

# Internationalization and Localization in Flutter Apps



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#### Internationalization and Localization in Flutter

- Definition and importance of internationalization and localization in app development
- Benefits of creating a multilingual app
- Goals of the project





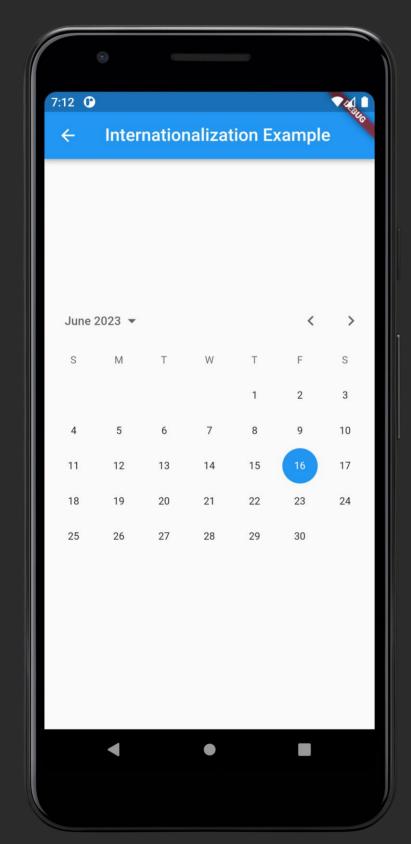
# Importance of a Multilingual App

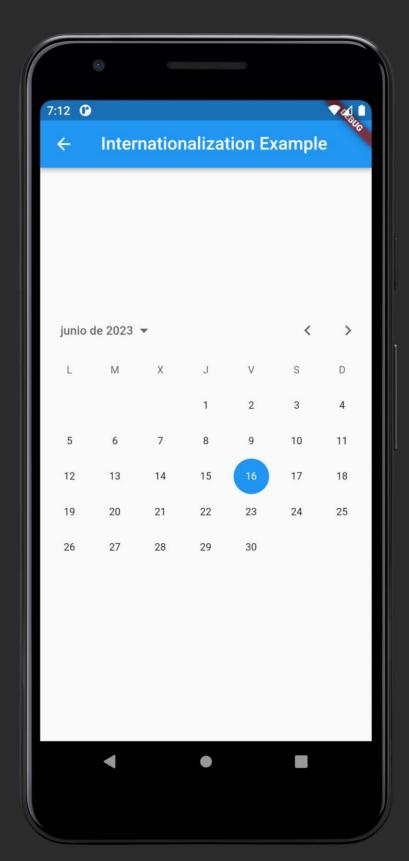
- Expanding the user base and reaching a global audience
- Enhancing user experience by providing content in their preferred language
- Boosting user engagement and increasing app adoption

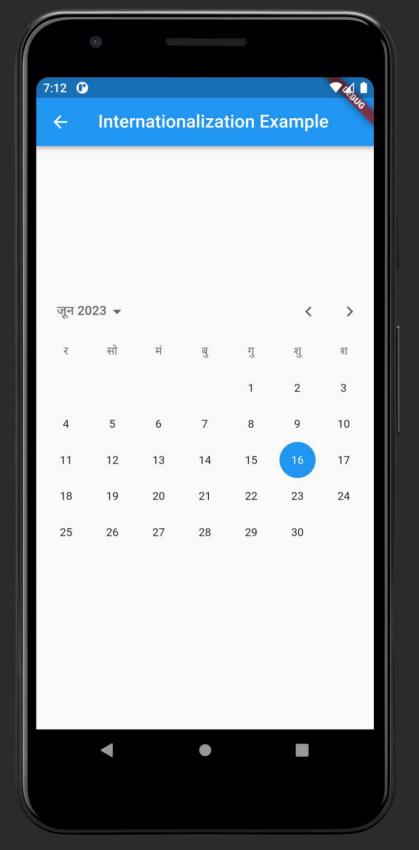




#### Internationalization Screen - Overview





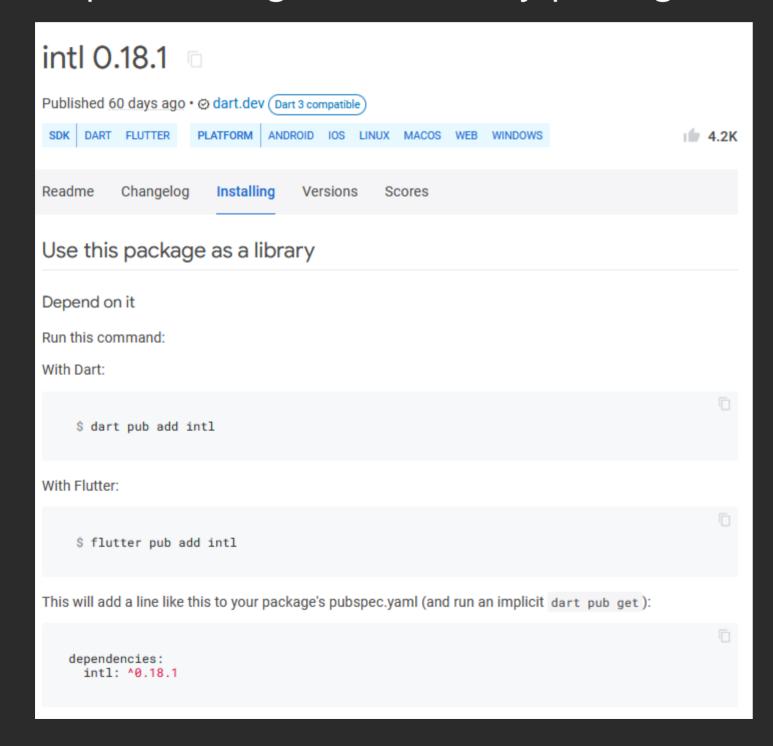






# Implementing Internationalization in Flutter

Step 1: Adding the necessary package to enable internationalization







# Implementing Internationalization in Flutter

Step 2: Implementing code changes to support multiple languages

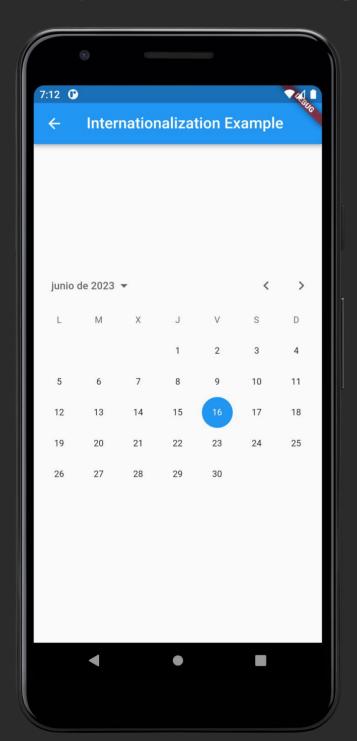
```
Localizations.override(
  context: context,
 locale: const Locale('es'),
 // Using a Builder to get the correct BuildContext.
 // Alternatively, you can create a new widget and Localizations.override
 // will pass the updated BuildContext to the new widget.
 child: Builder(
   builder: (context) {
     // A toy example for an internationalized Material widget.
     return CalendarDatePicker(
       initialDate: DateTime.now(),
       firstDate: DateTime(1900),
       lastDate: DateTime(2100),
       onDateChanged: (value) {},
```





# Implementing Internationalization in Flutter

Step 3: Showcasing the integration of a date picker widget with language support

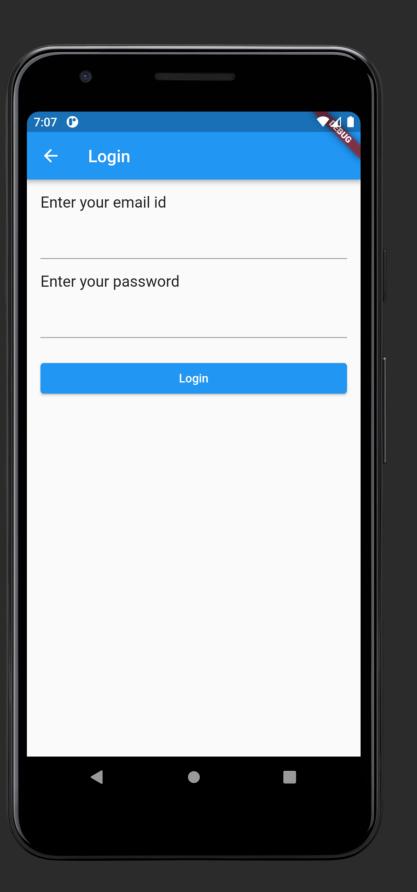






#### Localization Screen - Overview









Step 1: Adding the necessary localization package at pubspec.yaml

```
sdk: flutter
flutter_lints: ^2.0.0
generate: true # Add thi line for localization
# The following line ensures that the Material Icons fon
uses-material-design: true
```





• Step 2: Creating the I10n folder structure and files (display a screenshot)

```
> 🐷 build
  🚃 ios
       app_en.arb
       app_hi.arb
     nome.dart
     internationalization.dart
     localization.dart
     to main.dart
```





Step 3: Adding resources files for different languages (display files)





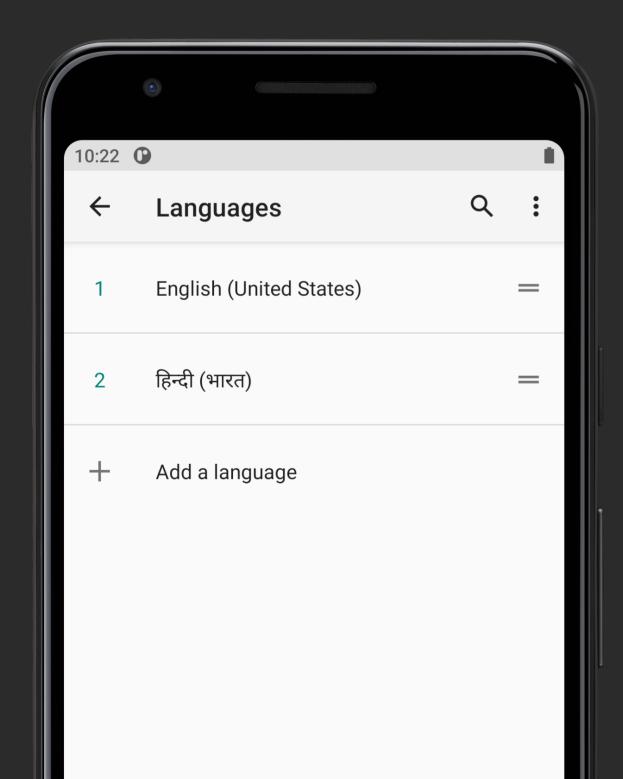
Step 4: Displaying text from resources files in the app (display files)

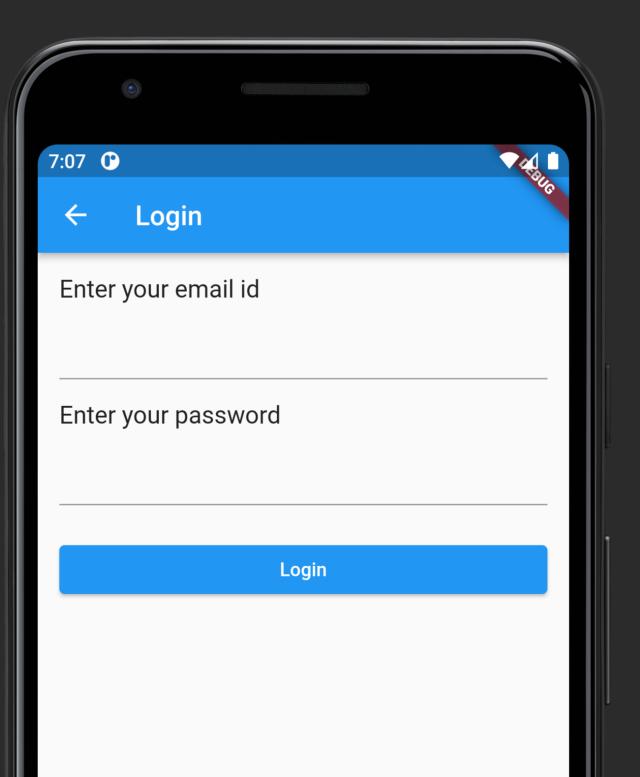
```
appBar: AppBar
title: Text AppLocalizations.of(context)!.loginScreenTitle)
-body: Padding(
  padding: EdgeInsets.all(16.0),
 — child: Column(
    crossAxisAlignment: CrossAxisAlignment.stretch,
    children: [
      Text(
        AppLocalizations.of(context)!.enterEmail,
       style: TextStyle(fontSize: 18.0),
      SizedBox(height: 8.0),
      TextFormField(
        onChanged: (value) {
          setState(() {
            email = value;
          });
      SizedBox(height: 16.0),
        AppLocalizations.of(context)!.enterPassword,
        style: TextStyle(fontSize: 18.0),
      SizedBox(height: 8.0),
      TextFormField(
        obscureText: true,
        onChanged: (value) {
          setState(() {
            password = value;
          });
```





• Step 5: Demonstrating how changing the device language affects the app's text









• Step 5: Demonstrating how changing the device language affects the app's text







