Agenda

- imageview
- simple spinner
- Toast
- snackbar
- Intent and types
    - Implicit
    - Explicit
- Intent Filter
- Navigation using intent
- Activity Life cycle in intents
- Context
- Data Sharing using intent

imageView (App1)

```
<ImageView
       android:src="@drawable/ic_launcher_background"
       android:layout_width="100dp"
       android:layout_height="100dp"/>
```

- Cretae UI where we are using multiple layouts.
- Use root element as Linear layout which is going to be vertically oriented
- withinh this layout use relative and one more linear layout.
- Relative layout we are using for checkbox while the linear for the image views to align horizontally
- fetch all the objects into java file and implement the onclick listner for the button

```
public void onClick(View v) {
  if(checkboxCPP.isChecked())
       imageCPP.setImageResource(R.drawable.cpp);
    else
       imageCPP.setImageResource(R.drawable.ic_launcher_background);

  if(checkboxJAVA.isChecked())
      imageJAVA.setImageResource(R.drawable.java);
  else
      imageJAVA.setImageResource(R.drawable.ic_launcher_background);
            }
```

Spinner & SnackBar (App2)

- It works like a dropdown
- Add the spinner element into xml file
- fetch its object into java
- create array adapter which is responsible to put the values inside spinneer.
- set the adapter
- set the onItemSelectedListner() on to the spinner

```
 <Spinner
        android:id="@+id/spinnerCountries"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
```

```
Spinner spinnerCountries;
    String listCountries[] = new String[]{"India", "China", "Pakistan",
"USA", "UK"};

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        spinnerCountries = findViewById(R.id.spinnerCountries);
        ArrayAdapter arrayAdapter = new ArrayAdapter(this,
android.R.layout.simple_list_item_1, listCountries);
        spinnerCountries.setAdapter(arrayAdapter);

        spinnerCountries.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
            @Override
            public void onItemSelected(AdapterView<?> parent, View view,
int position, long id) {
                //Log.e("MainActivity",listCountries[position]);
                //Toast.makeText(MainActivity.this,
listCountries[position], Toast.LENGTH_SHORT).show();
                Snackbar.make(MainActivity.this, view,
listCountries[position], Snackbar.LENGTH_SHORT)
                        .setAction("undo", new View.OnClickListener() {
                            @Override
                            public void onClick(View v) {
                                Toast.makeText(MainActivity.this, "Undo
Clicked", Toast.LENGTH_SHORT).show();
                            }
                        })
                        .show();
            }

            @Override
            public void onNothingSelected(AdapterView<?> parent) {

            }
```

```
        });
    }
```

Labwork For Spinner

- Implement 2 spinners
- first for country
- second will show respective states of that country

Lab work for registration page

- creating registration page to take inputs as per the image provided

Intent

- Its a messaging object
- used for communation between components of android applications
- Types of Intent
    - Implicit
        - To navigate across multiple applications
        - It uses intent filter for identifying the activity to launch
    - Explicit
        - To navigate within the application
- IntentFilter
    - It consists of 3 elements
        - 1. action
        - 2. data
        - 3. category

Implicit Intent (App3)

```
 public void btnCall(View view){
        Intent intent = new Intent(Intent.ACTION_DIAL,
Uri.parse("tel:8983049388"));
        startActivity(intent);
    }

    public void btnBrowse(View view){
```

```
    Intent intent = new
Intent(Intent.ACTION_VIEW,Uri.parse("https://sunbeaminfo.com/placements"));
    startActivity(intent);
    }
```

Labwork For Implicit Intent

- take the input of mobile phone and the browser link from user and then call or open it in the browser

Explicit Intent (App4)

- used for navigation within the appplication
- we need to cretae an intent object which takes 2 agruments
- first argument is the context, second is the fully qualified path of the activity class
- start the activity by passing this intent

```
 Intent intent =  new Intent(this, HomeActivity.class);
    startActivity(intent);
```

- we can use finish() to destroy the current activity

Context

- It represents state of an activity OR application

Sharing data using Intent (App5)

```
// in first activity
 Intent intent = new Intent(this, SecondActivity.class);
        intent.putExtra("k_name",editName.getText().toString());
        startActivity(intent);


// in second activity
Intent intent = getIntent();
    String name =  intent.getStringExtra("k_name");
      textName.setText(name);
```

Send Registration data from first activity to second (App6)