

20CYS404 ANDROID APP DEVELOPMENT

END SEM LAB DOCUMENT

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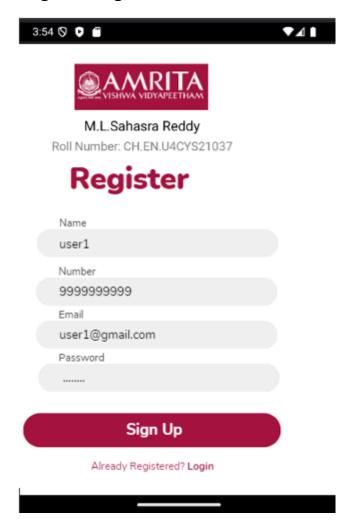
ROLL NO: CH.EN.U4CYS21037

Question

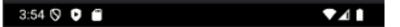
- 1. Create a Registration page
- 2. Based on dummy gmail as user name and password Login
- 3. Logout
- 4. Then login again and the session should be maintained the Welcome back "gmail id" should be display

Screenshots:

Register Page:



Login Page:





M.L.Sahasra Reddy

Roll Number: CH.EN.U4CYS21037



Email

user1@gmail.com

Password

......

Sign In

New User? Register

First Login:





M.L.Sahasra Reddy

Roll Number: CH.EN.U4CYS21037

Welcome user1@gmail.com!

Logout

Next Logins:





M.L.Sahasra Reddy

Roll Number: CH.EN.U4CYS21037

Welcome Back user1@gmail.com!

Logout

Codes:

AndroidManifest.xml:

MainActivity.java:

```
package com.example.userlogin;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main),
    (v, insets) -> {
        Insets systemBars =
```

LoginActivity.java:

```
package com.example.userlogin;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class LoginActivity extends AppCompatActivity {
    private EditText emailEditText, passwordEditText;
    private TextView registerLink;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity login);
        emailEditText = findViewById(R.id.emailEditText);
        passwordEditText = findViewById(R.id.passwordEditText);
        loginButton = findViewById(R.id.loginButton);
        registerLink = findViewById(R.id.registerLink);
            @Override
                String email = emailEditText.getText().toString().trim();
                String password =
passwordEditText.getText().toString().trim();
                if (email.isEmpty() || password.isEmpty()) {
getSharedPreferences("UserPrefs", Context.MODE_PRIVATE);
                String registeredEmail =
sharedPreferences.getString("email", null);
                String registeredPassword =
```

RegisterActivity.java:

```
package com.example.userlogin;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class RegisterActivity extends AppCompatActivity {
    private EditText nameEditText, phoneEditText, emailEditText,
    passwordEditText;
    private Button registerButton;

@Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_register);

        nameEditText = findViewById(R.id.nameEditText);
        phoneEditText = findViewById(R.id.namailEditText);
        emailEditText = findViewById(R.id.emailEditText);
```

```
registerButton = findViewById(R.id.registerButton);
                String name = nameEditText.getText().toString().trim();
                String email = emailEditText.getText().toString().trim();
passwordEditText.getText().toString().trim();
                if (name.isEmpty() || phone.isEmpty() || email.isEmpty() ||
password.isEmpty()) {
                    Toast.makeText(RegisterActivity.this, "Please fill all
                editor.putString("email", email);
                editor.apply();
                Toast.makeText(RegisterActivity.this, "Registration
                startActivity(intent);
```

WelcomeActivity.java:

```
package com.example.userlogin;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
```

```
public class WelcomeActivity extends AppCompatActivity {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity welcome);
        logoutButton = findViewById(R.id.logoutButton);
        SharedPreferences sharedPreferences =
getSharedPreferences("UserPrefs", Context.MODE PRIVATE);
        boolean isFirstLogin = sharedPreferences.getBoolean(email +
        if (isFirstLogin) {
            SharedPreferences.Editor editor = sharedPreferences.edit();
            editor.apply();
            welcomeTextView.setText("Welcome back " + email);
            @Override
LoginActivity.class);
                startActivity(intent);
                finish(); // Close this activity
```

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:id="@+id/main"
    android:layout width="match parent"</pre>
```

Activity_login.xml:

```
<androidx.constraintlayout.widget.ConstraintLayout</pre>
   android:layout width="match parent"
   android:layout height="match parent"
   <com.google.android.material.textfield.TextInputLayout</pre>
        android:layout width="match parent"
        android:layout height="wrap content"
        app:layout constraintTop toTopOf="parent"
        android:layout marginTop="32dp">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:layout width="match parent"
            android:layout height="wrap content"
   <com.google.android.material.textfield.TextInputLayout</pre>
        android:layout height="wrap content"
        app:layout constraintTop toBottomOf="@id/emailLayout"
        android:layout marginTop="16dp">
        <com.google.android.material.textfield.TextInputEditText</pre>
            android:id="@+id/passwordEditText"
            android:layout width="match parent"
```

```
android:layout_height="wrap_content"
    android:inputType="textPassword"
    android:backgroundTint="@color/lightGrey"
    android:padding="10dp"/>
</com.google.android.material.textfield.TextInputLayout>

<Button
    android:id="@+id/loginButton"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Login"
    app:layout_constraintTop_toBottomOf="@id/passwordLayout"
    android:layout_marginTop="16dp"
    android:backgroundTint="@color/colorPrimary"
    android:textColor="@color/white"/>

<TextView
    android:d="@+id/registerLink"
    android:layout_width="wrap_content"
    android:text="New user? Register here"
    android:text="New user? Register here"
    android:textColor="@color/colorAccent"
    app:layout_constraintTop_toBottomOf="@id/loginButton"
    app:layout_constraintEnd_toEndOf="parent"
    android:clickable="true"
    android:layout_marginTop="8dp"/>

</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_register.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Activity_welcome.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Colors.xml:

Styles.xml: