

MOBILE COMPUTING LAB

Exercise 6 :

Create below home screen design using any layout but use appropriate controls such as EditText (text type, number type), Button, CheckBox, DatePicker, Radio Button, TextView etc. When Save Button is clicked, pass the data to next screen using intent and show the details with two button (namely confirm, edit). If edit button is clicked, come to home screen and again ask details. If confirm button is clicked, navigate to third screen which display a message “Hi {insert name}, You are successfully registered”

Note : Use the proper IME_ACTION types for the first name and last name edittext controls. Also set the focus to first textbox.

The image shows a mobile app home screen for user registration. It features a vertical stack of input fields with light gray borders and rounded corners. The fields are labeled 'First name', 'Last name', 'Phone number', 'Email', 'Birthday', and 'Gender'. The 'Phone number' field contains the text '+919362688752'. The 'Gender' field has a dropdown menu with the selected option 'Prefer not to say'. Below these fields is a label 'Address' followed by a 'Street' input field. At the bottom of the form is a prominent blue button with the text 'SAVE' in white capital letters.

First name

Last name

Phone number
+919362688752

Email

Birthday

Gender
Prefer not to say

Address

Street

SAVE

MainActivity.kt:

```
package com.example.myapplication

import android.app.DatePickerDialog
import android.content.Intent
import android.os.Bundle
import android.view.View
import android.widget.Button
import android.widget.LinearLayout
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import com.google.android.material.textfield.TextInputEditText
import java.util.*

class MainActivity : AppCompatActivity() {

    private lateinit var firstNameEditText: TextInputEditText
    private lateinit var lastNameEditText: TextInputEditText
    private lateinit var phoneEditText: TextInputEditText
    private lateinit var birthdayEditText: TextInputEditText
    private lateinit var genderEditText: TextInputEditText
    private lateinit var addressEditText: TextInputEditText
    private lateinit var saveButton: Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        firstNameEditText = findViewById(R.id.firstNameEditText)
        lastNameEditText = findViewById(R.id.lastNameEditText)
        phoneEditText = findViewById(R.id.phoneEditText)
        birthdayEditText = findViewById(R.id.birthdayEditText)
        genderEditText = findViewById(R.id.genderEditText)
        addressEditText = findViewById(R.id.addressEditText)
        saveButton = findViewById(R.id.saveButton)
        val editMode = intent.getBooleanExtra("EDIT_MODE", false)
        if (editMode) {
            val userDetails = intent.getStringExtra("USER_DETAILS") ?: ""
            val details = userDetails.split("\n").map { it.split(": ")[1] }
            firstNameEditText.setText(details[0])
            lastNameEditText.setText(details[1])
            phoneEditText.setText(details[2])
            birthdayEditText.setText(details[3])
            genderEditText.setText(details[4])
            addressEditText.setText(details[5])
        }

        birthdayEditText.setOnClickListener {
            showDatePickerDialog()
        }

        saveButton.setOnClickListener {
            displayResult()
        }
    }
}
```

```

private fun showDatePickerDialog() {
    val calendar = Calendar.getInstance()
    val year = calendar.get(Calendar.YEAR)
    val month = calendar.get(Calendar.MONTH)
    val day = calendar.get(Calendar.DAY_OF_MONTH)

    val datePickerDialog = DatePickerDialog(this, { _, selectedYear,
selectedMonth, selectedDay ->
        val date = "$selectedDay/${selectedMonth + 1}/${selectedYear}"
        birthdayEditText.setText(date)
    }, year, month, day)

    datePickerDialog.show()
}

private fun displayResult() {
    val firstName = firstNameEditText.text.toString()
    val lastName = lastNameEditText.text.toString()
    val phone = phoneEditText.text.toString()
    val birthday = birthdayEditText.text.toString()
    val gender = genderEditText.text.toString()
    val address = addressEditText.text.toString()

    val result = ""
        First Name: $firstName
        Last Name: $lastName
        Phone: $phone
        Birthday: $birthday
        Gender: $gender
        Address: $address
    """.trimIndent()
    val intent = Intent(this, MainActivity2::class.java)
    intent.putExtra("USER_DETAILS", result)
    startActivity(intent)
}
}

```

Activity_main.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:padding="16dp">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Personal Details"
        android:textSize="24sp"
        android:textStyle="bold"
        android:layout_marginBottom="16dp"
        android:gravity="center"/>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"

```

```

        android:layout_marginBottom="16dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/firstNameEditText"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="First Name"/>
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/lastNameEditText"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Last Name"/>
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/phoneEditText"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Phone Number"/>
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/birthdayEditText"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Birthday"
            android:focusable="false"
            android:clickable="true"/>
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/genderEditText"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Gender"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/addressEditText"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

```

```

        android:hint="Address"/>
    </com.google.android.material.textfield.TextInputLayout>

    <Button
        android:id="@+id/saveButton"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="SAVE"
        android:layout_marginBottom="16dp"/>

</LinearLayout>

```

MainActivity2.kt :

```

package com.example.myapplication
import android.content.Intent
import android.os.Bundle
import android.view.View
import android.widget.Button
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
class MainActivity2 : AppCompatActivity() {
    private lateinit var detailTextView: TextView
    private lateinit var editButton: Button
    private lateinit var confirmButton: Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main2)

        detailTextView = findViewById(R.id.detailTextView)
        editButton = findViewById(R.id.editButton)
        confirmButton = findViewById(R.id.confirmButton)

        val details = intent.getStringExtra("USER_DETAILS")
        detailTextView.text = details

        editButton.setOnClickListener {
            val intent = Intent(this, MainActivity3::class.java)
            intent.putExtra("EDIT_MODE", true)
            intent.putExtra("USER_DETAILS", details)
            startActivity(intent)
            finish()
        }

        confirmButton.setOnClickListener {
            val firstName = details?.substringAfter("First Name: ")?.substringBefore("\n") ?: "User"
            val intent = Intent(this, MainActivity3::class.java)
            intent.putExtra("FIRST_NAME", firstName)
            startActivity(intent)
            finish()
        }
    }
}

```

Activity_main2.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:padding="16dp"
    android:gravity="center">

    <TextView
        android:id="@+id/detailTextView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="24sp"
        android:padding="16dp"
        android:fontFamily="sans-serif-medium"
        android:textColor="@android:color/black" />

    <Button
        android:id="@+id/editButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Edit" />

    <Button
        android:id="@+id/confirmButton"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Confirm" />
</LinearLayout>

```

MainActivity3.kt :

```

package com.example.myapplication
import android.os.Bundle
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity

class MainActivity3 : AppCompatActivity() {

    private lateinit var messageTextView: TextView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main3)

        messageTextView = findViewById(R.id.messageTextView)

        val firstName = intent.getStringExtra("FIRST_NAME") ?: "User"
        val message = "Hi $firstName, You are successfully registered"

        messageTextView.text = message
    }
}

```

Activity_main3.xml :

```

package com.example.myapplication

```

```

import android.os.Bundle
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity

class MainActivity3 : AppCompatActivity() {
    private lateinit var messageTextView: TextView
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main3)
        messageTextView = findViewById(R.id.messageTextView)
        val firstName = intent.getStringExtra("FIRST_NAME") ?: "User"
        val message = "Hi $firstName, You are successfully registered"
        messageTextView.text = message
    }
}

```

Output :

Personal Details

First Name

Mithra

Last Name

Saravanan

Phone Number

637859465

Birthday

15/3/2007

Gender

Female

Address

Erode

SAVE

First Name: Mithra
Last Name: Saravanan
Phone: 637859465
Birthday: 15/3/2007
Gender: Female
Address: Erode

Edit

Confirm

**Hi Mithra, You are successfully
registered**