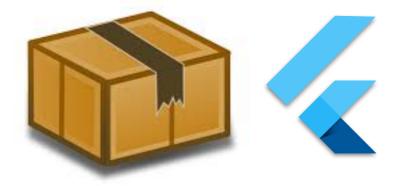
# Chapter V Third Party Flutter Packages





- **1.Shared Preferences**
- 2. Cached Network Image
- 3.Image Picker
- 4.Image Cropper
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# 1.Shared Preferences

Add plugin name in pubspec.yaml as:

```
shared_preferences
```

```
Usage:
```

```
var prefs = await SharedPreferences.getInstance();
int runTimeCount = (prefs.getInt('runtime') ?? 0);
++runTimeCount;
prefs.setInt('runtime', runTimeCount);
print(runTimeCount)
```

# 2. Cached Network Image

```
cached_network_image (Declaration in pubspec.yaml)
```

# **Usage:**

```
CachedNetworkImage(
imageUrl: part.image,

fit: BoxFit.cover,

width: double.maxFinite,

height: size.height / 5,

),

), //As a widget
```

```
part.image,
fit: BoxFit.cover,
width: double.maxFinite,
height: size.height / 5,
),
```

CachedNetworkImageProvider(

),//ImageProvider instead allows you to identify an image



# 3.Image Picker

```
image picker (Declaration in pubspec.yaml)
List<File> imageFiles = []; //For use as array if need
File imageFile
File picture = await ImagePicker.pickImage(source:
     ImageSource.gallery);
this.setState(() {
     imageFile = picture;
});
Note: Add Privacy key in info.plist for iOS
<key>NSCameraUsageDescription</key>
<string>Camera Access Warning</string>
<key>NSMicrophoneUsageDescription</key>
<string>Microphone Access Warning</string>
<key>NSPhotoLibraryUsageDescription</key>
<string>Photo Library Access Warning</string>
     And, in Android declared in AndroidManifest.xml
<activity
     android:name="com.yalantis.ucrop.UCropActivity"
     android:screenOrientation="portrait"
     android:theme="@style/Theme.AppCompat.Light.NoActionBar"/
     >
```



# **Full Example**

```
_openGalleryForImage(BuildContext context) async {
           var picture = await ImagePicker.pickImage(source:
                      ImageSource.gallery);
                this.setState(() {
                 File imageFile = picture;
                 });
                 Navigator.of(context).pop();
           }
     _openCameraForImage(BuildContext context) async {
           var picture = await ImagePicker.pickImage(source:
           ImageSource.camera);
           this.setState(() {
                 File imageFile = picture;
                imageFiles.add(imageFile);
                 });
                 Navigator.of(context).pop();
Future < void > _showChoiceDialogForImage(BuildContext context) {
  return showDialog(
    context: context,
    builder: (BuildContext context) {
      return CupertinoAlertDialog(
       title: new Text("Make a choice"),
       content: new Text("You can upload image using..."),
       actions: <Widget>[
         CupertinoDialogAction(
          isDefaultAction: true,
          child: Text("Camera"),
          onPressed: () {
           _openCameraForImage(context);
          },
         ),
         CupertinoDialogAction(
          isDefaultAction: true,
          child: Text("Gallery"),
          onPressed: () {
           _openGalleryForImage(context);
       ),
)
```

```
}
```

# **4.Image Cropper**

```
image_cropper: ^0.0.4
```

```
File croppedFile = await ImageCropper.cropImage(
    sourcePath: image.path,
    // ratioX: 1.0,
    // ratioY: 1.0,
    // maxWidth: 512,
    // maxHeight: 512,
    );
}
```

# **5.Multi Image Picker**

```
multi_image_picker:4.0.3
```

```
List<UploadFileInfo> files;

List<Asset> resultList = List<Asset>( );
resultList = await MultiImagePicker.pickImages(
maxImages: 10,
enableCamera: false,
);
```



# **Full Example:**

```
List<UploadFileInfo> files;
Future getImage() async {
  List<Asset> resultList = List<Asset>();
  resultList = await MultiImagePicker.pickImages(
    maxImages: 10,
   enableCamera: false,
  );
  if (resultList.length == 0) return;
  for (var asset in resultList) {
    int MAX_WIDTH = 300; //keep ratio
    int height =
      ((MAX_WIDTH * asset.originalHeight) / asset.originalWidth).round();
    ByteData byteData =
      await asset.requestThumbnail(MAX_WIDTH, 300, quality: 80);
    if (byteData != null) {
     List<int> imageData = byteData.buffer.asUint8List();
     UploadFileInfo u = UploadFileInfo.fromBytes(imageData, asset.name);
     files.add(u)
   }
  setState(() {
  });
6.Image Gallery Saver
     image_gallery_saver
     Usage:
var result = await ImageGallerySaver.saveImage(imageData);
```



# **Full Example**

```
import 'dart:convert';
import 'dart:typed_data';
import 'dart:ui';
import 'package:image_gallery_saver/image_gallery_saver.dart';
Future<Uint8List> _capturePng() async {
  try {
   RenderRepaintBoundary boundary =
      globalKey.currentContext.findRenderObject();
    var image = await boundary.toImage(pixelRatio: 3.0);
    ByteData byteData = await image.toByteData(format:
ImageByteFormat.png);
    var pngBytes = byteData.buffer.asUint8List();
    var bs64 = base64Encode(pngBytes);
    setState(() {});
    return pngBytes;
  } catch (e) {
   print(e);
  }
var imageData = await _capturePng();
          var result = await ImageGallerySaver.saveImage(imageData);
```



# 7. Carousel Pro

# carousel\_pro

# Usage

```
Carousel(
boxFit: BoxFit.cover,

images: //Image here,

autoplay: true,

// animationCurve: Curves.fastOutSlowIn,

// animationDuration: Duration(milliseconds: 1),

dotSize: 5.0,

dotColor: Colors.white,

showIndicator: true,

indicatorBgPadding: 8.0,

dotBgColor: Colors.transparent,
),
```

# **8.Permission Handler**

# Usage

```
PermissionHandler()
.requestPermissions(<PermissionGroup>[PermissionGroup.storage]);
```

## **Note**



## For iOS

# For android to access location. Add following line in AndroidManifest.xml

# 9.Location

```
location: ^2.3.5
```

# **Usage**

```
StreamSubscription < LocationData > _locationSubscription;

Location _locationService = new Location();
bool _permission = false;
String error;

initPlatformState() async {
   await _locationService.changeSettings(
   accuracy: LocationAccuracy.HIGH, interval: 1000);

LocationData location;

try {
   bool serviceStatus = await _locationService.serviceEnabled();
   print("Service status: $serviceStatus");
   if (serviceStatus) {
        _permission = await _locationService.requestPermission();
   if ( permission) {
```



```
location = await _locationService.getLocation();
      CurrentLocation = location;
     }
    } else {
     bool serviceStatusResult = await locationService.requestService();
     print("Service status activated after request: $serviceStatusResult");
     if (serviceStatusResult) {
      initPlatformState();
     }
    }
  } on PlatformException catch (e) {
    print(e);
   if (e.code == 'PERMISSION DENIED') {
     error = e.message;
    } else if (e.code == 'SERVICE_STATUS_ERROR') {
     error = e.message;
   location = null;
 }
10.Flutter Swipper
```

# flutter\_swiper

# Usage

```
Swiper.children(
autoplay: false,
index: 0,
loop: false,
pagination: SwiperPagination(
 margin: EdgeInsets.fromLTRB(0.0, 0.0, 0.0, 40.0),
 builder: DotSwiperPaginationBuilder(
    color: Colors.grey,
    activeColor: appColor,
    size: 6.5,
    activeSize: 8.0),
```

```
control: SwiperControl(
  iconPrevious: null,
  iconNext: null,
),
  children: _getPages(context),
),
```

11.Url Launcher < Refer to package link>

12.Connectivity
<Refer to package link>

13.Toast

<Refer to package link>

