

IT2417 - Mobile Applications Development

Lab Session 07



Lab1. List View

1. Start a new project with blank activity
2. Add a list view to your app interface by changing the activity_main.xml as with given code

```
<ListView  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/listView1"  
    android:layout_centerVertical="true"  
    android:layout_alignParentEnd="true"  
    android:layout_marginEnd="147dp" />
```

3. Do the following changes in MainActivity.java file

```
import android.app.Activity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.AdapterView;  
import android.widget.ArrayAdapter;  
import android.widget.ListView;  
  
public class MainActivity extends Activity  
{  
    String[] CourseArray = {"HNDA", "HNDM", "HNDE", "HNDIT", "HNDTHM", "HMDPM"};  
    @Override  
    protected void onCreate(Bundle savedInstanceState)  
    {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
  
        ArrayAdapter adapter = new ArrayAdapter(this,  
        android.R.layout.simple_dropdown_item_1line, CourseArray);  
        ListView CourseListView = (ListView) findViewById(R.id.listView1);  
        CourseListView.setAdapter(adapter);  
    }  
}
```

4. Build and run the app

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Lab2. List View click event

1. Change the MainActivity.java with given code

```
import android.app.Activity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends Activity
{
    String[] CourseArray = {"HNDA", "HNDM", "HNDL", "HNDIT", "HNDTHM", "HMDPM"};
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        ArrayAdapter adapter = new ArrayAdapter(this,
        android.R.layout.simple_dropdown_item_1line, CourseArray);
        ListView CourseListView = (ListView) findViewById(R.id.listView1);
        CourseListView.setAdapter(adapter);
        CourseListView.setOnItemClickListener(new AdapterView.OnItemClickListener()
        {
            @Override
            public void onItemClick(AdapterView parent, View view, int position, long id)
            {
                String item = ((TextView) view).getText().toString();
                Toast.makeText(getApplicationContext(), item, Toast.LENGTH_LONG).show();
            }
        });
    }
}
```