

Date:  
Lab Session No.: 10

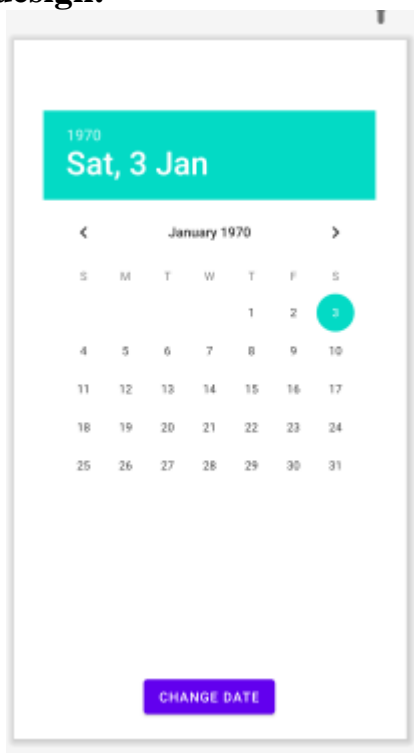
### Aim:

Develop an android application to implement user interface by using User Interface (UI) or input controls available in android. DatePicker, TimePicker

### Software's /IDE Tools:

Android Development Kit / Android Studio

### Application User interface design:



### Application Programming Interface:

API / PACKAGES	CLASSES / INTERFACES	METHODS	DESCRIPTION
import androidx.appcompat.	AppCompatActivity	protected void onCreate(Bundle savedInstanceState)	onCreate(Bundle) is where you initialize your activity. When Activity is started and application is not loaded, then both onCreate() methods will be called.

app.AppCompatActivity;			
import android.widget.EditText;	EditText	getText()	Determines the minimum type that getText() will return. If set, specifies that this TextView has a textual input method and should automatically capitalize what the user types.

**Code/Implementation:**

// Develop an android application to implement user interface by using User //Interface (UI) or input controls available in android. DatePicker, TimePicker

/\*

```

    Lab Session No.           : 10
    Author                   : Tellakula Avinash
    Date                     :
    Roll Number              : 198W1A05C0
    Description               : Implementation of DatePicker, TimePicker
    Softwares required       :
                               Android Studio
    Topics Covered           :
                               DatePicker, TimePicker

```

\*/

MainActivity.java

```

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    DatePicker picker;
    Button displayDate;
    TextView textview1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        textview1=(TextView)findViewById(R.id.textview1);
        picker=(DatePicker)findViewById(R.id.datePicker);

```

```

displayDate=(Button)findViewById(R.id.button1);

textView1.setText("Current Date: "+getCurrentDate());

displayDate.setOnClickListener(new View.OnClickListener(){
    @Override
    public void onClick(View view) {

        textView1.setText("Change Date: "+getCurrentDate());
    }

});

}

public String getCurrentDate(){
    StringBuilder builder=new StringBuilder();
    builder.append((picker.getMonth() + 1)+"/"); //month is 0 based
    builder.append(picker.getDayOfMonth()+"/");
    builder.append(picker.getYear());
    return builder.toString();
}
}

```

#### activity\_main.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button1"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"
        android:layout_marginBottom="102dp"
        android:layout_marginLeft="30dp"
        android:layout_marginStart="30dp"

```

```
android:text="" />
```

```
<Button
```

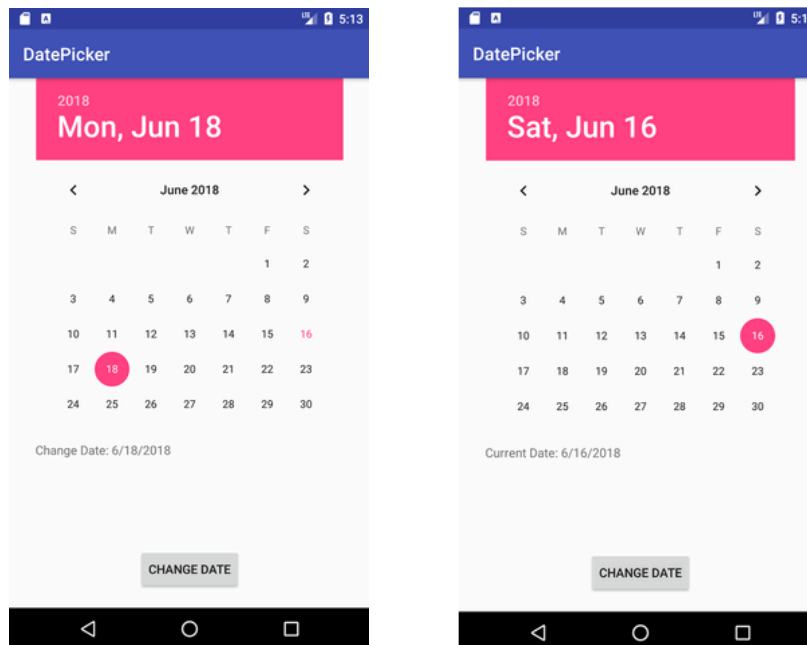
```
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentBottom="true"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="20dp"
    android:text="Change Date" />
```

```
<DatePicker
```

```
    android:id="@+id/datePicker"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/textView1"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="36dp" />
```

```
</RelativeLayout>
```

## Output:



## Result:

Demonstration the DatePicker were done successfully.