

# UCS1711 -MOBILE APPLICATION

## DEVELOPMENT LAB

### EX - 1: PERSONAL INFORMATION PAGE USING GUI CONTROLS, FONTS, AND COLORS

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#### **AIM :**

Develop an android application using GUI controls for creating a personal information page using the below specifications. Apply formatting using different styles of Font and Colors.

Specifications: 1. Name in text 2. DOB in date picker 3. Address in text 4. Email using email 5. Mobile number in text 6. Gender radio buttons 7. Languages known in check boxes

#### **CODE :**

MainActivity.java:

```
package com.example.mobile1;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

        setContentView(R.layout.activity_main);
    }
    @SuppressWarnings("deprecation")
    public void setDate(View view) {
        showDialog(999);
        Toast.makeText(getApplicationContext(), "ca",
            Toast.LENGTH_SHORT)
            .show();
    }
}

```

### Activity\_main.xml:

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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"
    android:background="@color/back"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/names2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="160dp"
        android:ems="10"
        android:hint="Enter Date"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.154"

```

```
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent" />
```

```
<Button
```

```
    android:id="@+id/button2"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="604dp"  
    android:backgroundTint="@color/black"  
    android:text="SUBMIT"  
    android:textColor="@color/black"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.461"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
```

```
    android:id="@+id/gender2"  
    android:layout_width="83dp"  
    android:layout_height="32dp"  
    android:layout_marginTop="52dp"  
    android:text="Name"  
    android:textColor="@color/black"  
    android:textSize="18sp"  
    app:layout_constraintEnd_toEndOf="parent"  
    app:layout_constraintHorizontal_bias="0.085"  
    app:layout_constraintStart_toStartOf="parent"  
    app:layout_constraintTop_toTopOf="parent" />
```

```
<TextView
```

```
    android:id="@+id/title"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:layout_marginTop="12dp"  
    android:text="@string/title"
```

```
android:textColor="@color/white"
android:textSize="28sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.446"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<EditText

```
android:id="@+id/names"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginTop="84dp"
android:ems="10"
android:hint="Enter name"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.139"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/gender6"
android:layout_width="83dp"
android:layout_height="32dp"
android:layout_marginTop="140dp"
android:text="DOB"
android:textColor="@color/black"
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.094"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/gender3"
android:layout_width="151dp"
```

```
android:layout_height="30dp"
android:layout_marginTop="300dp"
android:text="Phone number"
android:textColor="@color/black"
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.107"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/gender5"
android:layout_width="151dp"
android:layout_height="30dp"
android:layout_marginTop="484dp"
android:text="Languages known"
android:textColor="@color/black"
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.107"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<CheckBox

```
android:id="@+id/conditions"
android:layout_width="100dp"
android:layout_height="38dp"
android:layout_marginTop="516dp"
android:backgroundTint="#D500F9"
android:buttonTint="@color/white"
android:text="English"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.09"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<CheckBox

```
    android:id="@+id/conditions4"
    android:layout_width="100dp"
    android:layout_height="38dp"
    android:layout_marginTop="552dp"
    android:backgroundTint="#D500F9"
    android:buttonTint="@color/white"
    android:text="Japanese"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.411"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

<RadioGroup

```
    android:id="@+id/radioGroup"
    android:layout_width="254dp"
    android:layout_height="46dp"
    android:layout_marginTop="244dp"
    android:orientation="horizontal"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.197"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">
```

<RadioButton

```
    android:id="@+id/radioButton"
    android:layout_width="81dp"
    android:layout_height="34dp"
    android:buttonTint="@color/white"
    android:text="Male"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<RadioButton
    android:id="@+id/female"
    android:layout_width="89dp"
    android:layout_height="31dp"
    android:buttonTint="@color/white"
    android:text="Female"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.655"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<RadioButton
    android:id="@+id/other"
    android:layout_width="78dp"
    android:layout_height="33dp"
    android:buttonTint="@color/white"
    android:text="Other"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.949"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
</RadioGroup>
```

```
<TextView
    android:id="@+id/gender"
    android:layout_width="83dp"
    android:layout_height="32dp"
    android:layout_marginTop="208dp"
    android:text="Gender"
    android:textColor="@color/black"
    android:textSize="18sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.094"
    app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
```

```
    android:id="@+id/address"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="424dp"
    android:ems="10"
    android:hint="Enter Address"
    android:inputType="text"
    android:maxLines="4"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.139"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<EditText
```

```
    android:id="@+id/Phone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="332dp"
    android:ems="10"
    android:hint="Enter phone number"
    android:inputType="phone"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.139"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
<CheckBox
```

```
    android:id="@+id/conditions2"
    android:layout_width="100dp"
    android:layout_height="38dp"
    android:layout_marginTop="516dp"
    android:backgroundTint="#D500F9"
```



```
android:buttonTint="@color/white"
android:text="Tamil"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.418"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<CheckBox

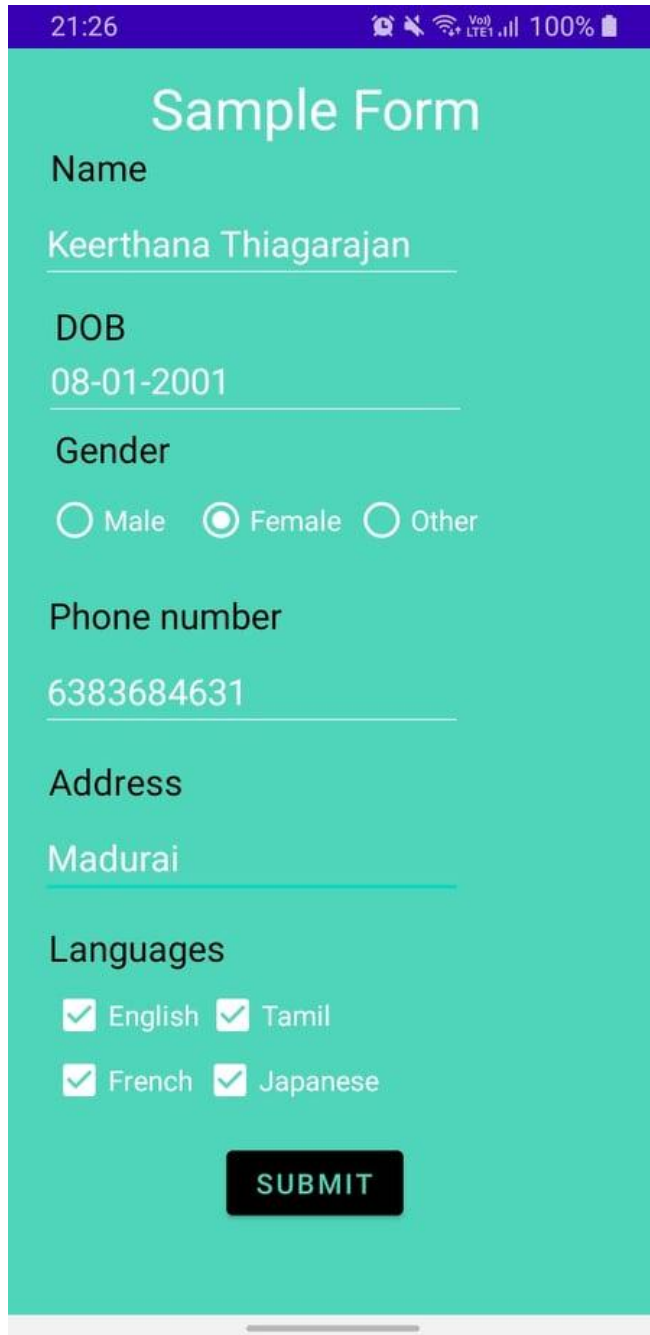
```
android:id="@+id/conditions3"
android:layout_width="100dp"
android:layout_height="38dp"
android:layout_marginTop="552dp"
android:backgroundTint="#D500F9"
android:buttonTint="@color/white"
android:text="French"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.09"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

<TextView

```
android:id="@+id/gender4"
android:layout_width="151dp"
android:layout_height="30dp"
android:layout_marginTop="392dp"
android:text="Address"
android:textColor="@color/black"
android:textSize="18sp"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.107"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

## OUTPUT :



The screenshot displays an Android application interface with a teal background. At the top, a purple status bar shows the time 21:26, signal strength, VoLTE, and 100% battery. The app title 'Sample Form' is centered at the top in white. Below it, the form fields are as follows:

- Name:** Keerthana Thiagarajan
- DOB:** 08-01-2001
- Gender:** Three radio buttons are present: 'Male' (unselected), 'Female' (selected), and 'Other' (unselected).
- Phone number:** 6383684631
- Address:** Madurai
- Languages:** Four checkboxes are shown, all of which are checked: 'English', 'Tamil', 'French', and 'Japanese'.

A black 'SUBMIT' button is located at the bottom center of the form area.

## RESULT :

Thus we have successfully developed an android application using GUI controls for creating a personal information page.