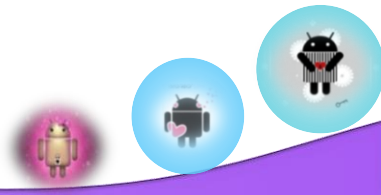




외부파일 입출력



프로젝트 생성

2



Application name: **FileIOtest**

Company Domain: **admid.example.com**

Project location: **C:\Android\StdWork\fileiotest**

Target Android Devices

- **Phone and Tablet**
- **Minimun SDK API 18**

Add an activity to Mobile : **Empty Activity**

Customize the Activity

Activity Name: **MainActivity**

Layout Name: **activity_main**



activity_main.xml x

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     android:layout_width="match_parent"
4     android:layout_height="match_parent"
5     android:orientation="vertical">
6     <LinearLayout
7         android:id="@+id/LinearLayout02"
8         android:layout_width="match_parent"
9         android:layout_height="match_parent"
10        android:layout_weight="1">
11        <EditText
12            android:id="@+id/EditText01"
13            android:layout_width="match_parent"
14            android:layout_height="match_parent"
15            android:singleLine="false" />
16        </LinearLayout>
17        <LinearLayout
18            android:id="@+id/LinearLayout03"
19            android:layout_width="wrap_content"
20            android:layout_height="wrap_content">
21            <Button
22                android:id="@+id/read"
23                android:layout_width="wrap_content"
24                android:layout_height="wrap_content"
25                android:text="읽기" />
26            <Button
27                android:id="@+id/write"
28                android:layout_width="wrap_content"
29                android:layout_height="wrap_content"
30                android:text="쓰기" />
31        </LinearLayout>
32    </LinearLayout>
```

화면설계



MainActivity.java x

```
1 package com.example.admin.fileiotest;
2
3 import android.os.Bundle;
4 import android.os.Environment;
5 import android.support.v7.app.AppCompatActivity;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9 import android.widget.Toast;
10
11 import java.io.BufferedReader;
12 import java.io.File;
13 import java.io.FileReader;
14 import java.io.FileWriter;
15 import java.io.PrintWriter;
16
17 public class MainActivity extends AppCompatActivity {
```

추후 import 확인

MainActivity.java x

```
16
17 public class MainActivity extends AppCompatActivity {
18     EditText edit;
19     File file;
20     File path;
21
22     @Override
23     protected void onCreate(Bundle savedInstanceState) {
24         super.onCreate(savedInstanceState);
25         setContentView(R.layout.activity_main);
26         path = Environment.getExternalStoragePublicDirectory(
27             Environment.DIRECTORY_DOWNLOADS);
28         file = new File(path, "test.txt");
29
30         String state = Environment.getExternalStorageState();
31         if (state.equals(Environment.MEDIA_MOUNTED) == false) {
32             Toast.makeText(getApplicationContext(), "외부 스토리지 실패",
33                 Toast.LENGTH_SHORT).show();
34         }
35         edit = (EditText) findViewById(R.id.EditText01);
36         final Button readButton = (Button) findViewById(R.id.read);
37         Button writeButton = (Button) findViewById(R.id.write);
38     }
```

외부 파일 경로

외부 파일 경로에 문제가 없는가?

MainActivity.java x

```
37 Button writeButton = (Button) findViewById(R.id.write);
38
39 readButton.setOnClickListener(new View.OnClickListener() {
40     public void onClick(View v) {
41         try {
42             FileReader in = new FileReader(file);
43             StringBuffer buffer = new StringBuffer();
44             BufferedReader reader = new BufferedReader(in);
45
46             String str = reader.readLine();
47             while (str != null) {
48                 buffer.append(str + "\n");
49                 str = reader.readLine();
50             }
51             edit.setText(new String(buffer));
52             reader.close();
53             Toast.makeText(getApplicationContext(), "Read",
54                 Toast.LENGTH_LONG).show();
55         } catch (Exception e) {
56             e.printStackTrace();
57             Toast.makeText(getApplicationContext(), "Read Field",
58                 Toast.LENGTH_LONG).show();
59         }
60     }
61 });
```

읽어온 파일에 내용이
없을 때까지 반복

MainActivity.java x

```
62
63
64 writeButton.setOnClickListener(new View.OnClickListener() {
65     public void onClick(View v) {
66         try {
67             FileWriter wr = new FileWriter(file, false);
68             PrintWriter writer = new PrintWriter(wr);
69             writer.print(edit.getText().toString());
70             writer.close();
71             Toast.makeText(getApplicationContext(), "Write",
72                 Toast.LENGTH_LONG).show();
73         } catch (Exception e) {
74             e.printStackTrace();
75             Toast.makeText(getApplicationContext(), "Write Field",
76                 Toast.LENGTH_LONG).show();
77         }
78     }
79 });
80 }
81
82
```

에디트 텍스트
의 내용을 파일
에 출력

FileWriter(file, true) ← "true"명 기존 파일에 추가 허용


```
AndroidManifest.xml x
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.admin.fileiotest">

    <uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="FileIOtest"
        android:supportRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

외부 저장매체 사용 권한

