Experiment No.3
MAD & PWA LAB

- **Aim:** To include icons, images, fonts in Flutter app.

- **Theory:**

→ **Icons in Flutter: –**
   Flutter provides a wide range of icons through the Icons class. Additionally, you can use custom icons by integrating packages like flutter_icons or font_awesome_flutter.

   1) Using Built-in Icons –
   ✓ Flutter's material design icons are accessible through the Icons class. For example:
   ```
   Icon(Icons.star);
   ```

   2) Using External Icon Libraries –
   ✓ To use external icon libraries, add the required dependency to our pubspec.yaml file and import the icons for usage.

   ```
   dependencies:
    font_awesome_flutter: ^9.0.0
   ```

   ```
   import 'package:font_awesome_flutter/font_awesome_flutter.dart';
   ```

   ```
   // Usage
   Icon(FontAwesomeIcons.camera);
   ```

→ **Images in Flutter: –**
   To include images in our Flutter app, you can use the Image widget. Make sure to place our images in the project directory and update the pubspec.yaml file accordingly.

   1) Adding Image Assets –
   ✓ Add the image assets to our pubspec.yaml file:

   ```
   flutter:
    assets:
      - assets/images/my_image.png
   ```
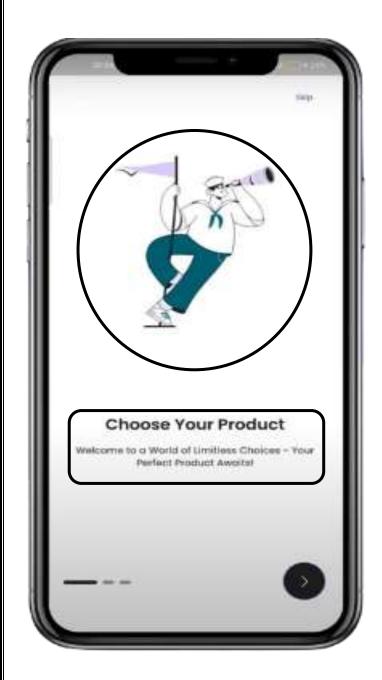
   2) Using Images in Code –
   ✓ Load images using the Image widget:

   ```
   Image.asset('assets/images/my_image.png');
   ```

```
PageView(
  children: [
    Column(
      mainAxisAlignment:
MainAxisAlignment.center,
      crossAxisAlignment:
CrossAxisAlignment.center,
      children: [
        Image(
          width:
THelperFunctions.screenWidth() * 0.8,
          height:
THelperFunctions.screenHeight() * 0.6,
          image: const
AssetImage(TImages.onBoardingImage
1),
        ),
        const SizedBox(height:
TSizes.spaceBtwItems),
        Text(
          TTexts.onBoardingTitle1,
          style:
Theme.of(context).textTheme.headline
Medium,
          textAlign: TextAlign.center,
        ),
        const SizedBox(height:
TSizes.spaceBtwItems),
        Text(
          TTexts.onBoardingSubtitle1,
          style:
Theme.of(context).textTheme.bodyText
1,
          textAlign: TextAlign.center,
        ),
      ],
    ),
headlineMedium,
        textAlign: TextAlign.center,
      ), // Text
```

→ **Fonts in Flutter: –**
To include custom fonts in our Flutter app, you need to define them in the pubspec.yaml file and then reference them in our Flutter code.

1) Adding Custom Fonts –
✓ Add custom fonts to our pubspec.yaml:

```
flutter:
 fonts:
   - family: MyCustomFont
    fonts:
      - asset: assets/fonts/my_custom_font.ttf
```

2) Using Custom Fonts –
✓ Apply the custom font in our Flutter code:

```
Text(
 'Hello, Custom Font!',
 style: TextStyle(fontFamily: 'MyCustomFont'),
);
```

- **<u>Conclusion:</u>**
In conclusion, we've gained insights into incorporating icons, images, and fonts within the construction of our application's Boarding Screen, specifically for TradeSphere's [E-Commerce].