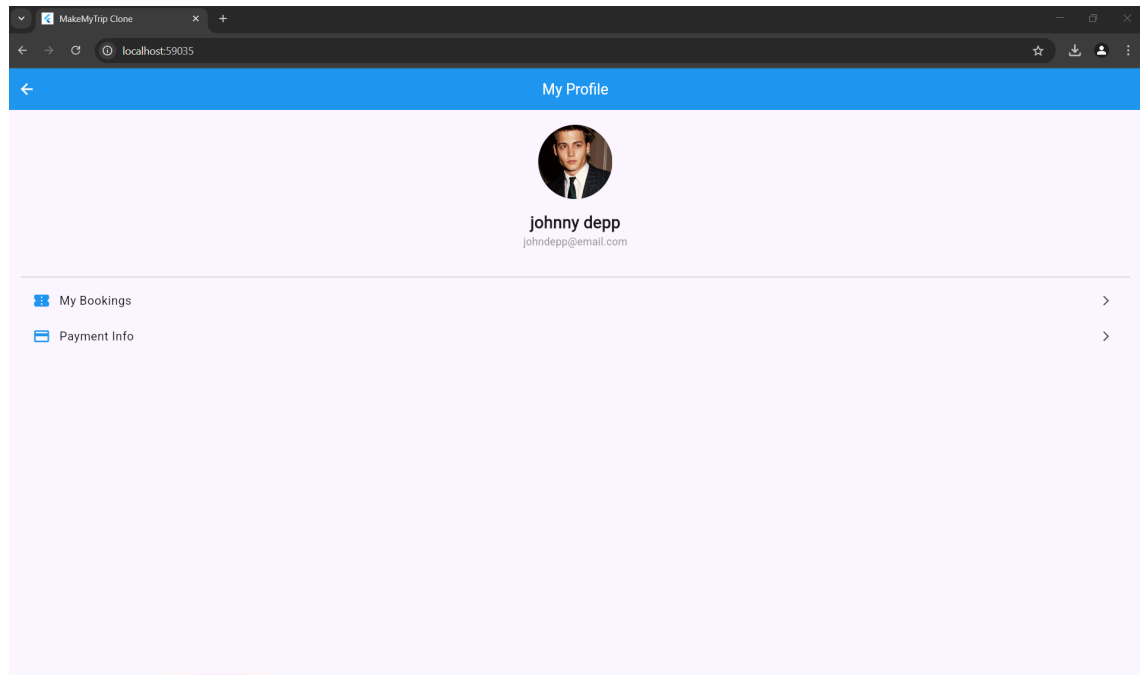
```

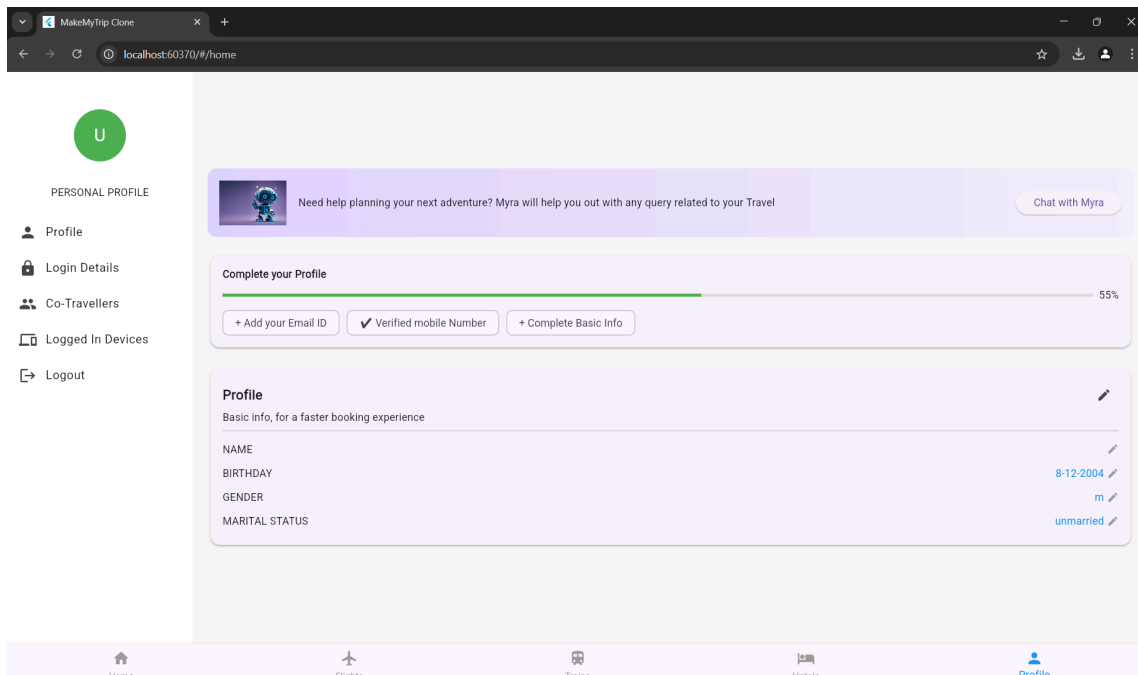
```
ListTile(
```

```
  leading: Icon(Icons.logout, color: Colors.red), title: Text("Logout"),  
  onTap: _logout),
```

```
],
```

## OUTPUT





## CODE

```
@override

Widget build(BuildContext context) {

  return Scaffold(

    appBar: AppBar(

      title: const Text("My Profile"),

      centerTitle: true,

      backgroundColor: Colors.blue,

      iconTheme: const IconThemeData(color: Colors.white),

      titleTextStyle: const TextStyle(color: Colors.white,
fontSize: 20),

    ),

    body: Padding(

      padding: const EdgeInsets.all(20.0),

      child: Column(
```

```
crossAxisAlignment: CrossAxisAlignment.center,

children: [

  const CircleAvatar(

    radius: 50,

    backgroundImage: AssetImage('assets/user.jpg'),

  ),

  const SizedBox(height: 16),

  const Text(

    'johnny depp',

    style: TextStyle(

      fontSize: 22,

      fontWeight: FontWeight.bold,

    ),

  ),

  const Text(

    'johndepp@email.com',

    style: TextStyle(color: Colors.grey),

  ),

  const SizedBox(height: 30),

  const Divider(),

  ProfileOption(

    icon: Icons.confirmation_num,

    title: 'My Bookings',

    onTap: () {
```

```
        Navigator.push(
            context,
            MaterialPageRoute(builder: (context) =>
BookingConfirmationScreen(bookingType: ' '),)),
        );
    },
),
ProfileOption(
    icon: Icons.payment,
    title: 'Payment Info',
    onTap: () {
        Navigator.push(
            context,
            MaterialPageRoute(builder: (context) =>
PaymentScreen(bookingType: ' '),)),
        );
    },
),
],
),
),
);
}
```

```
class ProfileOption extends StatelessWidget {

  final IconData icon;

  final String title;

  final VoidCallback onTap;

  const ProfileOption({

    super.key,

    required this.icon,

    required this.title,

    required this.onTap,

  });

  @override

  Widget build(BuildContext context) {

    return ListTile(

      leading: Icon(icon, color: Colors.blue),

      title: Text(title),

      trailing: const Icon(Icons.arrow_forward_ios, size: 16),

      onTap: onTap,

    );

  }

}
```



# OUTPUT

