Angular 9 Is Av

Become a member   Login

Post ▾   Ask Question

How To Save An Image To A Specific Path In Ionic 3 Using Native C

Muthu Kumar   Updated date Aug 23 2018   43.4k   11   8

Download Free .NET & JAVA Files API
Try Free File Format APIs for Word/Excel/PDF

Introduction

Ionic is a popular, open source, and cross-platform mobile app framework that is helpful in developing or building hybrid mobile apps quickly and easily. It will save you a lot of time and money.

This article demonstrates how to take a picture in a camera and save the picture's specific path in Ionic 3 using a native camera plugin. The following tools and requirements should be prepared before starting this article.

- Nodejs
- Latest Ionic 3 CLI
- Latest Cordova
- Node Command Line Window (Windows) or Terminal (OS X, Linux)
- Text Editor or IDE (e.g. Visual Studio Code, Atom,)

Once we've installed Node.js, we are able to install other tools on the terminal or command line. Run the following command.

Once the installation is finished, let's start creating an Ionic 3 app.

Create Ionic 3 app

Open your node.js terminal and open a specific location to create the Ionic 3 app. Start a new Ionic project using *ionic start* command.

ionic start myApp

This command will take a few minutes because it has installed all dependencies and modules in a project. Now, change the location to myApp.

cd myApp

Once we've changed the location of myApp, add an Android platform to your app.

ionic cordova platform add android
ionic cordova platform add browser(For Browser)

Now, run the project using the following command.

ionic serve (For Browser)
ionic cordova run android(For Device)

Make sure that you have connected the device and the settings have been set.

Now, let's start**.**

- *Camera*
  The Camera Plugin is used to take a picture and also capture a video.

- *File*
  Using the File Plugin, we can achieve the following -

  - Get the available free space
  - Check if the directory is available or not
  - Create a directory
  - Remove a directory
  - Move a directory from one place to another place,
  - Copy a directory
  - List an available directory
  - Set pre-defined path
  - Check if a file is available or not
  - Create a file
  - Remove a file
  - Write a file
  - Read a file as text
  - Read a file and return base64 data
  - Read a file and return data in a binary format
  - Read a file and return data in an array buffer format
  - Move and copy files
  - Get a directory or file etc.

Install and Configure Camera and File

Follow the below-mentioned steps.

Step1

Now, we have an Ionic app so we can move forward. First, install the camera plugin to our Ionic app using the following steps.

ionic cordova plugin add cordova-plugin-camera
npm install --save @ionic-native/camera

Now, install the file plugin to the Ionic app using the following steps.

ionic cordova plugin add cordova-plugin-file
npm install --save @ionic-native/file

Step 2

Here we have to basically access the camera and file system to our add Camera, class and File plugin to our app module file.

app.module.ts file

```
01.  //here importing lines for access camera object and file plugin to our app.
02.  import {
03.      Camera
04.  } from '@ionic-native/camera';
05.  import {
06.      File
07.  } from '@ionic-native/file';
08.  @NgModule({
09.      providers: [
10.          //here added class to our provider service block
11.          Camera,
12.          File
13.      ]
14.  })
15.  export class AppModule {}
```

Step 3

Now, it's time to integrate with a component in our app.

app.ts file

```
01.  import {
02.      Camera,
03.      CameraOptions
04.  } from '@ionic-native/camera';
05.  import {
06.      File
07.  } from '@ionic-native/file';
08.  //here injecting camera and file class to our component part as object
09.  constructor(private camera: Camera, private file: File) {}
12.          let base64ImageData;
13.          const options: CameraOptions = {
14.              //here is the picture quality in range 0-100 default value 50. Optional field
15.              quality: 100,
16.              /**here is the format of an output file.
17.               *destination type default is FILE_URI.
18.               * DATA_URL: 0 (number) - base64-encoded string,
19.               * FILE_URI: 1 (number)- Return image file URI,
20.               * NATIVE_URI: 2 (number)- Return image native URI
21.               */
22.              destinationType: this.camera.DestinationType.DATA_URL,
23.              /**here is the returned image file format
24.               *default format is JPEG
25.               * JPEG:0 (number),
26.               * PNG:1 (number),
27.               */
28.              encodingType: this.camera.EncodingType.JPEG,
29.              /** Only works when Picture Source Type is PHOTOLIBRARY or  SAVEDPHOTOALBUM.
30.               *PICTURE: 0 allow selection of still pictures only. (DEFAULT)
31.               *VIDEO: 1 allow selection of video only.
32.               */
33.              mediaType: this.camera.MediaType.PICTURE,
34.              /**here set the source of the picture
35.               *Default is CAMERA.
36.               *PHOTOLIBRARY : 0,
37.               *CAMERA : 1,
38.               *SAVEDPHOTOALBUM : 2
39.               */
40.              sourceType: this.camera.PictureSourceType.CAMERA
41.          }
42.          this.camera.getPicture(options).then((imageData) => {
43.              //here converting a normal image data to base64 image data.
44.              base64ImageData = 'data:image/jpeg;base64,' + imageData;
45.              /**here passing three arguments to method
46.               *Base64 Data
47.
48.               *Folder Name
49.
50.               *File Name
51.               */
52.              this.writeFile(base64ImageData, "My Picture", "sample.jpeg");
53.          }, (error) => {
54.              console.log(Error Occured: ' + error);
55.          });
56.      }
57.      //here is the method is used to write a file in storage
58.      public writeFile(base64Data: any, folderName: string, fileName: any) {
59.          let contentType = this.getContentType(base64Data);
60.          let DataBlob = this.base64toBlob(content, contentType);
61.          // here iam mentioned this line this.file.externalRootDirectory is a native pre-defined file path storage. You can change a file path whatever pre-defined method.
62.          let filePath = this.file.externalRootDirectory + folderName;
63.          this.file.writeFile(filePath, fileName, DataBlob, contentType).then((success) => {
64.              console.log("File Writed Successfully", success);
65.          }).catch((err) => {
66.              console.log("Error Occured While Writing File", err);
67.          })
68.      }
69.      //here is the method is used to get content type of an bas64 data
70.      public getContentType(base64Data: any) {
71.          let block = base64Data.split(";");
72.          let contentType = block[0].split(":")[1];
73.          return contentType;
74.      }
75.      //here is the method is used to convert base64 data to blob data
76.      public base64toBlob(b64Data, contentType) {
77.          contentType = contentType || '';
78.          sliceSize = 512;
79.          let byteCharacters = atob(b64Data);
80.          let byteArrays = [];
81.          for (let offset = 0; offset < byteCharacters.length; offset += sliceSize) {
82.              let slice = byteCharacters.slice(offset, offset + sliceSize);
83.              let byteNumbers = new Array(slice.length);
84.              for (let i = 0; i < slice.length; i++) {
85.                  byteNumbers[i] = slice.charCodeAt(i);
86.              }
87.              var byteArray = new Uint8Array(byteNumbers);
88.              byteArrays.push(byteArray);
89.          }
```

```
90.        let blob = new Blob(byteArrays, {
91.            type: contentType
92.        });
```

C# Corner

☰   Become a member   Login

Post ▾   Ask Question

Step 4

Calling the getPicture method.

```
01.   this.getPicture();
```

For further details, visit the official website.

- *Camera*
  https://ionicframework.com/docs/native/camera/

- *File Writing*
  https://ionicframework.com/docs/native/file/

- *File Location*
  Where to Store a file,
  https://github.com/apache/cordova-plugin-file#where-to-store-files

Summary

In this article, we discussed how to take a picture in a camera and save a picture's specific path in Ionic 3 using a native camera plugin.

If you have any questions/issues about this article, please let me know in the comments.

> Next Recommended Article
> ## How To Load Multiple Images Using Native Image Picker In Ionic 3

Ionic   Native Camera Plugin   Save Picture To Specific Path In Ionic 3

Muthu Kumar *TOP 1000*

Junior Software Developer @Hubfly. A professional 2+ years of Experience in Software Development (SharePoint, Angular 2/4/5/6/7/8, Ionic 2/3/4). It's kind of fun to do the impossible.

🏅 582   📘 132.8k   🤾   🎗 1

👍 8   💬 11

[Type your comment here and press Enter Key (Minimum 10 characters)]

I want to save image in ion-img to internal storage, it is possible to use that code?
Risto Kurniawan
• 1884 • 3 • 0
🕐 Dec 25, 2019   👍 0   ↩ 0   ⇦Reply

How to save csv file to desired loaction ionic 4
mahesh kumar
• 1885 • 2 • 0
🕐 Aug 21, 2019   👍 0   ↩ 1   ⇦Reply

Hi **mahesh kumar**, You can save any file using native file but path has been mentioned by default. For example check here, https://github.com/apache/cordova-plugin-file#where-to-store-files
Muthu Kumar
• 582 • 2.9k • 132.8k
🕐 Aug 22, 2019   👍 0

Getting this error please help
ravi patel
• 1884 • 3 • 0
🕐 Jul 26, 2019   👍 0   ↩ 0   ⇦Reply

The string to be decoded is not correctly encoded.Error: Failed to execute 'atob' on 'Window': The string to be decoded is not correctly encoded.
ravi patel
• 1884 • 3 • 0
🕐 Jul 26, 2019   👍 1   ↩ 3   ⇦Reply

I received same error, how to address this?
Michael Bevilacqua
• 1884 • 3 • 0
🕐 Aug 12, 2019   👍 0

Hi **ravi patel**, Sorry for delay. You need pass correct base 64 string to 'atob' method.
Muthu Kumar
• 582 • 2.9k • 132.8k
🕐 Aug 22, 2019   👍 0

Still issue exists, please follow this link this may help you. https://stackoverflow.com/questions/39490904/errorfailed-to-execute-atob-on-window-the-string-to-be-decoded-is-not-corr
Muthu Kumar
• 582 • 2.9k • 132.8k
🕐 Aug 22, 2019   👍 0

Thank You.
Harshitha P
• 1878 • 9 • 0
🕐 Dec 19, 2018   👍 0   ↩ 0   ⇦Reply

Sorry that's my mistake, you can change like this, let DataBlob = this.base64toBlob(base64Data, contentType);
Muthu Kumar
• 582 • 2.9k • 132.8k
🕐 Dec 13, 2018   👍 0   ↩ 0   ⇦Reply

What we need to pass in content to this method this.base64toBlob(content, contentType)
Harshitha P
• 1878 • 9 • 0
🕐 Dec 12, 2018   👍 0   ↩ 0   ⇦Reply

FEATURED ARTICLES

Let's Welcome Angular 9 With its New Features
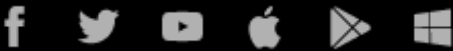
Don't Believe What You See

Understanding Low Code Development and Low Code Platforms

Angular 9 New Features

NSwagStudio - Generate C# Client Code Of ASP.NET Core Web API ☐

View All →

C# Corner

Angular 9 Is Av

Become a member   Login

Post ▼   Ask Question

TRENDING UP

01   ASP.NET Core MVC Request Life Cycle

02   Learn Angular 8 Step By Step In 10 Days - Route or Component Navigation - Day Ten

03   Let's Welcome Angular 9 With its New Features

04   RabbitMQ Service Bus Explained

05   Angular 8 - CRUD Operations - Part Three

06   Type of Filters in MVC Application and Why They're Important

07   Setup A Task Scheduler To Run Application Periodically In C#

08   Angular 8 - CRUD Operations - Part Two

09   Blazor - More Than Deluxe WebForms

10   Using ASP.NET Core 3.0 Identity With MySQL

View All →

About Us   Contact Us   Privacy Policy   Terms   Media Kit   Sitemap   Report a Bug   FAQ   Partners
C# Tutorials   Common Interview Questions   Stories   Consultants   Ideas   Certifications
©2020 C# Corner. All contents are copyright of their authors.