# **Erply UI Package**

A comprehensive Flutter UI package with advanced theme management.

# Package Structure

#### **Features**

- Flexible Theme Management
- Custom Theme Creation
- Typography Customization
- Custom Font Support
- Theme Registry
- Riverpod State Management
- Responsive Layout
- Custom SVG icon management

#### Installation

Add the following to your pubspec yaml:

```
dependencies:
  erply_ui: ^0.2.0
  flutter_riverpod: ^2.4.9
```

### Usage

Theme Management

#### **Registering Themes**

```
// Create a custom theme
class CustomTheme extends ErplyThemeData {
  CustomTheme() : super(
    name: 'CustomTheme',
    typographyConfig: ErplyTypographyConfig(
      displayLarge: ErplyFontConfig(
        fontFamily: 'CustomFont',
        fontSize: 32,
        fontWeight: FontWeight.bold,
        color: Colors.purple,
     ),
    ),
    primaryColor: Colors.purple,
 );
}
// Register the theme (IMPORTANT: Must be done before using)
ErplyThemeRegistry.registerTheme(CustomTheme());
```

#### **Changing Themes**

```
class ThemeDemo extends ConsumerWidget {
 @override
 Widget build(BuildContext context, WidgetRef ref) {
    final themeNotifier = ref.read(erplyThemeProvider.notifier);
    return Scaffold(
      body: Column(
        children: [
          // Change to a specific theme (light variant)
          ElevatedButton(
            onPressed: () async {
              await themeNotifier.setThemeByName(
                'CustomTheme',
                variant: ErplyThemeVariant.light
              );
            },
            child: Text('Switch to Light Custom Theme'),
          ),
          // Change to dark variant
          ElevatedButton(
            onPressed: () async {
              await themeNotifier.setThemeByName(
                'CustomTheme',
                variant: ErplyThemeVariant.dark
              );
```

```
},
             child: Text('Switch to Dark Custom Theme'),
           ),
        ],
      ),
    );
 }
}
```

#### **Material App Configuration**

```
runApp(
  ProviderScope(
    child: Consumer(
      builder: (context, ref, child) {
        final themeNotifier = ref.watch(erplyThemeProvider.notifier);
        return MaterialApp(
          theme: themeNotifier.getLightTheme(),
          darkTheme: themeNotifier.getDarkTheme(),
          // Automatically persists and restores theme
          themeMode: themeNotifier.currentVariant ==
ErplyThemeVariant.dark
            ? ThemeMode.dark
            : ThemeMode.light,
          home: MyHomePage(),
        );
      },
    ),
  ),
);
```

#### **Theme Registry Methods**

```
// Check if a theme is registered
bool isRegistered = ErplyThemeRegistry.hasTheme('CustomTheme');
// Get all registered theme names
List<String> themeNames = ErplyThemeRegistry.getThemeNames();
// Retrieve a specific theme
ErplyThemeData? theme = ErplyThemeRegistry.getTheme('CustomTheme');
```

#### **Key Features**

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Automatic theme persistence

- Fallback to default theme if registered theme is removed
- · Support for light and dark variants
- Easy theme registration and management

# **Font Configuration**

```
// Create a font configuration
final fontConfig = ErplyFontConfig(
  fontFamily: 'CustomFont',
  fontSize: 16,
  fontWeight: FontWeight.w400,
  color: Colors.black87,
  letterSpacing: 0.5,
  height: 1.5,
);
```

### **Adding Custom Fonts**

- 1. Add your font to assets/fonts/ in your project
- 2. Update pubspec yaml:

```
flutter:
    fonts:
        - family: CustomFont
        fonts:
             - asset: assets/fonts/CustomFont-Regular.ttf
             - asset: assets/fonts/CustomFont-Bold.ttf
             weight: 700
```

# Components

#### **Text Fields**

```
ErplyTextField(
   labelText: 'Email',
   hintText: 'Enter your email',
)
```

#### **Buttons**

```
ErplyButton(
  text: 'Submit',
```

```
onPressed: () {},
)
```

### **Responsive Layout**

#### **Features**

- Adaptive navigation between NavigationRail and Drawer
- Responsive design for different screen sizes
- Customizable navigation items
- Support for extended navigation rail on wider screens

#### **Basic Usage**

```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return ErplyResponsiveLayout(
      title: 'My App',
      selectedIndex: 0,
      navigationItems: [
        ErplyNavigationItem(
          icon: Icons.home,
          label: 'Home',
          onTap: () {
            // Navigate or perform action
            Navigator.push(
              context,
              MaterialPageRoute(builder: (context) => HomePage())
            );
          },
        ),
        ErplyNavigationItem(
          icon: Icons.settings,
          label: 'Settings',
          onTap: () {
            // Navigate or perform action
            Navigator.push(
              context,
              MaterialPageRoute(builder: (context) => SettingsPage())
            );
          },
        ),
      ],
      content: Center(
        child: Text('Main Content Area'),
      ),
    );
  }
```

#### Responsive Behavior

- On screens wider than 600px: NavigationRail on the left
- On screens narrower than 600px: Drawer navigation
- NavigationRail extends to show labels on wider screens (>800px)

#### **Customization Options**

```
ErplyResponsiveLayout(
 // Custom app bar title
 title: 'Custom Title',
 // Optional app bar actions
 actions: [
    IconButton(
     icon: Icon(Icons.search),
     onPressed: () {/* Search action */},
   ),
 ],
 // Custom background color
 backgroundColor: Colors.grey[100],
 // Initial selected navigation index
 selectedIndex: 1,
 // Navigation items with custom icons and actions
 navigationItems: [
   ErplyNavigationItem(
      icon: Icons.dashboard,
      selectedIcon: Icon(Icons.dashboard, color: Colors.blue),
      label: 'Dashboard',
     onTap: () {/* Dashboard action */},
    ),
   // More navigation items...
 ],
 // Main content
 content: MyCustomContentWidget(),
)
```

#### Navigation Item Configuration

```
ErplyNavigationItem(
   // Primary icon
   icon: Icons.home,
```

```
// Optional selected state icon
selectedIcon: Icon(Icons.home, color: Colors.blue),

// Label displayed next to or under the icon
label: 'Home',

// Callback when the navigation item is tapped
onTap: () {
    // Navigate or perform an action
},
)
```

#### Responsive Design Considerations

- Automatically adapts to screen width
- Provides a consistent navigation experience across devices
- Minimizes layout changes while maintaining usability

### **Erply Icons**

#### **Features**

- Custom SVG icon management
- · Easy icon loading
- Color and size customization
- Asset-based icon system

#### **Basic Usage**

```
// Using ErplyIcons class
SvgPicture dashboardIcon = ErplyIcons.svg(
   'dashboard',
   width: 24,
   height: 24,
   color: Colors.blue
);

// Using string extension
SvgPicture profileIcon = 'profile'.toErplyIcon(
   width: 32,
   height: 32,
   color: Colors.green
);
```

#### Icon Management

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```
// Check if an icon exists
bool hasDashboardIcon = ErplyIcons.hasIcon('dashboard');

// Get list of available icons
List<String> availableIcons = ErplyIcons.availableIcons;
```

#### **Error Handling**

```
try {
   // Throws an error if icon doesn't exist
   SvgPicture nonExistentIcon = 'nonexistent'.toErplyIcon();
} catch (e) {
   print('Icon not found: $e');
}
```

#### Integration with Widgets

```
// In a button or other widget
ElevatedButton(
  child: Row(
    children: [
        'dashboard'.toErplyIcon(width: 16),
        Text('Dashboard'),
        ],
    ),
    onPressed: () {},
)
```

#### Adding Custom Icons

- 1. Place SVG icons in assets/icons/ directory
- 2. Update availableIcons in erply\_icons.dart
- 3. Run flutter pub get

#### **Design Considerations**

- Lightweight SVG icon management
- Easy to extend and customize
- Consistent with Material Design principles

# Contributing

Contributions are welcome! Please submit a Pull Request.

#### License

