

Aim:

To learn how to include and use icons, images, and custom fonts in a Flutter application.

Theory:

Flutter allows developers to enhance their app's UI by adding icons, images, and custom fonts. This improves the app's aesthetics and usability.

1. Adding Icons in Flutter

Flutter provides built-in icons through the Icons class and also supports custom icons.

- **Using Built-in Icons:**

dart

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```
Icon(Icons.home, size: 50, color: Colors.blue)
```

- **Using Custom Icons (from Assets, such as FontAwesome):**

- Add the package to pubspec.yaml:

yaml

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dependencies:

```
font_awesome_flutter: ^10.4.0
```

- Use the icon:

dart

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```
Icon(FontAwesomeIcons.car, size: 50, color: Colors.red)
```

2. Adding Images in Flutter

Flutter supports images from different sources:

- **Adding Asset Images:**

1. Place the image inside the assets/images/ folder.

2. Declare it in pubspec.yaml:

yaml

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flutter:

assets:

- assets/images/car.png

3. Use it in the app:

dart

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Image.asset('assets/images/car.png', width: 100, height: 100)

- **Using Network Images:**

dart

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Image.network('https://example.com/image.jpg', width: 100, height: 100)

3. Adding Custom Fonts in Flutter

Custom fonts allow better UI customization.

- **Steps to Add Custom Fonts:**

1. Place the font files inside the assets/fonts/ folder.
2. Declare them in pubspec.yaml:

yaml

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flutter:

fonts:

- family: CustomFont

fonts:

- asset: assets/fonts/CustomFont-Regular.ttf

- asset: assets/fonts/CustomFont-Bold.ttf

weight: 700

3. Use the font in the app:

dart

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```
Text('Welcome to Flutter!', style: TextStyle(fontFamily: 'CustomFont', fontSize: 20))
```

Code:

```
// Add this to your pubspec.yaml under flutter section:
```

```
// fonts:
```

```
// - family: TechnixIcons
```

```
// fonts:
```

```
// - asset: assets/fonts/TechnixIcons.ttf
```

```
import 'package:flutter/material.dart';
```

```
class TechnixIcons {
```

```
  // App Bar & Navigation Icons
```

```
  static const IconData appLogo = Icons.build_circle; // App logo
```

```
  static const IconData menu = Icons.menu; // Drawer menu
```

```
  static const IconData home = Icons.home_rounded; // Home screen
```

```
  static const IconData search = Icons.search; // Search functionality
```

```
  static const IconData notification = Icons.notifications; // Notifications
```

```
  // Authentication & Profile Icons
```

```
  static const IconData login = Icons.login; // Login
```

```
  static const IconData logout = Icons.logout; // Logout
```

```
  static const IconData profile = Icons.person; // User profile
```

```
  static const IconData email = Icons.email; // Email field
```

```
  static const IconData password = Icons.lock; // Password field
```

```
  static const IconData eye = Icons.visibility; // Password visibility
```

```
  static const IconData eyeOff = Icons.visibility_off; // Password hidden
```

```
  static const IconData edit = Icons.edit; // Edit profile
```

```
  // Car Service Related Icons
```

```
  static const IconData car = Icons.directions_car; // Car icon
```

```
static const IconData repair = Icons.build; // Repair services
static const IconData diagnostic = Icons.memory; // Car diagnostic
static const IconData tire = Icons.tire_repair; // Tire service
static const IconData battery = Icons.battery_full; // Battery service
static const IconData oil = Icons.opacity; // Oil change
static const IconData engine = Icons.settings; // Engine service
static const IconData ac = Icons.ac_unit; // AC service
static const IconData brake = Icons.do_not_step; // Brake service
static const IconData wash = Icons.local_car_wash; // Car wash
```

```
// Location & Navigation Icons
```

```
static const IconData location = Icons.location_on; // Location marker
static const IconData navigation = Icons.navigation; // Navigation
static const IconData map = Icons.map; // Map view
static const IconData direction = Icons.directions; // Get directions
```

```
// Booking & Payment Icons
```

```
static const IconData calendar = Icons.calendar_today; // Booking calendar
static const IconData time = Icons.access_time; // Time selection
static const IconData payment = Icons.payment; // Payment
static const IconData wallet = Icons.account_balance_wallet; // Wallet
static const IconData creditCard = Icons.credit_card; // Credit card
static const IconData offer = Icons.local_offer; // Offers/Discounts
```

```
// Communication Icons
```

```
static const IconData chat = Icons.chat; // Chat with mechanic
static const IconData call = Icons.call; // Call support
static const IconData support = Icons.support_agent; // Customer support
static const IconData feedback = Icons.feedback; // User feedback
```

```
// Status & Progress Icons
```

```
static const IconData pending = Icons.pending; // Pending status
static const IconData inProgress = Icons.engineering; // Service in progress
static const IconData complete = Icons.check_circle; // Service complete
static const IconData cancelled = Icons.cancel; // Cancelled service
static const IconData warning = Icons.warning; // Warning/Alert

// Misc Utility Icons
static const IconData share = Icons.share; // Share functionality
static const IconData favorite = Icons.favorite; // Favorites/Wishlist
static const IconData camera = Icons.camera_alt; // Camera for photos
static const IconData attachment = Icons.attach_file; // File attachments
static const IconData filter = Icons.filter_list; // Filter options
static const IconData sort = Icons.sort; // Sort functionality
static const IconData info = Icons.info; // Information
static const IconData help = Icons.help; // Help section
}
```

**Conclusion:**

By following these steps, icons, images, and fonts can be seamlessly integrated into a Flutter app. This enhances the visual appeal, user engagement, and branding of the application, making it more attractive and interactive.