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Android - Shared Preferences

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Previous Page Next Page **⊙** Android provides many ways of storing data of an application. One of this way is called Shared Preferences. Shared Preferences allow you to save and

retrieve data in the form of key, value pair. In order to use shared preferences, you have to call a method getSharedPreferences() that returns a SharedPreference instance pointing to

the file that contains the values of preferences. SharedPreferences sharedpreferences = getSharedPreferences(MyPREFERENCES, Context.MODE_PRIV

The first parameter is the key and the second parameter is the MODE. Apart from private there are other modes available that are listed below -**Mode & description** MODE_APPEND

Sr.No 1 This will append the new preferences with the already existing preferences

2 MODE_ENABLE_WRITE_AHEAD_LOGGING Database open flag. When it is set , it would enable write ahead logging by default 3 MODE_MULTI_PROCESS

This method will check for modification of preferences even if the sharedpreference instance has already been loaded **MODE_PRIVATE** By setting this mode, the file can only be accessed using calling application 5

in the sharedpreferences

SharedPreferences.Editor class. You will call the edit method of

SharedPreference instance and will receive it in an editor object. Its syntax is

by using

MODE_WORLD_READABLE Android - Event Handling This mode allow other application to read the preferences Android - Styles and Themes 6 Android - Custom Components MODE_WORLD_WRITEABLE This mode allow other application to write the preferences Android Advanced Concepts

save

something

Android - Sending Email Editor editor = sharedpreferences.edit(); Android - Sending SMS editor.putString("key", "value"); editor.commit(); Android - Phone Calls Apart from the putString method, there are methods available in the editor

Publishing Android Application class that allows manipulation of data inside shared preferences. They are listed as follows -Android Useful Examples **Mode & description** Sr. Android - Alert Dialoges NO

Android - Animations 1 apply() Android - Audio Capture It is an abstract method. It will commit your changes back from editor to the sharedPreference object you are calling Android - AudioManager

2

5

6

Steps

3

clear()

Android - Camera 3 remove(String key) Android - Clipboard It will remove the value whose key has been passed as a parameter Android - Custom Fonts 4 putLong(String key, long value) Android - Data Backup It will save a long value in a preference editor Android - Developer Tools

putInt(String key, int value)

putFloat(String key, float value)

closed and brought back when it is opened again.

spinning progress dialog.

import android.widget.Toast;

EditText ed1,ed2,ed3;

Button b1;

It will save a integer value in a preference editor

It will save a float value in a preference editor

after developing the application according to the steps below -

It will remove all values from the editor

Example This example demonstrates the use of the Shared Preferences. It display a screen with some text fields, whose value are saved when the application is

To experiment with this example, you need to run this on an actual device on

Description

You will use Android studio to create an Android application under a 1 package com.example.sairamkrishna.myapplication. 2 Modify src/MainActivity.java file to add progress code to display the

Run the application and choose a running android device and install the 4 application on it and verify the results. Following is the content of the modified **MainActivity.java**. package com.example.sairamkrishna.myapplication; import android.content.Context; import android.content.SharedPreferences; import android.os.Bundle; import android.support.v7.app.AppCompatActivity; import android.view.View; import android.widget.Button; import android.widget.EditText;

Modify res/layout/activity_main.xml file to add respective XML code.

public static final String MyPREFERENCES = "MyPrefs"; public static final String Name = "nameKey"; public static final String Phone = "phoneKey";

public class MainActivity extends AppCompatActivity {

public static final String Email = "emailKey";

SharedPreferences sharedpreferences; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); ed1=(EditText)findViewById(R.id.editText); ed2=(EditText)findViewById(R.id.editText2); ed3=(EditText)findViewById(R.id.editText3); b1=(Button)findViewById(R.id.button); sharedpreferences = getSharedPreferences(MyPREFERENCES, Context.MODE_PRIVATE); b1.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { String n = ed1.getText().toString(); String ph = ed2.getText().toString(); String e = ed3.getText().toString(); SharedPreferences.Editor editor = sharedpreferences.edit(); editor.putString(Name, n); editor.putString(Phone, ph); editor.putString(Email, e); editor.commit(); Toast.makeText(MainActivity.this, "Thanks", Toast.LENGTH_LONG).show(); }); modified Following is the content of the main activity fileres/layout/activiy_main.xml. <?xml version="1.0" encoding="utf-8"?> <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre> xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent android:layout height="match parent" android:paddingLeft="@dimen/activity horizor android:paddingRight="@dimen/activity_horizontal_margin" android:paddingTop="@dimen/activity_vertical_margin" android:paddingBottom="@dimen/activity_vertical_margin" tools:context=".MainActiv <TextView android:layout_width="wrap_content"

android:layout_width="wrap_content" android:layout_height="wrap_content" android:text="Tutorials Point" android:id="@+id/textView2" android:layout_below="@+id/textView"

android:layout_height="wrap_content"

android:layout_alignParentTop="true" android:layout_centerHorizontal="true"

android:layout_centerHorizontal="true"

android:textColor="#ff16ff01" />

android:text="Shared Preference "

android:id="@+id/textView"

android:textSize="35dp" />

android:textSize="35dp"

<TextView

<EditText android:layout_width="wrap_content" android:layout height="wrap content" android:id="@+id/editText" android:layout_below="@+id/textView2" android:layout_marginTop="67dp" android:hint="Name" android:layout_alignParentRight="true" android:layout_alignParentEnd="true" android:layout_alignParentLeft="true" android:layout_alignParentStart="true" /> <EditText android:layout_width="wrap_content" android:layout height="wrap content" android:id="@+id/editText2" android:layout_below="@+id/editText" android:layout_alignParentLeft="true" android:layout_alignParentStart="true" android:layout_alignParentRight="true" android:layout alignParentEnd="true" android:hint="Pass" /> <EditText android:layout_width="wrap_content" android:layout_height="wrap_content" android:id="@+id/editText3" android:layout_below="@+id/editText2" android:layout_alignParentLeft="true" android:layout_alignParentStart="true" android:layout_alignParentRight="true" android:layout_alignParentEnd="true" android:hint="Email" /> <**Button** android:layout width="wrap content" android:layout_height="wrap_content" android:text="Save" android:id="@+id/button" android:layout_below="@+id/editText3" android:layout_centerHorizontal="true" android:layout_marginTop="50dp" /> </RelativeLayout> file modified Following is the content of the content of res/values/strings.xml. <resources> <string name="app_name">My Application</string> </resources> Following is the content default file **AndroidManifest.xml.** <?xml version="1.0" encoding="utf-8"?>

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

Let's try to run your application. I assume you have connected your actual

Android Mobile device with your computer. To run the app from Android studio,

open one of your project's activity files and click Run () icon from the toolbar.

Before starting your application, Android studio will display following window

to select an option where you want to run your Android application.

<action android:name="android.intent.action.MAIN" />

<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>

package="com.example.sairamkrishna.myapplication" >

<application</pre>

<activity

</application>

</manifest>

android:allowBackup="true"

<intent-filter>

which will display following screen -

android:icon="@mipmap/ic_launcher" android:label="@string/app_name" android:theme="@style/AppTheme" >

android:name=".MainActivity"

android:label="@string/app_name" >

Choose Device Choose a running device Device Serial Number State Com... Emulator Nexus 5 API 21 x86 Android 5.0.2 (emulator-5554 Online Yes Iris Iris405+ Android 4.2.2 (API 17) 0123456789ABCDEF Online Yes <u>L</u>aunch emulator Nexus 5 API 21 x86 Android virtual device: Use same device for future launches Cancel Select your mobile device as an option and then check your mobile device

information and click on save button.

36 7 3:57

Now just put in some text in the field. Like i put some random name and other

My Application **Shared Preference Tutorials Point** abc 123 qsd@abc.com SAVE 0 0 preferences. Now press back button and exit the application. Now open it again and you will see all the text you have written hack in your application

Now when you press save button, the text will be saved in the shared

* 0 0 0	3 3 0 0 0 0 0 W V Y	Name	Size Date	Time	Permissions II	nfo
Nexus_5_APL; Online com.andrc 1473 com.andrc 2179 android.pr 1349 com.andrc 1927 com.goog 1800 com.andrc 1995 com.goog 1741 android.pr 1555 com.andrc 2067 com.svax. 2200 system_pr 1241 com.andrc 1497 com.andrc 1497 com.andrc 1949 com.andrc 1949 com.andrc 1949 com.andrc 1949 com.andrc 1989 com.andrc 2083 com.andrc 2083 com.andrc 1316 com.andrc 1316 com.andrc 1577 com.andrc 1577 com.andrc 1577 com.andrc 1714 com.goog 1588	Nexus_5 8600 8601 8602 8603 8604 8605 8606 8607 8608 8609 8610 8611 8612 8613 8614 8615 8616 8617 8618 8619 8616 8617 8618	Name	2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-03-30 2015-04-02 2015-04-02 2015-04-02 2015-04-02 2015-04-02 2015-04-07 197 2015-04-07 124 2015-04-07	1439 1439 1439 1439 1439 1439 1439 1439	drwor-xx	> /data/a

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