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Android Upload Image to Server using Volley Tutorial

October 21, 2015 by [Belal Khan](#) — [8 Comments](#)

Uploading images to our server is a very frequently used thing. In most of the apps, we need user avatar, i.e. user profile image. So here is Android Upload Image to Server Tutorial. In this post, we will see how we can upload images from our Android app to our server. Then we will also see how do we fetch the uploaded images back to our android application. So let's begin.

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Tools Required

- Xampp/Wamp as for the server end I am going to use PHP and MySQL.
- Android Studio, it is obvious that we need it for building our application

Creating Database and RESTful API

Database

Here, we will upload and store the image file to our server's directory, and in the database, we will save the path to the image with some tags for that picture. So the first thing here we need is the database.

- Go to **localhost/phpmyadmin** and create the following table names images in your database.

Database Table

- To create the above-given table, you can use the following SQL Query.

```
1 CREATE TABLE `images` (  
2   `id` int(11) NOT NULL PRIMARY KEY AUTO_INCREMENT,  
3   `image` varchar(500) NOT NULL,  
4   `tags` varchar(500) NOT NULL  
5 )
```

- Once you have the database table, you can start building the API.

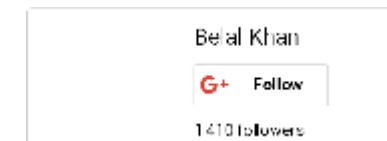
API

- Now create a folder inside **c:/xampp/htdocs** (the root directory if you are using xampp), you can name this folder anything. I have created a folder named **MyApi**.
- Inside the folder create a file named **api.php** and write the following php code.

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Hello I am Belal Khan, founder and owner of Simplified Coding. I am currently pursuing MCA from St. Xavier's College, Ranchi. I love to share my knowledge over Internet.

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```
3 //Constants for database connection
4 define('DB_HOST','localhost');
5 define('DB_USER','root');
6 define('DB_PASS','password');
7 define('DB_NAME','simplifiedcoding');
8
9 //We will upload files to this folder
10 //So one thing don't forget, also create a folder named uploads inside your project folder i.e.
11 define('UPLOAD_PATH', 'uploads/');
12
13 //connecting to database
14 $conn = new mysqli(DB_HOST,DB_USER,DB_PASS,DB_NAME) or die('Unable to connect');
15
16
17 //An array to display the response
18 $response = array();
19
20 //if the call is an api call
21 if(isset($_GET['apicall'])){
22
23 //switching the api call
24 switch($_GET['apicall']){
25
26 //if it is an upload call we will upload the image
27 case 'uploadpic':
28
29 //first confirming that we have the image and tags in the request parameter
30 if(isset($_FILES['pic']['name']) && isset($_POST['tags'])){
31
32 //uploading file and storing it to database as well
33 try{
34 move_uploaded_file($_FILES['pic']['tmp_name'], UPLOAD_PATH . $_FILES['pic']['name']);
35 $stmt = $conn->prepare("INSERT INTO images (image, tags) VALUES (?,?)");
36 $stmt->bind_param("ss", $_FILES['pic']['name'],$_POST['tags']);
37 if($stmt->execute()){
38 $response['error'] = false;
39 $response['message'] = 'File uploaded successfully';
40 }else{
```

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```
44 $response['error'] = true;
45 $response['message'] = 'Could not upload file';
46 }
47
48 }else{
49 $response['error'] = true;
50 $response['message'] = "Required params not available";
51 }
52
53 break;
54
55 //in this call we will fetch all the images
56 case 'getpics':
57
58 //getting server ip for building image url
59 $server_ip = gethostbyname(gethostname());
60
61 //query to get images from database
62 $stmt = $conn->prepare("SELECT id, image, tags FROM images");
63 $stmt->execute();
64 $stmt->bind_result($id, $image, $tags);
65
66 $images = array();
67
68 //fetching all the images from database
69 //and pushing it to array
70 while($stmt->fetch()){
71 $temp = array();
72 $temp['id'] = $id;
73 $temp['image'] = 'http://' . $server_ip . '/MyApi/'. UPLOAD_PATH . $image;
74 $temp['tags'] = $tags;
75
76 array_push($images, $temp);
77 }
78
79 //pushing the array in response
80 $response['error'] = false;
81 $response['images'] = $images;
82 break;
```

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```
86 $response['message'] = 'Invalid api call';
87 }
88
89 }else{
90 header("HTTP/1.0 404 Not Found");
91 echo "<h1>404 Not Found</h1>";
92 echo "The page that you have requested could not be found.";
93 exit();
94 }
95
96 //displaying the response in json
97 header('Content-Type: application/json');
98 echo json_encode($response);
```

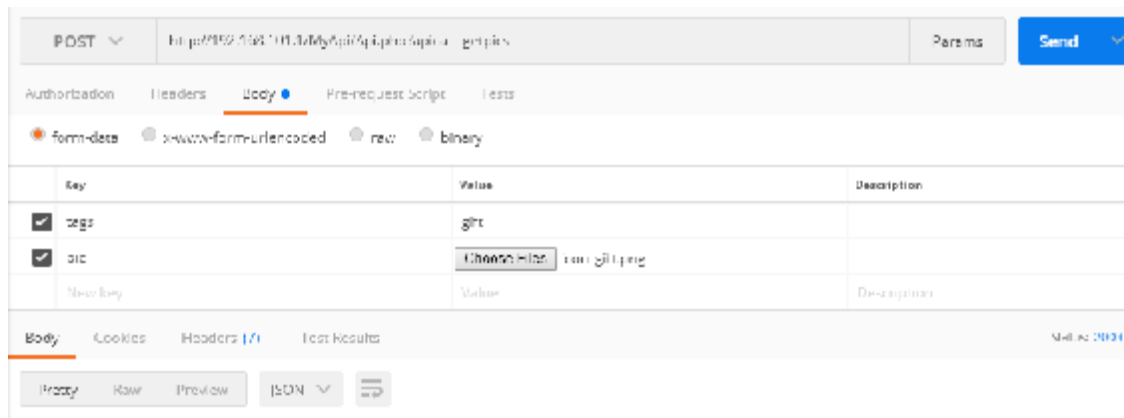
- Now we need to test the API.

Testing the API

- For testing our API I am here using POSTMAN, but you can use any tool you want.

Upload Image to Server API

- So, the upload call is perfect. Now let's test the fetch images call.



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- It is perfect as well. Now we can jump on Android Side.

Android Upload Image to Server using Volley

Creating an Android Project

- Now, we will create a new Android Studio project with an Empty Activity.
- As we are going to use Volley first, we will add it to the project.

Adding Volley

- Come inside dependencies block of app level build.gradle file and add volley here, as shown below.

```
1 dependencies {
2     compile fileTree(dir: 'libs', include: ['*.jar'])
3     androidTestCompile('com.android.support.test.espresso:espresso-core:2.2.2', {
4         exclude group: 'com.android.support', module: 'support-annotations'
5     })
6     compile 'com.android.support:appcompat-v7:26.+'
7     compile 'com.android.support.constraint:constraint-layout:1.0.2'
8
9     //adding volley library
10    compile 'com.android.volley:volley:1.1.0-rc1'
```

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- Now sync your project.

Adding Permissions

- We also need Internet and Read Storage permission. So inside **AndroidManifest.xml** add these permissions.

AndroidManifest.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3     package="net.simplifiedlearning.androiduploadimage">
4
5     <!-- adding permissions -->
6     <uses-permission android:name="android.permission.INTERNET" />
7     <uses-permission android:name="android.permission.READ_EXTERNAL_STORAGE" />
8
9     <application
10         android:allowBackup="true"
11         android:icon="@mipmap/ic_launcher"
12         android:label="@string/app_name"
13         android:roundIcon="@mipmap/ic_launcher_round"
14         android:supportsRtl="true"
15         android:theme="@style/AppTheme">
16         <activity android:name=".MainActivity">
17             <intent-filter>
18                 <action android:name="android.intent.action.MAIN" />
19
20                 <category android:name="android.intent.category.LAUNCHER" />
21             </intent-filter>
22         </activity>
23     </application>
24
25 </manifest>
```

User Interface

- Now come inside **activity_main.xml** and put the following xml code.

activity_main.xml

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context="net.simplifiedlearning.androiduploadimage.MainActivity">
8
9     <LinearLayout
10         android:layout_width="match_parent"
11         android:layout_height="wrap_content"
12         android:layout_centerVertical="true"
13         android:orientation="vertical">
14
15         <EditText
16             android:id="@+id/editTextTags"
17             android:hint="Enter tags"
18             android:layout_width="match_parent"
19             android:layout_height="wrap_content" />
20
21         <Button
22             android:id="@+id/buttonUploadImage"
23             android:layout_width="wrap_content"
```


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```
27
28     <ImageView
29         android:id="@+id/imageView"
30         android:layout_width="match_parent"
31         android:layout_height="wrap_content" />
32
33     </LinearLayout>
34
35 </RelativeLayout>
```

- The above code will generate the following layout.

Upload Image to Server Interface

- The layout is very simple, we have an EditText and a Button only.

Defining EndPoints

- We will create a separate class to store our URL Endpoints. **Remember using localhost will not work and you need to find the ip of your xampp. You can find the ip using ipconfig command in windows and ifconfig in linux/mac.**
- Create a class named **EndPoints** and write the following code here.

```
EndPoints.java Java
1 package net.simplifiedlearning.androiduploadimage;
2
3 /**
4  * Created by Belal on 10/24/2017.
5  */
6
7 public class EndPoints {
8     private static final String ROOT_URL = "http://192.168.101.1/MyApi/Api.php?apicall=";
9     public static final String UPLOAD_URL = ROOT_URL + "uploadpic";
10    public static final String GET_PICS_URL = ROOT_URL + "getpics";
11 }
```

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request directly. So that is why we need our Custom Volley Request. I found this code on [GitHub](#) and made little modifications. **I am thankful to the author for his contribution.**

- Create a class named **VolleyMultipartRequest** and write the following code.

VolleyMultipartRequest.java

Java

```
1 package net.simplifiedlearning.androiduploadimage;
2
3 import com.android.volley.AuthFailureError;
4 import com.android.volley.NetworkResponse;
5 import com.android.volley.ParseError;
6 import com.android.volley.Request;
7 import com.android.volley.Response;
8 import com.android.volley.VolleyError;
9 import com.android.volley.toolbox.HttpHeaderParser;
10
11 import java.io.ByteArrayInputStream;
12 import java.io.ByteArrayOutputStream;
13 import java.io.DataOutputStream;
14 import java.io.IOException;
15 import java.io.UnsupportedEncodingException;
16 import java.util.Map;
17
18 /**
19  * Created by Belal on 10/24/2017.
20  */
21
22 public class VolleyMultipartRequest extends Request<NetworkResponse> {
23
24     private final String twoHyphens = "--";
25     private final String lineEnd = "\r\n";
26     private final String boundary = "apiclient-" + System.currentTimeMillis();
27
28     private Response.Listener<NetworkResponse> mListener;
29     private Response.ErrorListener mErrorListener;
30     private Map<String, String> mHeaders;
31
32
33     public VolleyMultipartRequest(int method, String url,
```

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```
37         this.mListener = listener;
38         this.mErrorListener = errorListener;
39     }
40
41     @Override
42     public Map<String, String> getHeaders() throws AuthFailureError {
43         return (mHeaders != null) ? mHeaders : super.getHeaders();
44     }
45
46     @Override
47     public String getBodyContentType() {
48         return "multipart/form-data;boundary=" + boundary;
49     }
50
51     @Override
52     public byte[] getBody() throws AuthFailureError {
53         ByteArrayOutputStream bos = new ByteArrayOutputStream();
54         DataOutputStream dos = new DataOutputStream(bos);
55
56         try {
57             // populate text payload
58             Map<String, String> params = getParams();
59             if (params != null && params.size() > 0) {
60                 textParse(dos, params, getParamsEncoding());
61             }
62
63             // populate data byte payload
64             Map<String, DataPart> data = getByteData();
65             if (data != null && data.size() > 0) {
66                 dataParse(dos, data);
67             }
68
69             // close multipart form data after text and file data
70             dos.writeBytes(twoHyphens + boundary + twoHyphens + lineEnd);
71
72             return bos.toByteArray();
73         } catch (IOException e) {
74             e.printStackTrace();
75         }
```

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```
79  /**
80   * Custom method handle data payload.
81   *
82   * @return Map data part label with data byte
83   * @throws AuthFailureError
84   */
85  protected Map<String, DataPart> getByteData() throws AuthFailureError {
86      return null;
87  }
88
89  @Override
90  protected Response<NetworkResponse> parseNetworkResponse(NetworkResponse response) {
91      try {
92          return Response.success(
93              response,
94              HttpHeaderParser.parseCacheHeaders(response));
95      } catch (Exception e) {
96          return Response.error(new ParseError(e));
97      }
98  }
99
100  @Override
101  protected void deliverResponse(NetworkResponse response) {
102      mListener.onResponse(response);
103  }
104
105  @Override
106  public void deliverError(VolleyError error) {
107      mErrorListener.onErrorResponse(error);
108  }
109
110  /**
111   * Parse string map into data output stream by key and value.
112   *
113   * @param dataOutputStream data output stream handle string parsing
114   * @param params            string inputs collection
115   * @param encoding          encode the inputs, default UTF-8
116   * @throws IOException
117   */
```

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```
121         buildTextPart(dataOutputStream, entry.getKey(), entry.getValue());
122     }
123     } catch (UnsupportedEncodingException uee) {
124         throw new RuntimeException("Encoding not supported: " + encoding, uee);
125     }
126 }
127
128 /**
129  * Parse data into data output stream.
130  *
131  * @param dataOutputStream data output stream handle file attachment
132  * @param data              loop through data
133  * @throws IOException
134  */
135 private void dataParse(DataOutputStream dataOutputStream, Map<String, DataPart> data) throws
136     for (Map.Entry<String, DataPart> entry : data.entrySet()) {
137         buildDataPart(dataOutputStream, entry.getValue(), entry.getKey());
138     }
139 }
140
141 /**
142  * Write string data into header and data output stream.
143  *
144  * @param dataOutputStream data output stream handle string parsing
145  * @param parameterName    name of input
146  * @param parameterValue   value of input
147  * @throws IOException
148  */
149 private void buildTextPart(DataOutputStream dataOutputStream, String parameterName, String
150     dataOutputStream.writeBytes(twoHyphens + boundary + lineEnd);
151     dataOutputStream.writeBytes("Content-Disposition: form-data; name=\"" + parameterName +
152     dataOutputStream.writeBytes(lineEnd);
153     dataOutputStream.writeBytes(parameterValue + lineEnd);
154 }
155
156 /**
157  * Write data file into header and data output stream.
158  *
159  * @param dataOutputStream data output stream handle data parsing
```

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```
163     */
164     private void buildDataPart(DataOutputStream dataOutputStream, DataPart dataFile, String inputName) {
165         dataOutputStream.writeBytes(twoHyphens + boundary + lineEnd);
166         dataOutputStream.writeBytes("Content-Disposition: form-data; name=\"" +
167             inputName + "\"; filename=\"" + dataFile.getFileName() + "\"" + lineEnd);
168         if (dataFile.getType() != null && !dataFile.getType().trim().isEmpty()) {
169             dataOutputStream.writeBytes("Content-Type: " + dataFile.getType() + lineEnd);
170         }
171         dataOutputStream.writeBytes(lineEnd);
172
173         ByteArrayInputStream fileInputStream = new ByteArrayInputStream(dataFile.getContent());
174         int bytesAvailable = fileInputStream.available();
175
176         int maxBufferSize = 1024 * 1024;
177         int bufferSize = Math.min(bytesAvailable, maxBufferSize);
178         byte[] buffer = new byte[bufferSize];
179
180         int bytesRead = fileInputStream.read(buffer, 0, bufferSize);
181
182         while (bytesRead > 0) {
183             dataOutputStream.write(buffer, 0, bufferSize);
184             bytesAvailable = fileInputStream.available();
185             bufferSize = Math.min(bytesAvailable, maxBufferSize);
186             bytesRead = fileInputStream.read(buffer, 0, bufferSize);
187         }
188
189         dataOutputStream.writeBytes(lineEnd);
190     }
191
192     class DataPart {
193         private String fileName;
194         private byte[] content;
195         private String type;
196
197         public DataPart() {
198         }
199
200         DataPart(String name, byte[] data) {
201             fileName = name;
```

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```
205         String getFileName() {
206             return fileName;
207         }
208
209         byte[] getContent() {
210             return content;
211         }
212
213         String getType() {
214             return type;
215         }
216
217     }
218 }
```

Upload Image to Server

- Now the last thing is uploading the image, and we will do it inside **MainActivity.java**.

MainActivity.java

Java

```
1 package net.simplifiedlearning.androiduploadimage;
2
3 import android.Manifest;
4 import android.content.Intent;
5 import android.content.pm.PackageManager;
6 import android.graphics.Bitmap;
7 import android.net.Uri;
8 import android.os.Build;
9 import android.os.Bundle;
10 import android.provider.MediaStore;
11 import android.provider.Settings;
12 import android.support.v4.content.ContextCompat;
13 import android.support.v7.app.AppCompatActivity;
14 import android.view.View;
15 import android.widget.EditText;
16 import android.widget.ImageView;
17 import android.widget.Toast;
18
```

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```
22 import com.android.volley.Response;
23 import com.android.volley.VolleyError;
24 import com.android.volley.toolbox.Volley;
25
26 import org.json.JSONException;
27 import org.json.JSONObject;
28
29 import java.io.ByteArrayOutputStream;
30 import java.io.IOException;
31 import java.util.HashMap;
32 import java.util.Map;
33
34
35 public class MainActivity extends AppCompatActivity {
36
37     //ImageView to display image selected
38     ImageView imageView;
39
40     //edittext for getting the tags input
41     EditText editTextTags;
42
43     @Override
44     protected void onCreate(Bundle savedInstanceState) {
45         super.onCreate(savedInstanceState);
46         setContentView(R.layout.activity_main);
47
48         //initializing views
49         imageView = (ImageView) findViewById(R.id.imageView);
50         editTextTags = (EditText) findViewById(R.id.editTextTags);
51
52         //checking the permission
53         //if the permission is not given we will open setting to add permission
54         //else app will not open
55         if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.M && ContextCompat.checkSelfPermission(
56             Manifest.permission.READ_EXTERNAL_STORAGE)
57             != PackageManager.PERMISSION_GRANTED) {
58             Intent intent = new Intent(Settings.ACTION_APPLICATION_DETAILS_SETTINGS,
59                 Uri.parse("package:" + getPackageName()));
60             finish();
```


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```
64
65
66      //adding click listener to button
67      findViewById(R.id.buttonUploadImage).setOnClickListener(new View.OnClickListener() {
68          @Override
69          public void onClick(View view) {
70
71              //if the tags edittext is empty
72              //we will throw input error
73              if (editTextTags.getText().toString().trim().isEmpty()) {
74                  editTextTags.setError("Enter tags first");
75                  editTextTags.requestFocus();
76                  return;
77              }
78
79              //if everything is ok we will open image chooser
80              Intent i = new Intent(Intent.ACTION_PICK, MediaStore.Images.Media.EXTERNAL_CONTE
81              startActivityForResult(i, 100);
82          }
83      });
84  }
85
86  @Override
87  protected void onActivityResult(int requestCode, int resultCode, Intent data) {
88      super.onActivityResult(requestCode, resultCode, data);
89      if (requestCode == 100 && resultCode == RESULT_OK && data != null) {
90
91          //getting the image Uri
92          Uri imageUrl = data.getData();
93          try {
94              //getting bitmap object from uri
95              Bitmap bitmap = MediaStore.Images.Media.getBitmap(this.getContentResolver(), ima
96
97              //displaying selected image to imageview
98              imageView.setImageBitmap(bitmap);
99
100             //calling the method uploadBitmap to upload image
101             uploadBitmap(bitmap);
102         } catch (IOException e) {
```

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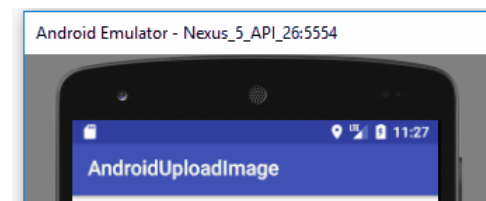
```
106     }
107
108     /*
109     * The method is taking Bitmap as an argument
110     * then it will return the byte[] array for the given bitmap
111     * and we will send this array to the server
112     * here we are using PNG Compression with 80% quality
113     * you can give quality between 0 to 100
114     * 0 means worse quality
115     * 100 means best quality
116     * */
117     public byte[] getFileDataFromDrawable(Bitmap bitmap) {
118         ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream();
119         bitmap.compress(Bitmap.CompressFormat.PNG, 80, byteArrayOutputStream);
120         return byteArrayOutputStream.toByteArray();
121     }
122
123     private void uploadBitmap(final Bitmap bitmap) {
124
125         //getting the tag from the edittext
126         final String tags = editTextTags.getText().toString().trim();
127
128         //our custom volley request
129         VolleyMultipartRequest volleyMultipartRequest = new VolleyMultipartRequest(Request.Method.POST,
130             new Response.Listener<NetworkResponse>() {
131                 @Override
132                 public void onResponse(NetworkResponse response) {
133                     try {
134                         JSONObject obj = new JSONObject(new String(response.data));
135                         Toast.makeText(getApplicationContext(), obj.getString("message"), Toast.LENGTH_SHORT).show();
136                     } catch (JSONException e) {
137                         e.printStackTrace();
138                     }
139                 }
140             },
141             new Response.ErrorListener() {
142                 @Override
143                 public void onErrorResponse(VolleyError error) {
144                     Toast.makeText(getApplicationContext(), error.getMessage(), Toast.LENGTH_SHORT).show();
145                 }
146             }
147         );
```

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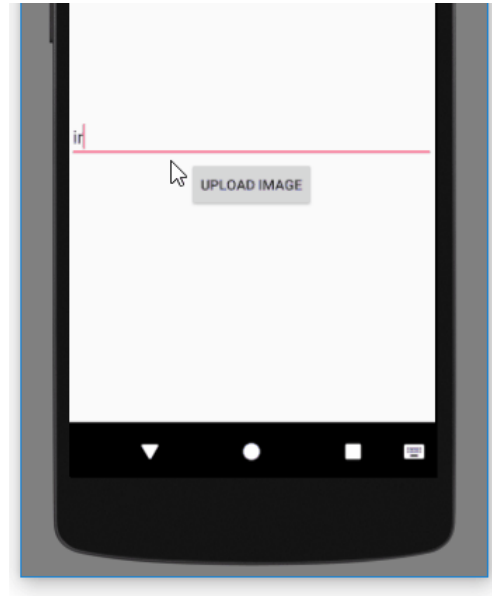
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```
148      /*
149      * If you want to add more parameters with the image
150      * you can do it here
151      * here we have only one parameter with the image
152      * which is tags
153      * */
154      @Override
155      protected Map<String, String> getParams() throws AuthFailureError {
156          Map<String, String> params = new HashMap<>();
157          params.put("tags", tags);
158          return params;
159      }
160
161      /*
162      * Here we are passing image by renaming it with a unique name
163      * */
164      @Override
165      protected Map<String, DataPart> getByteData() {
166          Map<String, DataPart> params = new HashMap<>();
167          long imagename = System.currentTimeMillis();
168          params.put("pic", new DataPart(imagename + ".png", getFileDataFromDrawable(bitmap)));
169          return params;
170      }
171  };
172
173      //adding the request to volley
174      Volley.newRequestQueue(this).add(volleyMultipartRequest);
175  }
176 }
```

- That's it now you can try running your application.



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Android Upload Image to Server

- So upload is working fine. Now the next step is fetching the uploaded images back.

Getting the Images Back to our Application

- We already created the API call to get all the uploaded images.

```
← → ↻ ⓘ localhost/MyApi/Api.php?apicall=getpics
1 // http://localhost/MyApi/Api.php?apicall=getpics
2
3
4 {
5   "error": false,
6   "images": [
7     {
8       "id": 2,
9       "image": "http://192.168.225.1/MyApi/uploads/icon_gift.png",
```

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```
13     "id": 3,  
14     "image": "http://192.168.225.1/MyApi/uploads/1508910774346.png",  
15     "tags": "spidy"  
16 },  
17 {  
18     "id": 4,  
19     "image": "http://192.168.225.1/MyApi/uploads/icon_gift.png",  
20     "tags": "gift"  
21 },  
22 {  
23     "id": 5,  
24     "image": "http://192.168.225.1/MyApi/uploads/1508911054989.png",  
25     "tags": "iron man"  
26 }  
27 ]  
28 }
```

- Now we can use this URL to get the images back. I have already posted a tutorial about this. So for this part you can visit the below tutorial.

[Building a RecyclerView with Images and Text](#)

Android Upload Image to Server Source Code

- If you are having any trouble following the post, then you can get my source code as well.

