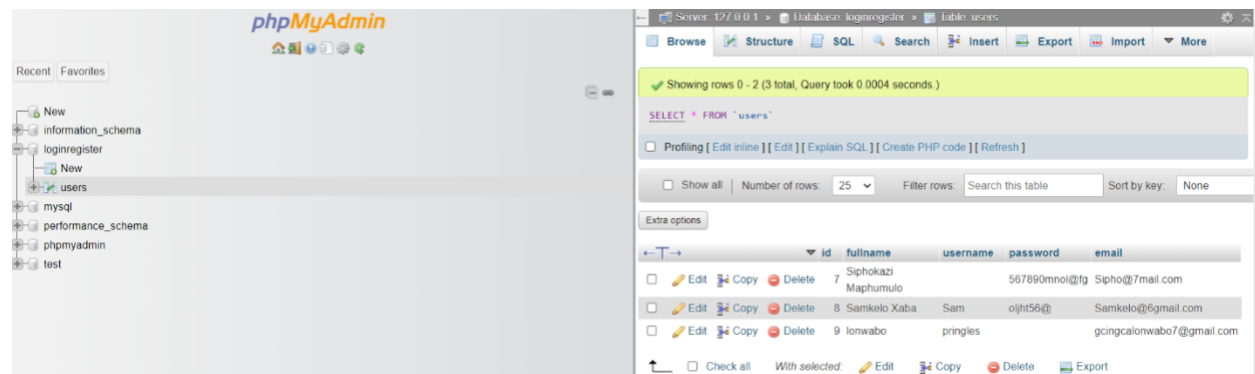
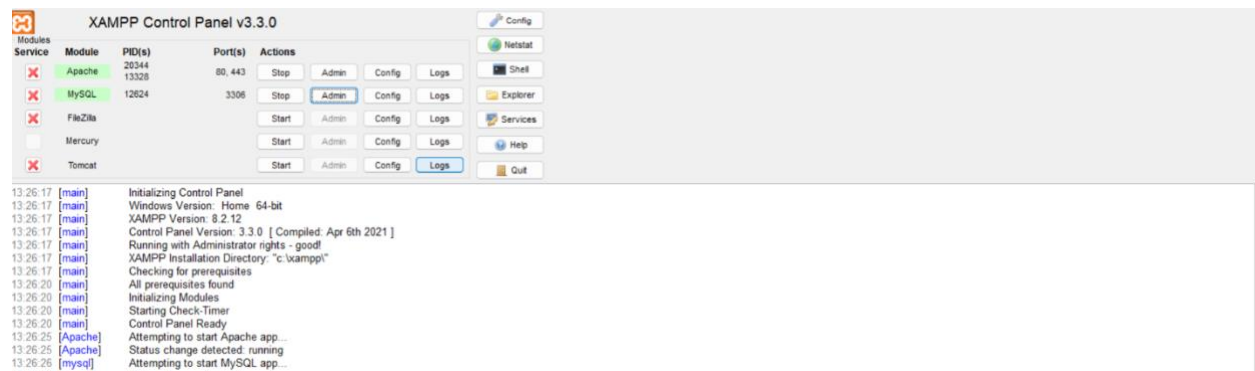


Database



Connection between server and client

Php storm

Database.php

```
require "DataBaseConfig.php";

class DataBase
{
    public $connect;
    public $data;
```

```

private $sql;
protected $servername;
protected $username;
protected $password;
protected $databasename;

public function __construct()
{
    $this->connect = null;
    $this->data = null;
    $this->sql = null;
    $dbc = new DataBaseConfig();
    $this->servername = $dbc->servername;
    $this->username = $dbc->username;
    $this->password = $dbc->password;
    $this->databasename = $dbc->databasename;
}

function dbConnect()
{
    $this->connect = mysqli_connect($this->servername, $this->
    >username, $this->password, $this->databasename);
    return $this->connect;
}

function prepareData($data)
{
    return mysqli_real_escape_string($this->connect,
    stripslashes(htmlspecialchars($data)));
}

function login($table, $username, $password)
{
    $username = $this->prepareData($username);
    $password = $this->prepareData($password);
    $this->sql = "select * from " . $table . " where username =
    '" . $username . "'";
    $result = mysqli_query($this->connect, $this->sql);
    $row = mysqli_fetch_assoc($result);
}

```

```

        if (mysqli_num_rows($result) != 0) {
            $dbusername = $row['username'];
            $dbpassword = $row['password'];
            if ($dbusername == $username && password_verify($password,
$dbpassword)) {
                $login = true;
            } else $login = false;
        } else $login = false;

        return $login;
    }

    function signUp($table, $fullname, $email, $username, $password)
    {
        $fullname = $this->prepareData($fullname);
        $username = $this->prepareData($username);
        $password = $this->prepareData($password);
        $email = $this->prepareData($email);
        $password = password_hash($password, PASSWORD_DEFAULT);
        $this->sql =
            "INSERT INTO " . $table . " (fullname, username, password,
email) VALUES ('" . $fullname . "', '" . $username . "', '" .
$password . "', '" . $email . "')";
        if (mysqli_query($this->connect, $this->sql)) {
            return true;
        } else return false;
    }
}

?>

```

Login.php

```

<?php
require "DataBase.php";
$db = new DataBase();
if (isset($_POST['username']) && isset($_POST['password'])) {

```

```

        if ($db->dbConnect()) {
            if ($db->login("users", $_POST['username'],
$_POST['password'])) {
                echo "Login Success";
            } else echo "Username or Password wrong";
        } else echo "Error: Database connection";
    } else echo "All fields are required";
?>

```

Signup.php

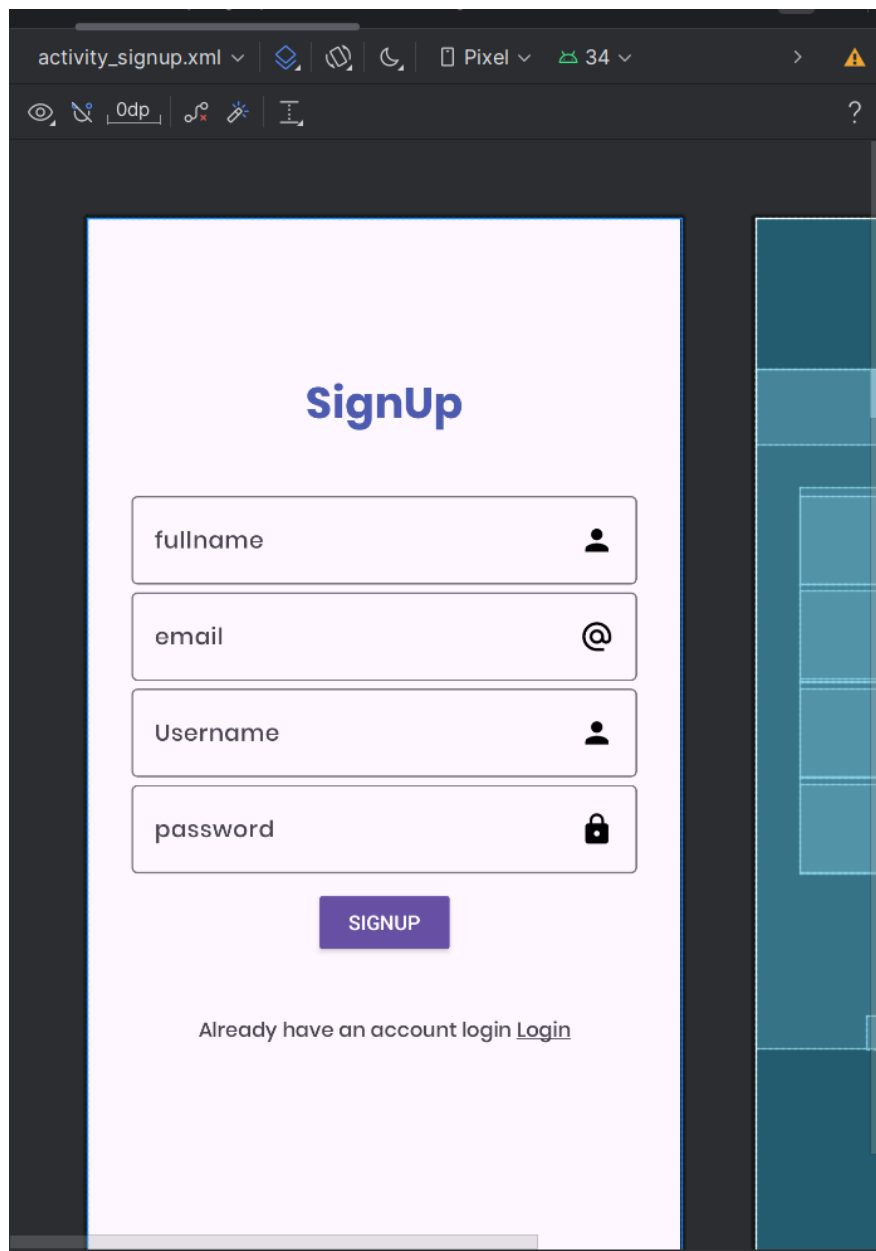
```

<?php
require "DataBase.php";
$db = new DataBase();
if (isset($_POST['fullname']) && isset($_POST['email']) &&
isset($_POST['username']) && isset($_POST['password'])) {
    if ($db->dbConnect()) {
        if ($db->signUp("users", $_POST['fullname'], $_POST['email'],
$_POST['username'], $_POST['password'])) {
            echo "Sign Up Success";
        } else echo "Sign up Failed";
    } else echo "Error: Database connection";
} else echo "All fields are required";
?>

```

Android studio

Signup page



```
<?xml version="1.0" encoding="utf-8"?>
<?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"
    tools:context=".signup">
```

```
<androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.4">

    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="@font/poppinsbold"
        android:gravity="center"
        android:text="SignUp"
        android:textSize="30sp"
        android:textColor="@color/colorAccent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        tools:targetApi="jelly_bean" />

    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/textInputLayoutFullname"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="30dp"
        android:layout_marginTop="30dp"
        android:layout_marginRight="30dp"
        android:hint="@string/fullname"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView">

        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/fullname"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
```

```

        android:drawableEnd="@drawable/name"
        android:fontFamily="@font/poppinsmedium"
        tools:targetApi="jelly_bean" />
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:id="@+id/textInputLayoutEmail"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:hint="@string/email"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textInputLayoutFullname">

    <com.google.android.material.textfield.TextInputEditText
        android:id="@+id/email"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:drawableEnd="@drawable/email"
        android:fontFamily="@font/poppinsmedium"
        tools:targetApi="jelly_bean" />
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:id="@+id/textInputLayoutUsername"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:hint="@string/username"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textInputLayoutEmail">

```

```

        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/username"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:drawableEnd="@drawable/user"
            android:fontFamily="@font/poppinsmedium"
            tools:targetApi="jelly_bean" />
    </com.google.android.material.textfield.TextInputLayout>

    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/textInputLayoutPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="30dp"
        android:layout_marginRight="30dp"
        android:hint="@string/password"

app:layout_constraintTop_toBottomOf="@+id/textInputLayoutUsername"
        tools:layout_editor_absoluteX="0dp">

        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/password"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:drawableEnd="@drawable/pass"
            android:fontFamily="@font/poppinsmedium"
            tools:targetApi="jelly_bean" />
    </com.google.android.material.textfield.TextInputLayout>

    <ProgressBar
        android:id="@+id/progress"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:visibility="gone"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/textInputLayoutPassword" />

```



```

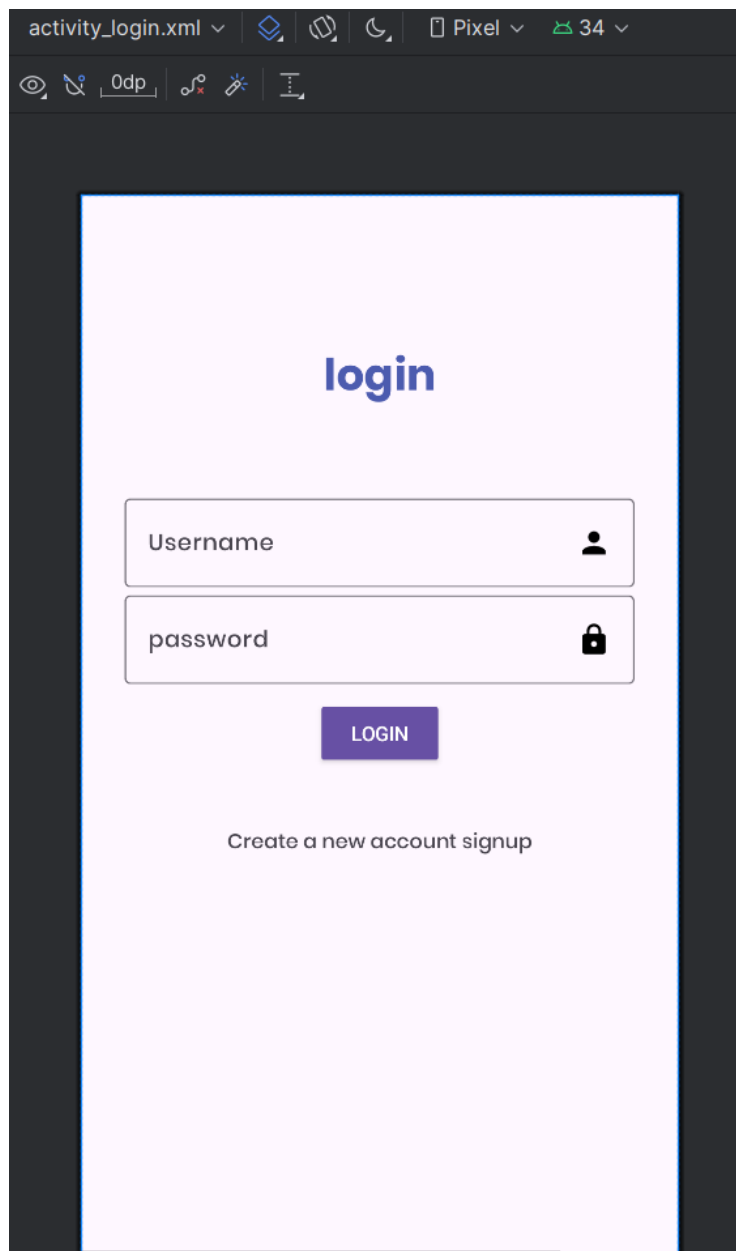
<Button
    android:id="@+id/buttonSignUp"
    style="@style/Widget.AppCompat.Button.Colored"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:text="@string/signup"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/progress" />

<TextView
    android:id="@+id/loginText"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:fontFamily="@font/poppinsmedium"
    android:text="@string/loginhere"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/buttonSignUp"
    tools:targetApi="jelly_bean" />
</androidx.constraintlayout.widget.ConstraintLayout>

</androidx.constraintlayout.widget.ConstraintLayout>

```

Login page



```
<?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"
    tools:context=".login">

    <TextView
```

```
    android:id="@+id/textView"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="100dp"
    android:fontFamily="@font/poppinsbold"
    android:gravity="center"
    android:text="@string/login"
    android:textColor="@color/colorAccent"
    android:textSize="30sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:targetApi="jelly_bean" />
```

```
<androidx.constraintlayout.widget.ConstraintLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.426"
    tools:layout_editor_absoluteX="0dp">
```

```
<com.google.android.material.textfield.TextInputLayout
    android:id="@+id/textInputLayoutUsername"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:hint="@string/username"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">
```

```
<com.google.android.material.textfield.TextInputEditText
    android:id="@+id/username"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
```

```

        android:drawableEnd="@drawable/user"
        android:fontFamily="@font/poppinsmedium"
        tools:targetApi="jelly_bean" />
</com.google.android.material.textfield.TextInputLayout>

<com.google.android.material.textfield.TextInputLayout
    android:id="@+id/textInputLayoutPassword"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="30dp"
    android:layout_marginRight="30dp"
    android:hint="@string/password"

app:layout_constraintTop_toBottomOf="@+id/textInputLayoutUsername"
    tools:layout_editor_absoluteX="0dp">

    <com.google.android.material.textfield.TextInputEditText
        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:drawableEnd="@drawable/pass"
        android:fontFamily="@font/poppinsmedium"
        tools:targetApi="jelly_bean" />
</com.google.android.material.textfield.TextInputLayout>

<ProgressBar
    android:id="@+id/progress"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:visibility="gone"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"

app:layout_constraintTop_toBottomOf="@+id/textInputLayoutPassword" />

<Button
    android:id="@+id/buttonLogin"
    style="@style/Widget.AppCompat.Button.Colored"
    android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"
        android:text="@string/login"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/progress" />

        <TextView
            android:id="@+id/signupText"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginTop="40dp"
            android:fontFamily="@font/poppinsmedium"
            android:text="@string/signhere"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintStart_toStartOf="parent"
            app:layout_constraintTop_toBottomOf="@+id/buttonLogin"
            tools:targetApi="jelly_bean" />
    </androidx.constraintlayout.widget.ConstraintLayout>
</androidx.constraintlayout.widget.ConstraintLayout>

```

Signup-java

```

package com.example.loginregister;

import static android.app.ProgressDialog.show;

import android.os.Bundle;
import android.os.Handler;
import android.os.Looper;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.ProgressBar;
import android.widget.TextView;
import android.widget.Toast;

```

```

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

import com.google.android.material.textfield.TextInputEditText;

public class signup extends AppCompatActivity {

    TextInputEditText textInputEditTextFullname,
    textInputEditTextUsername, textInputEditTextPassword,
    textInputEditTextEmail;
    Button buttonSignUp;
    TextView textViewLogin;
    ProgressBar progressBar;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_signup);

        textInputEditTextFullname = findViewById(R.id.fullname);
        textInputEditTextUsername = findViewById(R.id.username);
        textInputEditTextPassword = findViewById(R.id.password);
        textInputEditTextEmail = findViewById(R.id.email);
        buttonSignUp = findViewById(R.id.buttonSignUp);
        textViewLogin = findViewById(R.id.LoginText);
        progressBar = findViewById(R.id.progress);

        buttonSignUp.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String fullname, username, password, email;
                fullname =
String.valueOf(textInputEditTextFullname.getText());

```

```

        username =
String.valueOf(textInputEditTextUsername.getText());
        password =
String.valueOf(textInputEditTextPassword.getText());
        email =
String.valueOf(textInputEditTextEmail.getText());

        if (!fullname.isEmpty() && !username.isEmpty()
&& !password.isEmpty() && !email.isEmpty()) {
            progressBar.setVisibility(View.VISIBLE);
            Handler handler = new
Handler(Looper.getMainLooper());
            handler.post(new Runnable() {
                @Override
                public void run() {
                    String[] field = new String[4];
                    field[0] = "fullname";
                    field[1] = "username";
                    field[2] = "password";
                    field[3] = "email";
                    //Creating array for data
                    String[] data = new String[4];
                    data[0] = fullname;
                    data[1] = username;
                    data[2] = password;
                    data[3] = email;
                    PutData putData = new
PutData("http://localhost:63342/LoginRegister/signup.php?", "POST",
field, data);

                    if (putData.startPut()) {
                        if (putData.onComplete()) {

progressBar.setVisibility(View.GONE);
                            String result =
putData.getResult();

                            if (result.equals("sign up
success")){

```

```

Toast.makeText(getApplicationContext(), result,
Toast.LENGTH_SHORT).show();

                                intent intent = new
intent(getApplicationContext(), login.class);
                                startActivity(intent);
                                finish();
                                }
                                else {

Toast.makeText(getApplicationContext(), result,
Toast.LENGTH_SHORT).show();

                                }

                                }
                                }
                                //End Write and Read data with URL
                                }
                                });
                                }
                                else{

                                Toast.makeText(getApplicationContext(),"all fields
are required", Toast.LENGTH_SHORT).show();
                                }
                                }
                                });

```

```

ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v,
insets) -> {
    Insets systemBars =
insets.getInsets(WindowInsetsCompat.Type.systemBars());
    v.setPadding(systemBars.left, systemBars.top,
systemBars.right, systemBars.bottom);

```



```
        return insets;  
    });  
}
```