# Experiment no: 6

**Name:** Sankalp Misal

**Roll No: 41**　　　　**Div: A**

### XML FILE

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center_horizontal"
    android:padding="20dp"
    android:background="#FFFFFF">

    <!-- Title -->
    <TextView
        android:id="@+id/tvTitle"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Book Your Slot"
        android:textSize="22sp"
        android:textStyle="bold"
        android:textColor="#000000"
        android:layout_marginTop="40dp"

android:layout_marginBottom="30dp"/>

    <!-- Enter Name -->
    <TextView
        android:id="@+id/tvName"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Enter Name:"
        android:textSize="18sp"
        android:layout_marginBottom="5dp"/>

    <EditText
        android:id="@+id/eName"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Enter your name"
        android:inputType="textPersonName"
        android:layout_marginBottom="25dp"
        android:padding="10dp"

android:background="@android:drawable/edit_text" />

    <!-- Select Date -->
    <Button
        android:id="@+id/bDate"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:text="Select Date"
        android:layout_gravity="center"
        android:layout_marginTop="10dp"

android:layout_marginBottom="10dp"/>

    <TextView
        android:id="@+id/tvDate"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Selected Date: "
        android:textSize="16sp"

android:layout_marginBottom="25dp"/>

    <!-- Select Time -->
    <Button
        android:id="@+id/bTime"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:text="Select Time"
        android:layout_gravity="center"
        android:layout_marginTop="10dp"

android:layout_marginBottom="10dp"/>

    <TextView
        android:id="@+id/tvTime"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Selected Time: "
        android:textSize="16sp"

android:layout_marginBottom="40dp"/>

    <!-- Book Slot Button -->
    <Button
        android:id="@+id/bBook"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:text="Book Slot"
        android:textStyle="bold"
        android:layout_gravity="center"
        android:padding="10dp"
        android:backgroundTint="#4CAF50"
        android:textColor="#FFFFFF"/>
</LinearLayout>
```

### JAVA FILE

```java
package com.example.exp_6;

import
androidx.appcompat.app.AppCompatActivity;
```

```java
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.*;

import java.util.Calendar;


public class MainActivity extends
AppCompatActivity implements
DatePickerDialog.OnDateSetListener,
TimePickerDialog.OnTimeSetListener {

    EditText e;
    TextView t1, t2;
    Button b1, b2, b3;
    int day, month, year;
    int myDay, myMonth, myYear;
    int hour, minute;
    int myHour, myMinute;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);

        e = findViewById(R.id.eName);
        t1 = findViewById(R.id.tvDate);
        t2 = findViewById(R.id.tvTime);
        b1 = findViewById(R.id.bDate);
        b2 = findViewById(R.id.bTime);
        b3 = findViewById(R.id.bBook);

        b1.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Calendar c =
Calendar.getInstance();
                day =
c.get(Calendar.DAY_OF_MONTH);
                month =
c.get(Calendar.MONTH);
                year = c.get(Calendar.YEAR);

                DatePickerDialog dpd = new
DatePickerDialog(MainActivity.this,
MainActivity.this, year, month, day);
                dpd.show();
            }
        });

    // Button 2: Select Time
        b2.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // Get current time
                Calendar c =
Calendar.getInstance();

                // If already selected before,
show that time instead of current
                int initHour = (myHour != 0) ?
myHour : c.get(Calendar.HOUR_OF_DAY);
                int initMinute = (myMinute != 0)
? myMinute : c.get(Calendar.MINUTE);

                // Create dialog with last
selected or current time
                TimePickerDialog tpd = new
TimePickerDialog(
                    MainActivity.this,
                    MainActivity.this,
                    initHour,
                    initMinute,
                    true // true = 24-hour
format
                );
                tpd.setTitle("Select Time"); //
Optional title for clarity
                tpd.show();
            }
        });


    // Button 3: Book Slot
        b3.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String name =
e.getText().toString();
                String date =
t1.getText().toString();
                String time =
t2.getText().toString();

                if (name.isEmpty()) {

Toast.makeText(MainActivity.this,
"Please enter your name",
Toast.LENGTH_SHORT).show();
                } else {

Toast.makeText(MainActivity.this,
                    "Successful booking for "
```

```java
                        + name + "\n" + date + "\n" + time,

Toast.LENGTH_LONG).show();
            }
        }
    });
}

    // DatePicker callback
    @Override
    public void onDateSet(DatePicker view,
int year, int month, int dayOfMonth) {
        myDay = dayOfMonth;
        myMonth = month + 1;
        myYear = year;
        t1.setText("Selected Date: " + myDay
+ "/" + myMonth + "/" + myYear);
    }

    // TimePicker callback
    @Override
    public void onTimeSet(TimePicker
view, int hourOfDay, int minute) {
        myHour = hourOfDay;
        myMinute = minute;
        t2.setText("Selected Time: " +
String.format("%02d:%02d", myHour,
myMinute));
    }

}
```
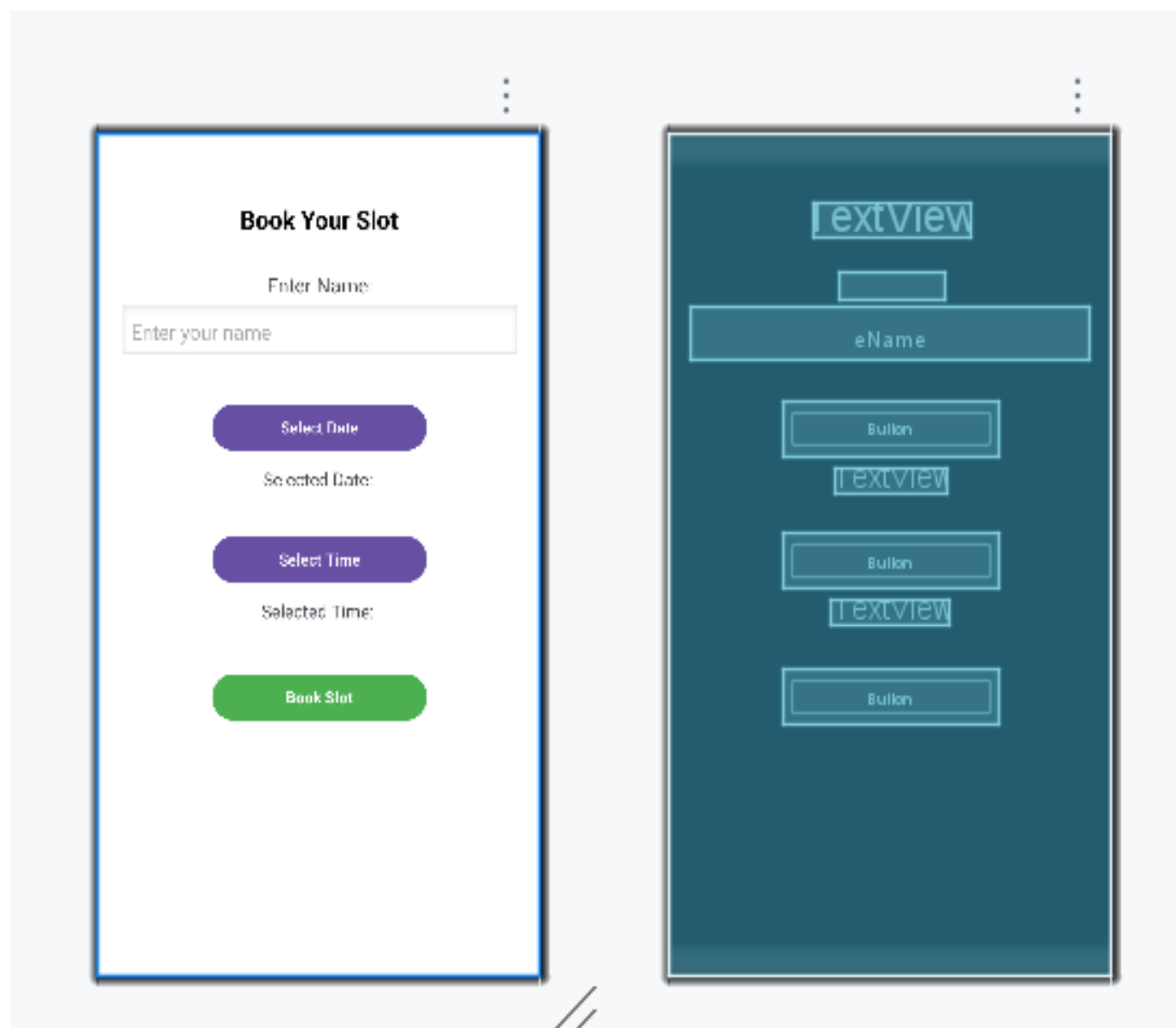
## Book Your Slot

Enter Name

Enter your name

Select Date

Selected Date:

Select Time

Selected Time:

Book Slot

TextView

eName

Button

TextView

Button

TextView

Button

# Book Your Slot

Enter Name:

sankalp

Select Date

Selected Date: 6/10/2025

Select Time

Selected Time: 12:10

Book Slot

Successful booking for sankalp
Selected Date: 6/10/2025...