

Android (March 16 to 22)

Practical 2 : Create an application with a login module.(Check username and password).

```
package com.example.xcc.myapplication;

import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.RadioButton;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements
AdapterView.OnItemClickListener{

    private static final String USERNAME = "arsd";
    private static final String PASSWORD = "arsd";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.radio);
        // Spinner spinner = (Spinner) findViewById(R.id.spinner);
        //spinner.setOnItemClickListener(this);

        // Spinner spinner = (Spinner) findViewById(R.id.spinner_teacher);
        //spinner.setOnItemClickListener(this);
    }
    public void showHiddenButton(View view){
        Button hiddenButton = (Button) findViewById(R.id.button2);
        hiddenButton.setVisibility(View.VISIBLE);
    }
    public void validateUser(View view){
```

```

EditText usernameText = (EditText)findViewById(R.id.username);
EditText passwordText = (EditText) findViewById(R.id.password);

String username = usernameText.getText().toString();
String password = passwordText.getText().toString();
Log.println(Log.DEBUG,"ARSDAPP","user "+username+" password "+password);
if(username != null && !username.equals("")){
    if(password != null&&
        !password.equals("")){
        if(username.equals(USERNAME) && password.equals(PASSWORD)){
            //success
            Toast toast = Toast.makeText(getApplicationContext(),
                "User successfully login", Toast.LENGTH_LONG); // initiate the Toast with
context, message and duration for the Toast
            toast.show(); // display the Toast
            //view.setBackgroundColor(Color.argb(255, 255, 255, 255));
            //view.setBackgroundColor(Color.GREEN);
        }else{
            //Failure
            Toast toast = Toast.makeText(getApplicationContext(),
                "Please check your credentials", Toast.LENGTH_LONG); // initiate the Toast
with context, message and duration for the Toast
            toast.show(); // display the Toast
        }

    }else{
        //password is null or blank
        Toast toast = Toast.makeText(getApplicationContext(),
            "password is null or blank", Toast.LENGTH_LONG); // initiate the Toast with
context, message and duration for the Toast
            toast.show(); // display the Toast
        }

    }else{
        // either user is null or blank
        Toast toast = Toast.makeText(getApplicationContext(),
            "either user is null or blank", Toast.LENGTH_LONG); // initiate the Toast with
context, message and duration for the Toast
            toast.show(); // display the Toast
        }
    }
}
}

```

```

public void changelImage(View view){
    ImageView imageView = (ImageView)findViewById(R.id.simpleImageView);
    //imageView.setImageURI();
    imageView.setImageResource(R.drawable.monkey);
}

public void onItemSelected(AdapterView<?> parent, View view,
                           int pos, long id) {
    // An item was selected. You can retrieve the selected item using
    // parent.getItemAtPosition(pos)

    Log.println(Log.DEBUG,"ARSDAPP","Selected Spinner Value is
"+parent.getItemIdAtPosition(pos));

    /* if(pos==0){
        ImageView imageView = (ImageView)findViewById(R.id.simpleImageView);
        //imageView.setImageURI();
        imageView.setImageResource(R.drawable.lion);
    }else if(pos ==1){
        ImageView imageView = (ImageView)findViewById(R.id.simpleImageView);
        //imageView.setImageURI();
        imageView.setImageResource(R.drawable.monkey);
    }else{
        ImageView imageView = (ImageView)findViewById(R.id.simpleImageView);
        //imageView.setImageURI();
        imageView.setImageResource(R.drawable.elephant);
    }*/

    String courses[] = getResources().getStringArray(R.array.teacher_courses);
    TextView selectedTeacher = (TextView)findViewById(R.id.show_course);
    selectedTeacher.setText(courses[pos]);
}

public void onNothingSelected(AdapterView<?> parent) {
    // Another interface callback
}

public void onRadioButtonClicked(View view) {
    // Is the button now checked?
    boolean checked = ((RadioButton) view).isChecked();
    LinearLayout layout = (LinearLayout) findViewById(R.id.radio_linear_layout);

```

```

// Check which radio button was clicked
switch (view.getId()) {
    case R.id.radio_male:
        if (checked) {
            // Male are the best
            Toast toast = Toast.makeText(getApplicationContext(),
                "Male is selected", Toast.LENGTH_LONG); // initiate the Toast with context,
message and duration for the Toast
            toast.show(); // display the Toast
            layout.setBackgroundColor(Color.BLUE);
            break;
        }

        case R.id.radio_female:
            if (checked) {
                // Female rule
                Toast toast = Toast.makeText(getApplicationContext(),
                    "Female is selected", Toast.LENGTH_LONG); // initiate the Toast with context,
message and duration for the Toast
                toast.show(); // display the Toast
                layout.setBackgroundColor(Color.GREEN);
                break;
            }
        }
}
}
}
}

```

Practical 3: Create spinner with strings taken from resource folder(res >> value folder) and on changing the spinner value, Image will change.

```

package com.example.xcc.myapplication;

import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.LinearLayout;

```

```

import android.widget.RadioButton;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;

public class SpinnerActivity extends AppCompatActivity implements
AdapterView.OnItemSelectedListener {

    private static final String USERNAME = "arsd";
    private static final String PASSWORD = "arsd";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.spinner);
        Spinner spinner = (Spinner) findViewById(R.id.spinner);
        spinner.setOnItemSelectedListener(this);
    }
    public void onItemSelected(AdapterView<?> parent, View view,
        int pos, long id) {
        // An item was selected. You can retrieve the selected item using
        // parent.getItemAtPosition(pos)

        Log.println(Log.DEBUG, "ARSDAPP", "Selected Spinner Value is " +
parent.getItemIdAtPosition(pos));

        if (pos == 0) {
            ImageView imageView = (ImageView) findViewById(R.id.simpleImageView);
            imageView.setImageResource(R.drawable.lion);
        } else if (pos == 1) {
            ImageView imageView = (ImageView) findViewById(R.id.simpleImageView);
            imageView.setImageResource(R.drawable.monkey);
        } else {
            ImageView imageView = (ImageView) findViewById(R.id.simpleImageView);
            imageView.setImageResource(R.drawable.elephant);
        }
    }

    public void onNothingSelected(AdapterView<?> parent) {
        // Another interface callback
    }
}

```

}