

# CA4-Mobile Programming

## 1)NAME OF ACTIVITIES :

- Home page
- Register page
- Login page
- Health page
- Fitness page
- Nutrition page
- Safety page
- Essentials page
- Feedback page

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## 2)DATABASE REQUIREMENTS:

### User Information

- **User Table**
  - user\_id (Primary Key, Unique Identifier)
  - name
  - email (Unique, for login purposes)
  - password (Encrypted)
  - date\_of\_birth
  - profile\_picture (URL or Blob)
  - phone\_number
  - address

## 2. Health and Wellness

- **Health Records Table**
  - record\_id (Primary Key)
  - user\_id (Foreign Key)
  - date
  - height
  - weight
  - bmi
  - medical\_conditions (Text or JSON)
  - medications (Text or JSON)
  - allergies (Text or JSON)
  - notes
- **Menstrual Cycle Tracking Table**
  - cycle\_id (Primary Key)
  - user\_id (Foreign Key)
  - start\_date
  - end\_date
  - cycle\_length
  - symptoms (Text or JSON)
  - notes

### 3. Fitness and Activity

- **Fitness Goals Table**
  - goal\_id (Primary Key)
  - user\_id (Foreign Key)
  - goal\_type (e.g., weight loss, strength training)
  - description
  - target\_date
  - progress (Percentage or Text)
- **Activity Log Table**
  - activity\_id (Primary Key)
  - user\_id (Foreign Key)
  - date
  - activity\_type (e.g., running, yoga)
  - duration (in minutes)
  - calories\_burned
  - notes

### 4. Nutrition and Diet

- **Diet Plan Table**
  - diet\_id (Primary Key)
  - user\_id (Foreign Key)
  - plan\_name
  - description
  - start\_date
  - end\_date
  - calories\_per\_day
- **Meal Log Table**
  - meal\_id (Primary Key)
  - user\_id (Foreign Key)
  - date
  - meal\_type (e.g., breakfast, lunch, dinner)
  - food\_items (Text or JSON)
  - calories
  - notes

## 5. Notifications and Reminders

- **Notifications Table**
  - notification\_id (Primary Key)
  - user\_id (Foreign Key)
  - type (e.g., reminder, alert)
  - message
  - date
  - status (e.g., read, unread)
- **Reminders Table**
  - reminder\_id (Primary Key)
  - user\_id (Foreign Key)
  - title
  - description
  - reminder\_date
  - repeat (e.g., daily, weekly)
  - status (e.g., active, completed)

## Activity\_home.xml

```
<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"
    android:background="#EF0A93"
    android:padding="16dp">

    <ImageView
        android:id="@+id/logo"
        android:layout_width="308dp"
        android:layout_height="505dp"
        android:layout_gravity="center"
        android:layout_marginBottom="32dp"
        android:src="@drawable/img_1" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        android:gravity="bottom"
        android:orientation="vertical"
        android:layout_marginBottom="16dp">

        <Button
            android:id="@+id/register_button"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Register"
            android:padding="10dp"
            android:textColor="#FF4081"
            android:background="#FFF7F7"/>

    </LinearLayout>

    <Button
        android:id="@+id/login_button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginBottom="16dp"
        android:background="#FFFFFF"
        android:padding="10dp"
        android:text="Login"
        android:textColor="#FF4081" />
</LinearLayout>
```

## Kt file

```

package com.example.yourapp

import android.content.Intent
import android.os.Bundle
import android.widget.Button
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    private lateinit var loginButton: Button
    private lateinit var registerButton: Button

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

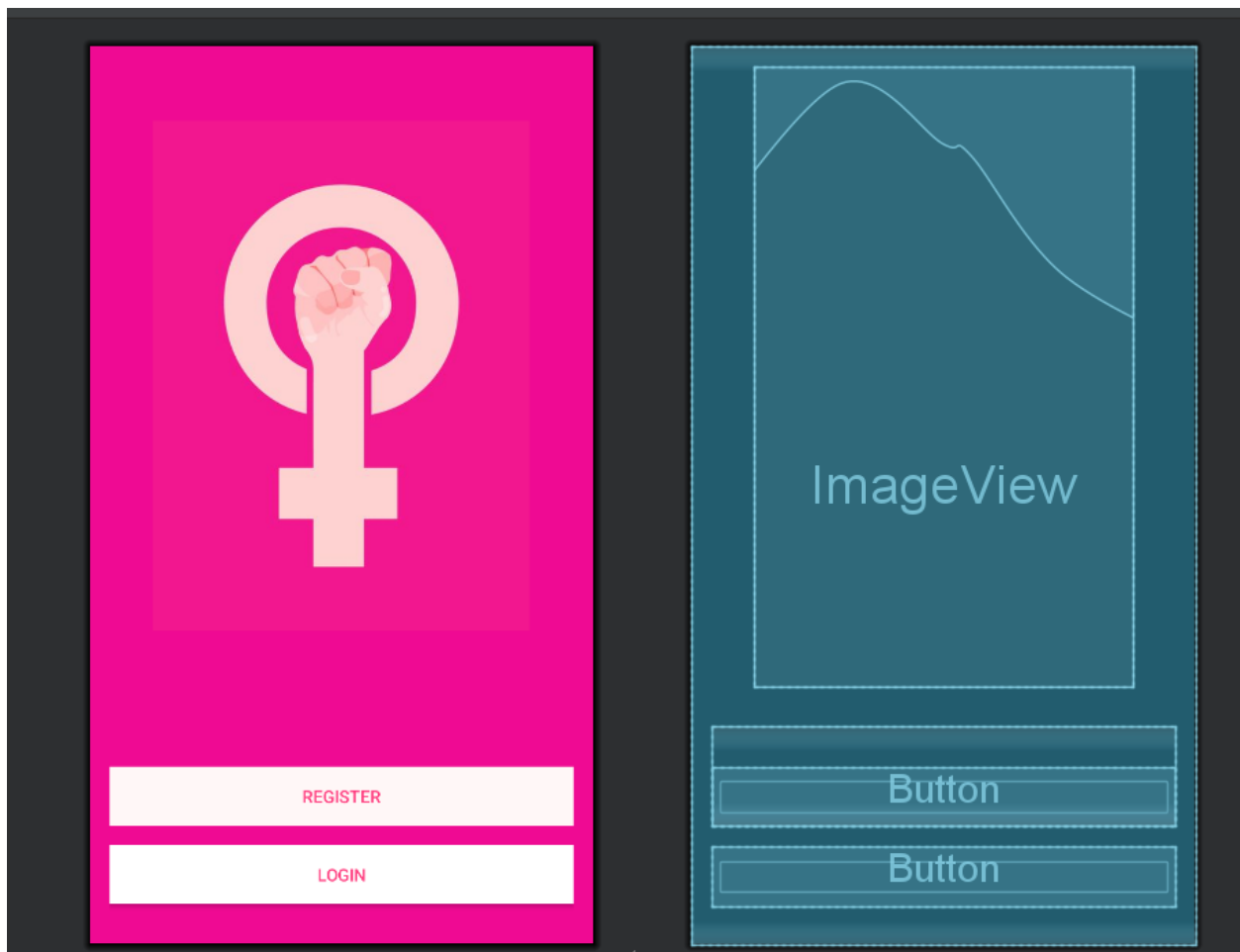
        loginButton = findViewById(R.id.login_button)
        registerButton = findViewById(R.id.register_button)

        loginButton.setOnClickListener {
            // Handle login button click
            val intent = Intent(this, LoginActivity::class.java)
            startActivity(intent)
        }

        registerButton.setOnClickListener {
            // Handle register button click
            val intent = Intent(this, RegisterActivity::class.java)
            startActivity(intent)
        }
    }
}

```

**OUTPUT:**



## Activity\_login.xml

```
<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:background="#FFC0CB">

    <EditText
        android:id="@+id/user_id"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="User ID"
        android:inputType="text"
        android:padding="10dp"
        android:background="@android:drawable/edit_text"
        android:textColor="#000000"
        android:layout_marginBottom="16dp"/>
```

```

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Password"
    android:padding="10dp"
    android:background="@android:drawable/edit_text"
    android:textColor="#000000"
    android:layout_marginBottom="16dp"
    android:inputType="textPassword" />

<Button
    android:id="@+id/submit_button"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="#F7C62C79"
    android:padding="10dp"
    android:text="Submit"
    android:textColor="#FFFFFF" /> <!-- This sets the button color to a
darker pink -->
</LinearLayout>

```

## Login.Kt

```

package com.example.yourapp

import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity

class MainActivity : AppCompatActivity() {

    private lateinit var userId: EditText
    private lateinit var password: EditText
    private lateinit var submitButton: Button

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
    }
}

```

```

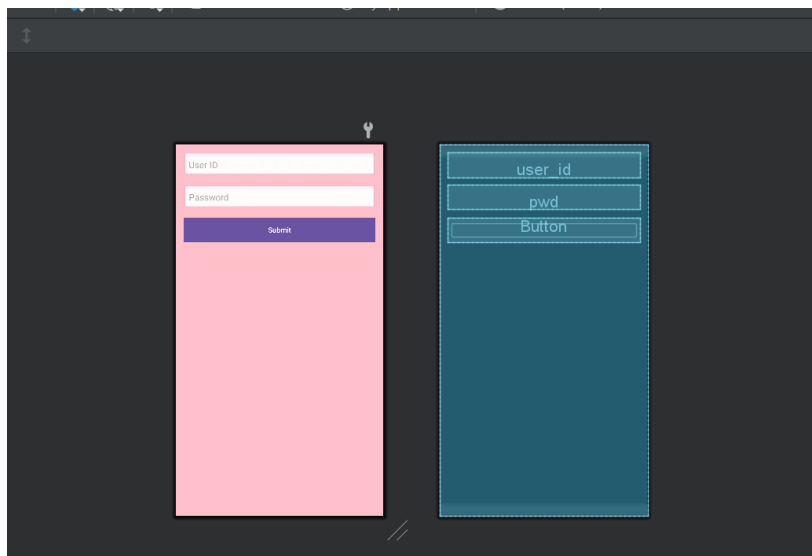
setContentView(R.layout.activity_main)

userId = findViewById(R.id.user_id)
password = findViewById(R.id.pwd)
submitButton = findViewById(R.id.submit_button)

submitButton.setOnClickListener {
    val user = userId.text.toString()
    val pass = password.text.toString()
    Toast.makeText(this, "User: $user\nPassword: $pass",
Toast.LENGTH_SHORT).show()
}
}
}

```

## OUTPUT:



## Activity\_register.xml

```

<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:background="@drawable/img"
android:gravity="center">

<EditText
    android:id="@+id/name"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Name"
    android:inputType="textPersonName"
    android:padding="10dp"
    android:background="@android:drawable/edit_text"
    android:textColor="#000000"
    android:layout_marginBottom="16dp"/>

<EditText
    android:id="@+id/phone_number"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Phone Number"
    android:inputType="phone"
    android:padding="10dp"
    android:background="@android:drawable/edit_text"
    android:textColor="#000000"
    android:layout_marginBottom="16dp"/>

<EditText
    android:id="@+id/email"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Email ID"
    android:inputType="textEmailAddress"
    android:padding="10dp"
    android:background="@android:drawable/edit_text"
    android:textColor="#000000"
    android:layout_marginBottom="16dp"/>

<EditText
    android:id="@+id/date_of_birth"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Date of Birth"
    android:inputType="date"
    android:padding="10dp"
    android:background="@android:drawable/edit_text"
    android:textColor="#000000"
    android:layout_marginBottom="16dp"/>

<Button
    android:id="@+id/register_button"
```

```
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Register"
        android:padding="10dp"
        android:textColor="#FFFFFF"
        android:background="#000000"/>
</LinearLayout>
```

## Register.kt

```
package com.example.yourapp

import android.os.Bundle
import android.widget.Button
import android.widget.EditText
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity

class RegisterActivity : AppCompatActivity() {

    private lateinit var name: EditText
    private lateinit var phoneNumber: EditText
    private lateinit var email: EditText
    private lateinit var dateOfBirth: EditText
    private lateinit var registerButton: Button

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

        name = findViewById(R.id.name)
        phoneNumber = findViewById(R.id.phone_number)
        email = findViewById(R.id.email)
        dateOfBirth = findViewById(R.id.date_of_birth)
        registerButton = findViewById(R.id.register_button)

        registerButton.setOnClickListener {
            val userName = name.text.toString()
            val userPhone = phoneNumber.text.toString()
            val userEmail = email.text.toString()
        }
    }
}
```

```

        val userDob = dateOfBirth.text.toString()

        Toast.makeText(this, "Name: $userName\nPhone: $userPhone\nEmail:
$userEmail\nDOB: $userDob", Toast.LENGTH_SHORT).show()
    }
}
}

```

OUTPUT:

