Activity進階功能

1. 請參考投影片內容，建立以下的Android應用程式

並請將1.**建立過程**; 2.程式**執行結果**截圖; 2.程式**原始檔 copy&paste**置入作業中

1. 請參考範例
   1. 建立Menu,請在程式中直接建立
      * Menu的選項有 1.銘傳網頁, 點選後開啟銘傳的網頁
      * 2.關於這個程式, 點選後會跳出AlertDialog顯示相關資訊
      * 3.結束
   2. 建立Context Menu,請使用xml檔案的方式建立
      * Menu的選項有 1.銘傳網頁, 點選後開啟銘傳的網頁
      * 2.關於這個程式, 點選後會跳出AlertDialog顯示相關資訊
      * 3.結束

一張含有 螢幕擷取畫面, 電腦, 膝上型電腦, 監視器 的圖片

自動產生的描述

**package** com.contextmenu;  
  
**import** android.app.AlertDialog;  
**import** android.content.DialogInterface;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.ContextMenu;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.SubMenu;  
**import** android.view.View;  
**import** android.widget.RelativeLayout;  
**import** android.widget.TextView;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **private static final int *MENU\_MCU*** = Menu.***FIRST***,  
 ***MENU\_PLAY\_MUSIC*** = Menu.***FIRST*** + 1,  
 ***MENU\_STOP\_PLAYING\_MUSIC*** = Menu.***FIRST*** + 2,  
 ***MENU\_ABOUT*** = Menu.***FIRST*** + 3,  
 ***MENU\_EXIT*** = Menu.***FIRST*** + 4;  
  
 **private** RelativeLayout **mRelativeLayout**;  
 **private** TextView **mTxtView**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **mRelativeLayout** = (RelativeLayout) findViewById(R.id.***relativeLayout***);  
 registerForContextMenu(**mRelativeLayout**);  
 **mTxtView** = (TextView) findViewById(R.id.***txtView***);  
 registerForContextMenu(**mTxtView**);  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 SubMenu subMenu = menu.addSubMenu(0, ***MENU\_MCU***, 0, **"銘傳網頁"**)  
 .setIcon(android.R.drawable.***ic\_media\_ff***);  
 */\* subMenu.add(0, MENU\_PLAY\_MUSIC, 0, "播放背景音樂");  
 subMenu.add(0, MENU\_STOP\_PLAYING\_MUSIC, 1, "停止播放背景音樂");\*/* menu.add(0, ***MENU\_ABOUT***, 1, **"關於這個程式..."**)  
 .setIcon(android.R.drawable.***ic\_dialog\_info***);  
 menu.add(0, ***MENU\_EXIT***, 2, **"結束"**)  
 .setIcon(android.R.drawable.***ic\_menu\_close\_clear\_cancel***);  
  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId()) {  
 **case *MENU\_MCU***:  
 Uri uri = Uri.*parse*(**"https://www.mcu.edu.tw/"**);  
 Intent it = **new** Intent(Intent.***ACTION\_VIEW***, uri);  
 startActivity(it);  
 **return true**;  
 **case *MENU\_STOP\_PLAYING\_MUSIC***:  
 it = **new** Intent(MainActivity.**this**, MediaPlayService.**class**);  
 stopService(it);  
 **return true**;  
 **case *MENU\_ABOUT***:  
 **new** AlertDialog.Builder(MainActivity.**this**)  
 .setTitle(**"關於這個程式"**)  
 .setMessage(**"選單範例程式"**)  
 .setCancelable(**false**)  
 .setIcon(android.R.drawable.***star\_big\_on***)  
 .setPositiveButton(**"確定"**,  
 **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 *//* ***TODO Auto-generated method stub*** }  
 })  
 .show();  
  
 **return true**;  
 **case *MENU\_EXIT***:  
 finish();  
 **return true**;  
 }  
  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 @Override  
 **public void** onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {  
 **super**.onCreateContextMenu(menu, v, menuInfo);  
  
 **if** (v == **mRelativeLayout**) {  
 **if** (menu.size() == 0) {  
 SubMenu subMenu = menu.addSubMenu(0, ***MENU\_MCU***, 0, **"銘傳網頁"**);  
 */\* subMenu.add(0, MENU\_PLAY\_MUSIC, 0, "播放背景音樂");  
 subMenu.add(0, MENU\_STOP\_PLAYING\_MUSIC, 1, "停止播放背景音樂");\*/* menu.add(0, ***MENU\_ABOUT***, 1, **"關於這個程式..."**);  
 menu.add(0, ***MENU\_EXIT***, 2, **"結束"**);  
 }  
 }  
 **else if** (v == **mTxtView**) {  
 menu.add(0, ***MENU\_ABOUT***, 1, **"關於這個程式..."**);  
 }  
 }  
  
 @Override  
 **public boolean** onContextItemSelected(MenuItem item) {  
 onOptionsItemSelected(item);  
 **return super**.onContextItemSelected(item);  
 }  
}

1. 請參考範例
   * + 基於上一題,在ActionBar上加入功能選項
       1. 如果ActionBar還有空間,加入關於這個程式, 點選後會跳出AlertDialog顯示相關資訊
       2. 如果ActionBar還有空間,加入關於這個程式

一張含有 螢幕擷取畫面, 監視器, 電腦, 螢幕 的圖片

自動產生的描述

**package** com.actionitemandactionview;  
  
**import** android.app.AlertDialog;  
**import** android.content.DialogInterface;  
**import** android.content.Intent;  
**import** android.graphics.drawable.ColorDrawable;  
**import** android.net.Uri;  
**import** android.support.v7.app.ActionBar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.ContextMenu;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.SubMenu;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.RelativeLayout;  
**import** android.widget.SearchView;  
**import** android.widget.Spinner;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 **private** RelativeLayout **mRelativeLayout**;  
 **private** TextView **mTxtView**;  
  
 **private static final int *MENU\_MCU*** = Menu.***FIRST***,  
 ***MENU\_PLAY\_MUSIC*** = Menu.***FIRST*** + 1,  
 ***MENU\_STOP\_PLAYING\_MUSIC*** = Menu.***FIRST*** + 2,  
 ***MENU\_ABOUT*** = Menu.***FIRST*** + 3,  
 ***MENU\_EXIT*** = Menu.***FIRST*** + 4;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
  
 **mRelativeLayout** = (RelativeLayout) findViewById(R.id.***relativeLayout***);  
 registerForContextMenu(**mRelativeLayout**);  
 **mTxtView** = (TextView) findViewById(R.id.***txtView***);  
 registerForContextMenu(**mTxtView**);  
  
 ActionBar actBar = getSupportActionBar();  
 actBar.setDisplayShowTitleEnabled(**false**);  
 actBar.setLogo(R.drawable.***app\_logo***);  
 actBar.setDisplayUseLogoEnabled(**true**);  
 actBar.setDisplayShowHomeEnabled(**true**);  
 actBar.setBackgroundDrawable(**new** ColorDrawable(0xFF505050));  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
  
 SubMenu subMenu = menu.addSubMenu(0, ***MENU\_MCU***, 0, **"銘傳網頁"**)  
 .setIcon(android.R.drawable.***ic\_media\_ff***);  
 */\* subMenu.add(0, MENU\_PLAY\_MUSIC, 0, "播放背景音樂");  
 subMenu.add(0, MENU\_STOP\_PLAYING\_MUSIC, 1, "停止播放背景音樂");\*/* menu.add(0, ***MENU\_ABOUT***, 1, **"關於這個程式..."**)  
 .setIcon(android.R.drawable.***ic\_dialog\_info***);  
 menu.add(0, ***MENU\_EXIT***, 2, **"結束"**)  
 .setIcon(android.R.drawable.***ic\_menu\_close\_clear\_cancel***);  
  
  
 getMenuInflater().inflate(R.menu.***menu\_main***, menu);  
  
 *// 設定 action views* Spinner spnRegion = (Spinner)  
 menu.findItem(R.id.***menuItemRegion***).getActionView()  
 .findViewById(R.id.***spnRegion***);  
 ArrayAdapter<CharSequence> adapRegionList = ArrayAdapter.*createFromResource*(  
 **this**, R.array.***spnRegionList***, android.R.layout.***simple\_spinner\_item***);  
 spnRegion.setAdapter(adapRegionList);  
 spnRegion.setOnItemSelectedListener(**spnRegionOnItemSelected**);  
  
 SearchView searchView = (SearchView)  
 menu.findItem(R.id.***menuItemSearch***).getActionView();  
 searchView.setOnQueryTextListener(**searchViewOnQueryTextLis**);  
  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId()) {  
 **case *MENU\_PLAY\_MUSIC***:  
 Uri uri = Uri.*parse*(**"https://www.mcu.edu.tw/"**);  
 Intent it = **new** Intent(Intent.***ACTION\_VIEW***, uri);  
 startActivity(it);  
 **case *MENU\_STOP\_PLAYING\_MUSIC***:  
 it = **new** Intent(MainActivity.**this**, MediaPlayService.**class**);  
 stopService(it);  
 **return true**;  
 **case *MENU\_ABOUT***:  
 **new** AlertDialog.Builder(MainActivity.**this**)  
 .setTitle(**"關於這個程式"**)  
 .setMessage(**"選單範例程式"**)  
 .setCancelable(**false**)  
 .setIcon(android.R.drawable.***star\_big\_on***)  
 .setPositiveButton(**"確定"**,  
 **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 }  
 })  
 .show();  
  
 **return true**;  
 **case *MENU\_EXIT***:  
 finish();  
 **return true**;  
 **case** R.id.***menuItemRegion***:  
 **new** AlertDialog.Builder(MainActivity.**this**)  
 .setTitle(**"選擇地區"**)  
 .setMessage(**"這是選擇地區對話盒"**)  
 .setCancelable(**false**)  
 .setIcon(android.R.drawable.***star\_big\_on***)  
 .setPositiveButton(**"確定"**,  
 **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 }  
 })  
 .show();  
  
 **return true**;  
 **case** R.id.***menuItemSearch***:  
 **new** AlertDialog.Builder(MainActivity.**this**)  
 .setTitle(**"搜尋"**)  
 .setMessage(**"這是搜尋對話盒"**)  
 .setCancelable(**false**)  
 .setIcon(android.R.drawable.***star\_big\_on***)  
 .setPositiveButton(**"確定"**,  
 **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 }  
 })  
 .show();  
  
 **return true**;  
 }  
  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 **private** Spinner.OnItemSelectedListener **spnRegionOnItemSelected** =  
 **new** Spinner.OnItemSelectedListener () {  
 **public void** onItemSelected(AdapterView parent,  
 View v,  
 **int** position,  
 **long** id) {*/\*  
 Toast.makeText(MainActivity.this, parent.getSelectedItem().toString(),  
 Toast.LENGTH\_LONG).show();\*/* Uri uri = Uri.*parse*(**"https://www.mcu.edu.tw/"**);  
 Intent it = **new** Intent(Intent.***ACTION\_VIEW***, uri);  
 startActivity(it);  
 }  
 **public void** onNothingSelected(AdapterView parent) {  
 }  
 };  
  
 **private** SearchView.OnQueryTextListener **searchViewOnQueryTextLis** = **new** SearchView.OnQueryTextListener() {  
  
 @Override  
 **public boolean** onQueryTextChange(String newText) {  
 **return false**;  
 }  
  
 @Override  
 **public boolean** onQueryTextSubmit(String query) {  
 Toast.*makeText*(MainActivity.**this**, query, Toast.***LENGTH\_LONG***).show();  
  
 **return true**;  
 }  
 };  
 @Override  
 **public void** onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {  
 **super**.onCreateContextMenu(menu, v, menuInfo);  
  
 **if** (v == **mRelativeLayout**) {  
 **if** (menu.size() == 0) {  
 SubMenu subMenu = menu.addSubMenu(0, ***MENU\_MCU***, 0, **"銘傳網頁"**);  
 */\* subMenu.add(0, MENU\_PLAY\_MUSIC, 0, "播放背景音樂");  
 subMenu.add(0, MENU\_STOP\_PLAYING\_MUSIC, 1, "停止播放背景音樂");\*/* menu.add(0, ***MENU\_ABOUT***, 1, **"關於這個程式..."**);  
 menu.add(0, ***MENU\_EXIT***, 2, **"結束"**);  
 }  
 }  
 **else if** (v == **mTxtView**) {  
 menu.add(0, ***MENU\_ABOUT***, 1, **"關於這個程式..."**);  
 }  
 }  
  
 @Override  
 **public boolean** onContextItemSelected(MenuItem item) {  
 onOptionsItemSelected(item);  
 **return super**.onContextItemSelected(item);  
 }  
  
}