**SILIGURI INSTITUTE OF TECHNOLOGY**

**(DIPLOMA COLLEGE)**

**Major Project**

**Topic:** Android App Development

BY

**Diploma \_CST\_PROJECT\_<group A>**

|  |  |
| --- | --- |
| **Name of Students** | **Registration No.** |
| 1.Bhagaban Paul | D202118010 |
| 2.Aniket Saha | D202118007 |
| 3.Jaulphikar Haque | D202118014 |
| 4.Baishali Saha | D202118009 |
| 5.Suman Roy | D202118022 |
| 6.Uddipta Khasnabish | D192020882 |

**Under the Guidance**

**Of**

**Mrs. Sampa Das**

Submitted to the Department of **Diploma in Computer Science and** **Technology** in partial fulfillment of the requirements for the award of the diploma in Technology in **Computer Science and Technology.**

**Year of Submission: 2023**

****

**Siliguri Institute of Technology (Diploma College)**

**P.O. SUKNA, SILIGURI, DIST.DARJEELING, PIN:734009**

[**Tel: (0353)2778002/04**](Tel:(0353)2778002/04)**, Fax: (0353)2778003**

**DECLARATION**

This is certify that Report entitled **“Android App** **Development”** which is submitted by **group A** in partial fulfilment of the requirement for the award of diploma in **Computer Science and Technology** under **West Bengal State Council of Technical & Vocational Education and Skill Development.** We took the help of other materials in our dissertation which have been properly acknowledge. This has not been submitted to any other Institute for the award of any other course.

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**CERTIFIICATE**

This is to certify that the project report entitled **Android App Development.**

Submitted to **Department of Computer Science & Technology** of **Siliguri Institute of Technology (Diploma College)** in partial fulfilment of the requirement for the award of the diploma of Engineering in Computer Science &Technology during the academic year **2022-23,** is a bonafide record of the project work carried out by them under my guidance and supervision.

|  |  |  |
| --- | --- | --- |
| **Name of the student** | **Registration No** | **Roll No** |
| 1.Bhagaban Paul | D202118010 | DSILCSTS6-10018161 |
| 2.Aniket Saha | D202118007 | DSILCSTS6-10018158 |
| 3.Julphikar Haque | D202118014 | DSILCSTS6-10018165 |
| 4.Baishali Saha | D202118007 | DSILCSTS6-10018160 |
| 5.Uddipta Khasnabish | D192020882 | DSILCSTS6-10021196 |
| 6.Suman Roy | D202118022 | DSILCSTS6-10018173 |

**Project Group Name:**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Signature of Project Guide \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name of the Guide: Department**

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Acknowledgement

I would like to express my deepest appreciation to all those who provided me the possibility to complete this report. A special gratitude I give to our final year project mentor. Ms Sampa Das, Whose contribution in stimulating suggestions and encouragement, helped me to coordinate my project especially in writing this report.

Furthermore, I would also like to acknowledge with much appreciation the crucial role of the faculty members of the computer science department who gave the permission to use all required equipment and the necessary material to complete the task. A special thanks goes to my team mates, who help me to assemble the parts and gave suggestion about the project.

**Signature of all group members with date…….**

1.Bhagaban Paul. **--------------------------------------------**

2.Aniket Saha. **--------------------------------------------**

3.Julphikar Haque. **--------------------------------------------**

4.Baishali Saha. **--------------------------------------------**

5.Suman Roy. **--------------------------------------------**

6.Uddipta Khasnabish. **--------------------------------------------**

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Objective: -

The objective of Android app development is to create mobile applications that run on the Android operating system, providing value and solving specific problems for users. These apps are designed to be user-friendly, efficient, and compatible with a wide range of Android devices. The main goals include:

* Meeting User Needs: Develop apps that cater to the specific needs and preferences of the target audience, offering solutions to their problems or enhancing their experiences.
* User Interface (UI) and User Experience (UX): Design intuitive and visually appealing interfaces that make navigation easy and enjoyable, ensuring a positive user experience.
* Functionality: Implement the desired features and functionalities that align with the app's purpose and provide value to users.
* Performance: Optimize the app's performance to ensure smooth and responsive operation, minimizing loading times and resource usage.
* Compatibility: Ensure the app works seamlessly across various Android devices, screen sizes, and operating system versions.
* Security: Prioritize data security and user privacy, incorporating measures such as encryption and secure authentication.
* Testing and Quality Assurance: Thoroughly test the app to identify and fix bugs, ensuring a stable and reliable application.
* Deployment: Successfully deploy the app to the Google Play Store or other distribution platforms, making it accessible to a broader audience.

By focusing on these objectives, Android app development aims to provide users with valuable, efficient, and enjoyable mobile experiences that meet their needs and expectations.

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Why Android App Development: -

1. **Wide User Base**: Android has a larger market share globally, providing access to a vast user base and potential customers.
2. **Open-Source Platform**: Android's open-source nature allows for more customization and control over the app development process.
3. **Cost-Effective**: Developing for Android can be more cost-effective due to lower barriers to entry, no licensing fees, and affordable testing devices.
4. **Easy Deployment**: Publishing your app on the Google Play Store is a straightforward process, allowing quick distribution to millions of users.
5. **Diverse Hardware Compatibility**: Android apps can run on a wide range of devices with varying screen sizes and specifications.
6. **Multiple Development Languages**: Android supports multiple programming languages like Java, Kotlin, and C++, providing flexibility for developers.
7. **Rich Development Tools**: Android Studio, the official IDE for Android, offers robust tools for coding, testing, and debugging applications.
8. **Integration with Google Services**: Android apps can seamlessly integrate with Google's services like Maps, Firebase, and Google Drive, enhancing functionality.
9. **Continuous Updates**: Android regularly receives updates, ensuring your app can leverage the latest features and security improvements.
10. **Monetization Opportunities**: Android apps provide various monetization options, such as in-app purchases, ads, and subscription models.
11. **Support for Emerging Technologies**: Android supports cutting-edge technologies like ARCore (Augmented Reality) and machine learning libraries, opening doors for innovative app ideas.
12. **Community Support**: The large and active Android developer community offers resources, forums, and solutions to support your app development journey.

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**Software Requirement: -**

1. Operating System: Choose an operating system that is compatible with the software components of the college management system.

such as Windows Serve.

1. Database Management System: Select a reliable and efficient database management system (DBMS) to store and manage the system's data.

such as SQLite.

1. Web Server: Deploy a web server software like

Apache, Nginx, or

Microsoft IIS to host the college management system.

1. Programming Language/Framework: Depending on the development approach, we may require programming languages like

Java along with relevant frameworks and libraries.

1. Front-end Technologies: i. XML,

ii. Java for creating an intuitive and interactive user interface.

**Hardware Requirement: -**

1. Android Phone
2. Android OS: Android 5
3. Processor: Qualcomm's Snapdragon 210, or Spread Trum’s SC7731 series.
4. RAM:500mb
5. Storage: 2mb

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**Student Aspect: -**

* Request Registration.
* Logging in to the system.
* Check result
* Check notice
* Payment
* Download eBook’s
* Download syllabus

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**DFD**

**STUDENT**

Loging

Register

StoreData

Get logging ID

Input

Output

**FACALTY**

Inquiry for E-Books Inquiry for Fees Inquiry for Result

**Fig No 1:** DFD (Data Flow Diagram)

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ER Diagram

ID

IDNAME

Student

PASS

DPC

BELONGS TO

Notice

Operation’s

Syllabus Check

Fees Check

Result check

Fig No 2: ER Diagram (Entity- Relationship Diagram) )Diagram)

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**Testing: -**

Software testing is the process used to help identify the correctness, completeness, security, and quality of developed computer software. Testing is a process of executing a program or application with the intent of finding errors. With that in mind, testing can never completely establish the correctness of arbitrary computer software. In other words, testing is criticism or comparison that is comparing the actual value with an expected one. An important point is that software testing should be distinguished from the separate discipline of software quality assurance, which encompasses all business process areas, not just testing.

Software Testing Techniques: -

The importance of software testing and its impact on software cannot be underestimated. Software testing is a fundamental component of software quality assurance and represents a review of specification, design and coding. The greater visibility of software systems and the cost associated with software failure are motivating factors for planning, through testing. It is not uncommon for a software organization to spent 40% of its effort on testing.

White Box Testing: -

White box testing strategy deals with the internal logic and structure of the code. White box testing is also called as glass, structural, open box or clear box testing. The tests written based on the white box testing strategy incorporate coverage of the code written, branches, paths, statements and internal logic of the code etc. In order to implement white box testing, the tester has to deal with the code and hence is needed to possess knowledge of coding and logic i.e., internal working of the code.

There are various types of white box testing strategies:

Basis Path Testing, Control Structure Testing, Unit Testing

Black Box Testing: -

Black Box Testing is not a type of testing; it instead is a testing strategy, which does not need any knowledge of internal design or code etc. As the name "black box" suggests, no knowledge of internal logic or code structure is required. The types of testing under this strategy are totally based/focused on the testing for requirements and functionality of the product/software application.

There are various types of black box testing. They are:

Functional Testing, Smoke Testing, Recovery Testing, Alpha Testing, Beta Testing.

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**Code: -**

package com.example.sit;

import androidx.appcompat.app.AppCompatActivity;

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.TextView;

import android.widget.Toast;

public class loginActivity extends AppCompatActivity {

EditText textid,textpass;

Button btnlog;

TextView usertxt;

MyDBHelper db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_login*);

textid = findViewById(R.id.*editText2*);

textpass = findViewById(R.id.*editText3*);

btnlog = findViewById(R.id.*buttonlog*);

usertxt = findViewById(R.id.*regtext*);

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db = new MyDBHelper(this);

btnlog .setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String id = textid.getText().toString();

String psssword = textpass.getText().toString();

if(id.equals("") || psssword.equals("")){

Toast.*makeText*(loginActivity.this, "plese enter detials", Toast.*LENGTH\_SHORT*).show();

}

else

{

Boolean result = db.Checkidorpass(id,psssword);

if(result==true){

startActivity(new Intent(loginActivity.this, Home.class));

}

else {

Toast.*makeText*(loginActivity.this, "Invalid", Toast.*LENGTH\_SHORT*).show();

}

}

}

});

usertxt.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(loginActivity.this,Regster.class));

}

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P

});

}

}

package com.example.sit;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import com.denzcoskun.imageslider.ImageSlider;

import com.denzcoskun.imageslider.constants.ScaleTypes;

import com.denzcoskun.imageslider.models.SlideModel;

import java.util.ArrayList;

public class Home extends AppCompatActivity {

Button web,web1,web2,web3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_home*);

ArrayList<SlideModel> imageList = new ArrayList<>();

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imageList.add(new SlideModel(R.drawable.*c*, "Plsement 2023", ScaleTypes.*CENTER\_CROP* ));

imageList.add(new SlideModel(R.drawable.*b*, "Diploma batch", ScaleTypes.*CENTER\_CROP*));

imageList.add(new SlideModel(R.drawable.*a*, "Sit",ScaleTypes.*CENTER\_CROP*));

imageList.add(new SlideModel(R.drawable.*d*, "2023",ScaleTypes.*CENTER\_CROP*));

ImageSlider imageSlider = findViewById(R.id.*image\_slider*);

imageSlider.setImageList(imageList);

web =findViewById(R.id.*Syllabus*);

web1 =findViewById(R.id.*Ebook*);

web2 =findViewById(R.id.*Fees*);

web3 =findViewById(R.id.*Result*);

web.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://webscte.co.in/web-Learning");

}

});

web1.setOnClickListener((new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://webscte.co.in/web-Learning");

}

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}));

web2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://www.sittechno.org/diploma-polytechnic-cst-ete-ee-me-ce.html");

}

});

web3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://webscte.co.in/");

}

});

}

private void gotoUrl(String s) {

Uri uri = Uri.*parse*(s);

startActivity(new Intent(Intent.*ACTION\_VIEW*,uri));

}

}

<?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:clipToPadding="true"

Page **|16**

android:visibility="visible"

tools:context=".loginActivity"

android:background="@color/black">

<ImageView

android:id="@+id/imageView3"

android:layout\_width="430dp"

android:layout\_height="760dp"

android:alpha="0.40"

android:scaleType="fitXY"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.947"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.896"

app:srcCompat="@drawable/sitimg" />

<TextView

android:id="@+id/textView3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="187dp"

android:background="#1329A1"

android:padding="30dp"

android:text="LOGIN"

android:textColor="@color/white"

android:textSize="60dp"

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android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.997"

app:layout\_constraintStart\_toEndOf="@+id/imageView4"

app:layout\_constraintStart\_toStartOf="@+id/imageView3"

app:layout\_constraintTop\_toTopOf="@+id/imageView3"

app:layout\_constraintVertical\_bias="0.139" />

<EditText

android:id="@+id/editText2"

android:layout\_width="291dp"

android:layout\_height="53dp"

android:background="@drawable/input"

android:drawableStart="@drawable/account"

android:hint="Enter the ID"

android:paddingStart="12dp"

android:paddingEnd="12dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.562"

app:layout\_constraintStart\_toStartOf="@+id/imageView3"

app:layout\_constraintTop\_toBottomOf="@+id/textView3"

app:layout\_constraintVertical\_bias="0.289" />

<Button

android:id="@+id/buttonlog"

android:layout\_width="154dp"

android:layout\_height="68dp"

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android:layout\_marginTop="36dp"

android:backgroundTint="#F2DD24"

android:text="LOGIN"

android:textSize="30dp"

app:layout\_constraintEnd\_toEndOf="@+id/editText3"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="@+id/editText3"

app:layout\_constraintTop\_toBottomOf="@+id/editText3" />

<EditText

android:id="@+id/editText3"

android:layout\_width="291dp"

android:layout\_height="53dp"

android:background="@drawable/input"

android:drawableStart="@drawable/lock"

android:hint="Password"

android:inputType="textPassword"

android:paddingStart="12dp"

android:paddingEnd="12dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/editText2"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/editText2"

app:layout\_constraintTop\_toBottomOf="@+id/editText2"

app:layout\_constraintVertical\_bias="0.073" />

<ImageView

android:id="@+id/imageView4"

android:layout\_width="159dp"

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android:layout\_height="139dp"

android:background="#F6F0F0"

app:layout\_constraintBottom\_toBottomOf="@+id/textView3"

app:layout\_constraintEnd\_toStartOf="@+id/textView3"

app:layout\_constraintTop\_toTopOf="@+id/textView3"

app:layout\_constraintVertical\_bias="1.0"

app:srcCompat="@drawable/logo" />

<TextView

android:id="@+id/regtext"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="88dp"

android:text="Register for new user"

android:textColor="@color/white"

android:textSize="19dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/buttonlog"

app:layout\_constraintHorizontal\_bias="0.481"

app:layout\_constraintStart\_toStartOf="@+id/buttonlog"

app:layout\_constraintTop\_toBottomOf="@+id/buttonlog"

app:layout\_constraintVertical\_bias="0.361" />

</androidx.constraintlayout.widget.ConstraintLayout>

<?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"

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xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="@drawable/sitimg"

tools:context=".Home">

<RelativeLayout

android:id="@+id/relativeLayout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:layout\_editor\_absoluteX="0dp"

tools:layout\_editor\_absoluteY="0dp">

<com.denzcoskun.imageslider.ImageSlider

android:id="@+id/image\_slider"

android:layout\_width="wrap\_content"

android:layout\_height="300dp"

app:iss\_auto\_cycle="true"

app:iss\_delay="1000"

app:iss\_period="1000"

app:iss\_text\_align="CENTER" />

</RelativeLayout>

<Button

android:id="@+id/Syllabus"

android:layout\_width="352dp"

android:layout\_height="62dp"

android:layout\_marginStart="100dp"

android:layout\_marginTop="100dp"

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android:layout\_marginEnd="100dp"

android:layout\_marginBottom="100dp"

android:backgroundTint="#051A8E"

android:text="Syllabus"

android:textColor="#F4C20B"

android:textSize="30dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.491"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<Button

android:id="@+id/Fees"

android:layout\_width="352dp"

android:layout\_height="62dp"

android:backgroundTint="#051A8E"

android:text="Fees"

android:textColor="#F4C20B"

android:textSize="30dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/Result"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/Result"

app:layout\_constraintTop\_toBottomOf="@+id/Result"

app:layout\_constraintVertical\_bias="0.178" />

<Button

android:id="@+id/Result"

Page **|22**

android:layout\_width="352dp"

android:layout\_height="62dp"

android:layout\_marginTop="12dp"

android:backgroundTint="#051A8E"

android:textSize="30dp"

android:text="Result"

android:textColor="#F4C20B"

app:layout\_constraintEnd\_toEndOf="@+id/Ebook"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/Ebook"

app:layout\_constraintTop\_toBottomOf="@+id/Ebook" />

<Button

android:id="@+id/Ebook"

android:layout\_width="352dp"

android:layout\_height="62dp"

android:layout\_marginTop="12dp"

android:backgroundTint="#051A8E"

android:text="E-Books"

android:textColor="#F4C20B"

android:textSize="30dp"

app:layout\_constraintEnd\_toEndOf="@+id/Syllabus"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/Syllabus"

app:layout\_constraintTop\_toBottomOf="@+id/Syllabus" />

</androidx.constraintlayout.widget.ConstraintLayout>

Page **|23**

package com.example.sit;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

import com.denzcoskun.imageslider.ImageSlider;

import com.denzcoskun.imageslider.constants.ScaleTypes;

import com.denzcoskun.imageslider.models.SlideModel;

import java.util.ArrayList;

public class Home extends AppCompatActivity {

Button web,web1,web2,web3;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_home*);

ArrayList<SlideModel> imageList = new ArrayList<>();

Page **|24**

imageList.add(new SlideModel(R.drawable.*c*, "Plsement 2023", ScaleTypes.*CENTER\_CROP* ));

imageList.add(new SlideModel(R.drawable.*b*, "Diploma batch", ScaleTypes.*CENTER\_CROP*));

imageList.add(new SlideModel(R.drawable.*a*, "Sit",ScaleTypes.*CENTER\_CROP*));

imageList.add(new SlideModel(R.drawable.*d*, "2023",ScaleTypes.*CENTER\_CROP*));

ImageSlider imageSlider = findViewById(R.id.*image\_slider*);

imageSlider.setImageList(imageList);

web =findViewById(R.id.*Syllabus*);

web1 =findViewById(R.id.*Ebook*);

web2 =findViewById(R.id.*Fees*);

web3 =findViewById(R.id.*Result*);

web.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://webscte.co.in/web-Learning");

}

});

web1.setOnClickListener((new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://webscte.co.in/web-Learning");

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}

}));

web2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://www.sittechno.org/diploma-polytechnic-cst-ete-ee-me-ce.html");

}

});

web3.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

gotoUrl("https://webscte.co.in/");

}

});

}

private void gotoUrl(String s) {

Uri uri = Uri.*parse*(s);

startActivity(new Intent(Intent.*ACTION\_VIEW*,uri));

}

}

package com.example.sit;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.DatabaseUtils;

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import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import java.util.ArrayList;

import java.util.HashMap;

public class MyDBHelper extends SQLiteOpenHelper {

public static final String *DATABASE\_NAME* = "MyDBUsers.db";

public static final String *CONTACTS\_TABLE\_NAME* = "tblUsers";

public static final String *COLUMN\_ID* = "idname";

public static final String *COLUMN\_NAME* = "id";

public static final String *COLUMN\_EMAIL* = "dpt";

public static final String *COLUMN\_PASS* = "pass";

public MyDBHelper(Context context) {

super(context, *DATABASE\_NAME* , null, 1);

}

@Override

public void onCreate(SQLiteDatabase db) {

db.execSQL("create table tblUsers(idname text, id text primary key,dpt text, pass text)");

}

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@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

db.execSQL("drop Table if exists tblUsers");

}

public Boolean insertdata(String idname, String id, String dpt, String pass) {

SQLiteDatabase db = this.getWritableDatabase();

ContentValues contentValues = new ContentValues();

contentValues.put("idname",idname);

contentValues.put("id",id);

contentValues.put("dpt",dpt);

contentValues.put("pass",pass);

long result = db.insert("tblUsers", null, contentValues);

if(result == -1){

return false;

}

else {

return true;

}

}

public Boolean checkusername(String id ){

SQLiteDatabase db = this.getWritableDatabase();

Cursor coursor = db.rawQuery("select \* from tblUsers where id = ?",new String[] {id});

if(coursor.getCount()>0){

return true;

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}

else {

return false;

}

}

public Boolean Checkidorpass(String id ,String pass){

SQLiteDatabase db = this.getWritableDatabase();

Cursor corsor = db.rawQuery("select \* from tblUsers where id = ? and pass = ?",new String[] {id,pass});

if (corsor.getCount()>0){

return true;

}

else{

return false;

}

}

}

package com.example.sit;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

Page **|29**

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.TextView;

import android.widget.Toast;

public class loginActivity extends AppCompatActivity {

EditText textid,textpass;

Button btnlog;

TextView usertxt;

MyDBHelper db;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_login*);

textid = findViewById(R.id.*editText2*);

textpass = findViewById(R.id.*editText3*);

btnlog = findViewById(R.id.*buttonlog*);

usertxt = findViewById(R.id.*regtext*);

db = new MyDBHelper(this);

btnlog .setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String id = textid.getText().toString();

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String psssword = textpass.getText().toString();

if(id.equals("") || psssword.equals("")){

Toast.*makeText*(loginActivity.this, "plese enter detials", Toast.*LENGTH\_SHORT*).show();

}

else

{

Boolean result = db.Checkidorpass(id,psssword);

if(result==true){

startActivity(new Intent(loginActivity.this, Home.class));

}

else {

Toast.*makeText*(loginActivity.this, "Invalid", Toast.*LENGTH\_SHORT*).show();

}

}

}

});

usertxt.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(loginActivity.this,Regster.class));

}

});

}

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}

<?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:clipToPadding="true"

android:visibility="visible"

tools:context=".loginActivity"

android:background="@color/black">

<ImageView

android:id="@+id/imageView3"

android:layout\_width="430dp"

android:layout\_height="760dp"

android:alpha="0.40"

android:scaleType="fitXY"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.947"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.896"

app:srcCompat="@drawable/sitimg" />

<TextView

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android:id="@+id/textView3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginStart="187dp"

android:background="#1329A1"

android:padding="30dp"

android:text="LOGIN"

android:textColor="@color/white"

android:textSize="60dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.997"

app:layout\_constraintStart\_toEndOf="@+id/imageView4"

app:layout\_constraintStart\_toStartOf="@+id/imageView3"

app:layout\_constraintTop\_toTopOf="@+id/imageView3"

app:layout\_constraintVertical\_bias="0.139" />

<EditText

android:id="@+id/editText2"

android:layout\_width="291dp"

android:layout\_height="53dp"

android:background="@drawable/input"

android:drawableStart="@drawable/account"

android:hint="Enter the ID"

android:paddingStart="12dp"

android:paddingEnd="12dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

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app:layout\_constraintHorizontal\_bias="0.562"

app:layout\_constraintStart\_toStartOf="@+id/imageView3"

app:layout\_constraintTop\_toBottomOf="@+id/textView3"

app:layout\_constraintVertical\_bias="0.289" />

<Button

android:id="@+id/buttonlog"

android:layout\_width="154dp"

android:layout\_height="68dp"

android:layout\_marginTop="36dp"

android:backgroundTint="#F2DD24"

android:text="LOGIN"

android:textSize="30dp"

app:layout\_constraintEnd\_toEndOf="@+id/editText3"

app:layout\_constraintHorizontal\_bias="0.496"

app:layout\_constraintStart\_toStartOf="@+id/editText3"

app:layout\_constraintTop\_toBottomOf="@+id/editText3" />

<EditText

android:id="@+id/editText3"

android:layout\_width="291dp"

android:layout\_height="53dp"

android:background="@drawable/input"

android:drawableStart="@drawable/lock"

android:hint="Password"

android:inputType="textPassword"

android:paddingStart="12dp"

android:paddingEnd="12dp"

app:layout\_constraintBottom\_toBottomOf="parent"

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app:layout\_constraintEnd\_toEndOf="@+id/editText2"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/editText2"

app:layout\_constraintTop\_toBottomOf="@+id/editText2"

app:layout\_constraintVertical\_bias="0.073" />

<ImageView

android:id="@+id/imageView4"

android:layout\_width="159dp"

android:layout\_height="139dp"

android:background="#F6F0F0"

app:layout\_constraintBottom\_toBottomOf="@+id/textView3"

app:layout\_constraintEnd\_toStartOf="@+id/textView3"

app:layout\_constraintTop\_toTopOf="@+id/textView3"

app:layout\_constraintVertical\_bias="1.0"

app:srcCompat="@drawable/logo" />

<TextView

android:id="@+id/regtext"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginBottom="88dp"

android:text="Register for new user"

android:textColor="@color/white"

android:textSize="19dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/buttonlog"

app:layout\_constraintHorizontal\_bias="0.481"

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app:layout\_constraintStart\_toStartOf="@+id/buttonlog"

app:layout\_constraintTop\_toBottomOf="@+id/buttonlog"

app:layout\_constraintVertical\_bias="0.361" />

</androidx.constraintlayout.widget.ConstraintLayout>

package com.example.sit;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button btn,btn2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

btn = findViewById(R.id.*buttonlogin*);

btn2 = findViewById(R.id.*buttonsingup*);

btn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, loginActivity.class));

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}

});

btn2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, Regster.class));

}

});

}

}

<?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="#BFBFBF"

tools:context=".Regster">

<EditText

android:id="@+id/editText7"

android:layout\_width="342dp"

android:layout\_height="46dp"

android:background="@drawable/input"

android:hint="Confirm Password"

android:inputType="textPassword"

app:layout\_constraintBottom\_toBottomOf="parent"

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app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.704" />

<EditText

android:id="@+id/editText4"

android:layout\_width="342dp"

android:layout\_height="46dp"

android:background="@drawable/input"

android:hint="NAME"

app:layout\_constraintBottom\_toTopOf="@+id/editText"

app:layout\_constraintEnd\_toEndOf="@+id/imageView5"

app:layout\_constraintHorizontal\_bias="0.502"

app:layout\_constraintStart\_toStartOf="@+id/imageView5"

app:layout\_constraintTop\_toBottomOf="@+id/imageView5"

app:layout\_constraintVertical\_bias="1.0"

app:layout\_constraintVertical\_chainStyle="spread" />

<EditText

android:id="@+id/editText6"

android:layout\_width="342dp"

android:layout\_height="46dp"

android:background="@drawable/input"

android:hint="Department (ce,cst,ec,ece)"

app:layout\_constraintBottom\_toTopOf="@+id/editText5"

app:layout\_constraintEnd\_toEndOf="@+id/editText"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/editText"

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app:layout\_constraintTop\_toBottomOf="@+id/editText"

app:layout\_constraintVertical\_bias="0.5" />

<EditText

android:id="@+id/editText5"

android:layout\_width="342dp"

android:layout\_height="46dp"

android:background="@drawable/input"

android:hint="Password"

android:inputType="textPassword"

app:layout\_constraintBottom\_toTopOf="@+id/editText7"

app:layout\_constraintEnd\_toEndOf="@+id/editText6"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/editText6"

app:layout\_constraintTop\_toBottomOf="@+id/editText6"

app:layout\_constraintVertical\_bias="0.5" />

<Button

android:id="@+id/button"

android:layout\_width="198dp"

android:layout\_height="52dp"

android:backgroundTint="#FFEB3B"

android:text="SUBMIT"

android:textColor="@color/black"

android:textSize="20dp"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/editText7"

app:layout\_constraintStart\_toStartOf="@+id/editText7"

app:layout\_constraintTop\_toBottomOf="@+id/editText7"

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app:layout\_constraintVertical\_bias="0.385" />

<EditText

android:id="@+id/editText"

android:layout\_width="342dp"

android:layout\_height="46dp"

android:background="@drawable/input"

android:hint="Collage ID"

app:layout\_constraintBottom\_toTopOf="@+id/editText6"

app:layout\_constraintEnd\_toEndOf="@+id/editText4"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/editText4"

app:layout\_constraintTop\_toBottomOf="@+id/editText4"

app:layout\_constraintVertical\_bias="0.5" />

<ImageView

android:id="@+id/imageView5"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:src="@drawable/logo"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.501"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.045" />

<TextView

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android:id="@+id/textView4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Already have an account "

android:textSize="19dp"

android:textStyle="bold"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="@+id/button"

app:layout\_constraintHorizontal\_bias="0.0"

app:layout\_constraintStart\_toStartOf="@+id/button"

app:layout\_constraintTop\_toBottomOf="@+id/button" />

</androidx.constraintlayout.widget.ConstraintLayout>

//

// Source code recreated from a .class file by IntelliJ IDEA

// (powered by FernFlower decompiler)

//

package android.widget;

import android.content.Context;

import android.text.Editable;

import android.text.TextUtils;

import android.text.method.MovementMethod;

import android.util.AttributeSet;

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import android.view.KeyEvent;

public class EditText extends TextView {

public EditText(Context context) {

super((Context)null);

throw new RuntimeException("Stub!");

}

public EditText(Context context, AttributeSet attrs) {

super((Context)null);

throw new RuntimeException("Stub!");

}

public EditText(Context context, AttributeSet attrs, int defStyleAttr) {

super((Context)null);

throw new RuntimeException("Stub!");

}

public EditText(Context context, AttributeSet attrs, int defStyleAttr, int defStyleRes) {

super((Context)null);

throw new RuntimeException("Stub!");

}

public boolean getFreezesText() {

throw new RuntimeException("Stub!");

}

protected boolean getDefaultEditable() {

throw new RuntimeException("Stub!");

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}

protected MovementMethod getDefaultMovementMethod() {

throw new RuntimeException("Stub!");

}

public Editable getText() {

throw new RuntimeException("Stub!");

}

public void setText(CharSequence text, TextView.BufferType type) {

throw new RuntimeException("Stub!");

}

public void setSelection(int start, int stop) {

throw new RuntimeException("Stub!");

}

public void setSelection(int index) {

throw new RuntimeException("Stub!");

}

public void selectAll() {

throw new RuntimeException("Stub!");

}

public void extendSelection(int index) {

throw new RuntimeException("Stub!");

}

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public void setEllipsize(TextUtils.TruncateAt ellipsis) {

throw new RuntimeException("Stub!");

}

public CharSequence getAccessibilityClassName() {

throw new RuntimeException("Stub!");

}

public boolean onKeyShortcut(int keyCode, KeyEvent event) {

throw new RuntimeException("Stub!");

}

public boolean onTextContextMenuItem(int id) {

throw new RuntimeException("Stub!");

}

public void setStyleShortcutsEnabled(boolean enabled) {

throw new RuntimeException("Stub!");

}

public boolean isStyleShortcutEnabled() {

throw new RuntimeException("Stub!");

}

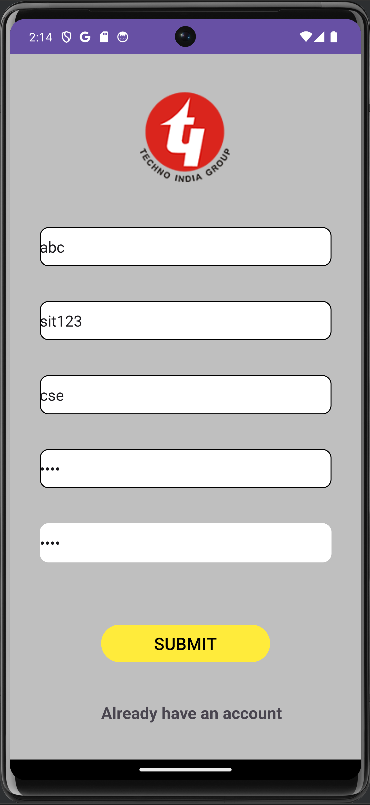
}

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Loging/Sing up Page

Sign Up Page

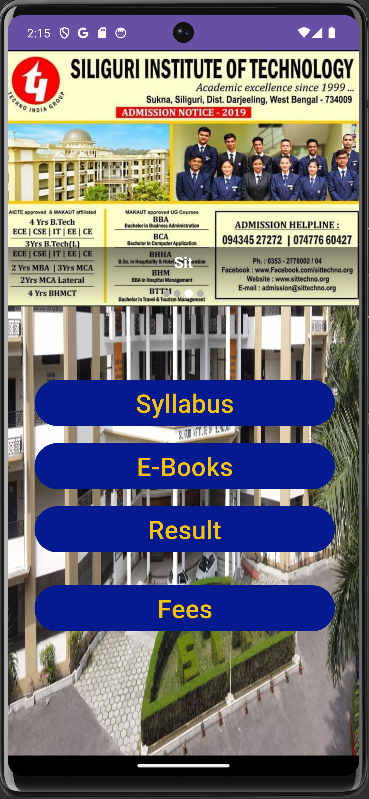


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Login Page

Home Page



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**Cost Management: -**

Cost management for Android app development refers to the systematic planning, estimation, monitoring, and control of expenses throughout the app development process. It involves accurately estimating the budget required for various project components, allocating resources efficiently, optimizing costs without compromising quality, and implementing measures to stay within the budget constraints. The goal of cost management is to deliver a successful app while effectively utilizing resources and ensuring financial viability.

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**Conclusion: -**

The College Management System is a software application designed to streamline and automate various administrative and academic processes within a college or educational institution.

Our project is all about gathering student information. First, open our application, then input all the details to obtain a login ID and password. Next, use these credentials to log into our application and access all the features, such as checking results, viewing syllabi, paying fees, and checking college notifications.

THANK You …

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