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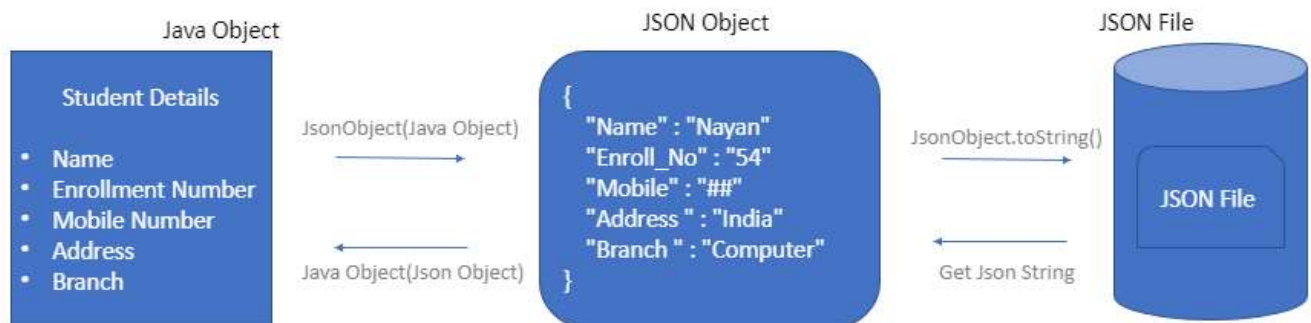
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# Android — How to Read and Write (Parse) data from JSON File ?

How to Insert, Update and Delete the data available in JSON File in Android ?



Android provides several ways of dealing with app data within the system or local storage. We are going to be dealing with app-specific storage of data in directory available in Internal or External Storage of system.

## App-specific Storage

- Internal Storage : Sensitive data, No other application access it.
- External Storage : Other application can access it like Images.

## What we are going to do ?

We will generate a JSON file, which will be stored in Internal storage of application. From android application user will add(**WRITE**) data, which will be converted into JSON format(JSON Object) and then stored in JSON file.



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We will also **UPDATE** the data from JSON file and save it back to JSON file.

We will also perform the **DELETION** operation on JSON file data/Objects.

### 1. Write Data into JSON File :-

**ADD DETAILS**

Name

Enrollment Number

Mobile Number

Address

Branch

SUBMIT

Get Data From Application

Data will be taken in terms of Java Object and transferred to JSON File.



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**Java-object** will be passed to **JsonObject**, which will convert the java object into **JsonObject** which means the value is now associated with a key because JSON works as Key-Value pairs.

```
JSONObject jsonObject = new JSONObject();
jsonObject.put("Name", Name);
jsonObject.put("Enroll_No", Enrollment Number);
jsonObject.put("Mobile", Mobile);
jsonObject.put("Address", Address);
jsonObject.put("Branch", Branch);
return jsonObject;
```

Now we will store this **JsonObject** to our **JSON File** available at **Internal Storage**, For this we need to **define the path** and then we will store the **JSON object** as a **String** into **.Json file**.

```
// Convert JsonObject to String Format
String userString = JsonObject.toString();

// Define the File Path and its Name
File file = new File(context.getFilesDir(), FILE_NAME);
FileWriter fileWriter = new FileWriter(file);
BufferedWriter bufferedWriter = new BufferedWriter(fileWriter);
bufferedWriter.write(userString);
bufferedWriter.close();
```

At this point, Data has entered into **JSON file**. How can I see where the data is transferred into **Android Studio** → **Device File Explorer**.



Context.getFilesDir will store into 'files' folder



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```
"Enroll_no": "160760120546",  
"Mobile": "8989898989",  
"Address": "Sahyog Socirty",  
"Branch": "EC"  
}
```

## 2. Read Data From JSON File :-

Now we have to access the data which is available in JSON file.

```
File file = new File(context.getFilesDir(), FILE_NAME);  
  
FileReader fileReader = new FileReader(file);  
BufferedReader bufferedReader = new BufferedReader(fileReader);  
StringBuilder stringBuilder = new StringBuilder();  
String line = bufferedReader.readLine();  
while (line != null) {  
    stringBuilder.append(line).append("\n");  
    line = bufferedReader.readLine();  
}  
bufferedReader.close();  
  
// This response will have Json Format String  
String response = stringBuilder.toString();
```

This response is available in String Json Format, but we have to access it in Java Object form so that we can apply it wherever we want in our application.

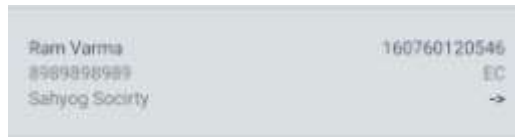
So we have to get the data available in response(String) using **Key** and **assign those value to our Java Object**.

```
JSONObject jsonObject = new JSONObject(response);  
  
//Java Object  
JsonObject javaObject =  
new JsonObject(jsonObject.getString("name"),  
    jsonObject.getString("enroll_no"),  
    jsonObject.getString("mobile"),  
    jsonObject.getString("address"),  
    jsonObject.getString("branch"));
```



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Now We can access this javaObject and have value which was stored in JSON file.



javaObject data displayed on List

### 3. Update and Delete the Data to JSON File :-

**Edit** the given data and **save** it to JSON File

Now This updated Java Object again perform **WRITE** operation(repeat step 1) on JSON file and **Edited data will be displayed** when we read(repeat step 2) the JSON object from file.

**DELETE** will remove the current object and perform the **step 1** and **step 2** procedure.

Now we can display the data whichever way we want ...



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Nayankumar Tala 8585858585 56, Hanuman Society ->	160266542236 computer ->
Ram Varma 8989898989 Sahyog Socirty ->	160760120546 EC ->
Rahul Vaghasiya 9856475956 Rajkot, Gujrat ->	160760105454 Electrical ->
Yashkumar Vaghasiya 8956231245 Yogichowk ->	160756985423 Computer ->
Abhishek Kapopara 8956231245 Mota Varschha ->	160895623456 Coputer ->
<a href="#">ADD</a>	

Java object data displayed in list format

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