

LEARNING APP DEVELOPMENT USING CLOUD COMPUTING

*Minor project report submitted
in partial fulfillment of the requirement for award of the degree of*

**Bachelor of Technology
in
Computer Science & Engineering**

By

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(Deemed to be University Estd u/s 3 of UGC Act, 1956)**

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CHENNAI 600 062, TAMILNADU, INDIA
June,2021**

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It is certified that the work contained in the project report titled "LEARNING APP DEVELOPMENT USING CLOUD COMPUTING" by "RAYI MAHI PRANEETH (18UECS0731) SURESH GEDELA (18UECS0276) T. RAGA VARSHINI (18UECS0848)" has been carried out under my/our supervision and that this work has not been submitted elsewhere for a degree.

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We express our deepest gratitude to our respected **Founder Chancellor and President Col. Prof. Dr. R. RANGARAJAN B.E. (EEE), B.E. (MECH), M.S (AUTO). DSc., Foundress President Dr. R. SAGUNTHALA RANGARAJAN M.B.B.S.** Chairperson Managing Trustee and Vice President.

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ABSTRACT

This project is an online portal between students and faculty. This innovative system allows college faculty to share important data as well as notifications with student. At some organizations faculty and students share the information or documents via papers and files only, which may sometimes lead to loss of any documents or important information too. To develop a new approach to sharing information between students and lecturers in order to enhance quality of information in campus environment. This innovative system allows college faculty to share important data as well as notifications with engineering students. Faculty may upload documents of subject syllabus, timetable document, notifications, notes etc. through their provided login. The documents are uploaded by faculty to different corresponding departments. We propose to build this system on an online server that allows faculty to upload data and students may view search and download required documents through their android device.

Keywords: File Sharing System, E-Learning System, Cloud Computing.

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LIST OF ACRONYMS AND ABBREVIATIONS

SDK	Software Development kit
APK	Android Package kit
API	Application Programming Interface

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Chapter 1

INTRODUCTION

1.1 Introduction

The project is an online portal between student and faculty. This innovative system allows college faculty to share important data with students. It consists of a faculty login along with student login. Faculty may upload documents of subject syllabus, time table, e-notes etc. Through their provided log in. The purpose to build this system on an online server that allows faculty to upload data and students may view and download required documents through their android device. This project has a login page which allows only the registered user to login and thereby preventing unauthorized access. This system can be used to view all the syllabus, updates details. The android mobile user will be able make quick download from anywhere using internet. Over the last few years, there has been a drastic change in information technology. This includes the various ways in which files can be shared and stored.

Cloud computing is publicized as the next major step for all forms of typical information technology use. From businesses, to non-profit organisations, to single users, there seems to be various applications which can use cloud computing to offer better, faster, and smarter computing.

1.2 Aim of the project

To ensure that each and every student can get the preferred documents and desired contents regarding the courses at any moment through android application. The proposed App is worked on the cloud server and all the files, documents are uploaded on the cloud server. The students need sign in mobile application to view and download document.

1.3 Project Domain

Mobile Application Development and Cloud Computing

1.4 Scope of the Project

The scope of the project is to create an android application so that each student can access study materials, books through preferred login credentials.

1.5 Methodology

Android Operating System is a relatively new mobile Operating System which has been steadily taking over more and more market stake. Easy to use, easy to develop for, and open-source, it has picked up a following of developers who want to create content for the masses. This project aims to combine the two, building a cloud based application for Android, offering users the power of cloud computing in the palm of their hand for file sharing and collaboration.

Chapter 2

LITERATURE REVIEW

Baban, Hediye, and Salimah Mokhtar. "Online document management system for academic institutes." In 2020 3rd International Conference on Information Management, Innovation Management and Industrial Engineering, vol. 4, pp. 315-319. IEEE, 2020. Developed for associate degree engineering faculty to keep up and facilitate quick access to info. For this the users should be registered with the system when that they'll access further as modify information as per the permissions given to them. students and their oldsters also will read results, group action and information details mistreatment this application. we have a tendency to tend to ascertain the models of the varsity students management data by adopting the advanced data technology, and construct the scholar management data platform.

K. Konishi and N. F. Ikeda, "Data model and architecture of a paper digital document management system," in DocEng '07: Proceedings of the 2019 ACM symposium on Document engineering. New York, NY, USA: ACM, 2019, pp. 29–31. On the thought of a comprehensive investigation and analysis on the scholar management in instruction, we have a tendency to tend to ascertain the models of the varsity students management data by adopting the advanced data technology, and

construct the scholar management data platform. Moreover, we have a tendency to tend to investigate the characteristics of the information management in instruction, and elaborate the ways to unravel the difficulties endeavor at intervals the scholars management of the higher education,.For this the users should be registered with the system when that they'll access further as modify information as per the permissions given to them.

Isaeva, Masuda, and Hyen Young Yoon. "Paperless university—How we can make it work?." In 2017 15th International Conference on Information Technology Based Higher Education and Training (ITHET), pp. 1-8. IEEE, 2018.On the thought of a comprehensive investigation and analysis on the scholar management in instruction, we have a tendency to tend to ascertain the models of the varsity students management data by adopting the advanced data technology, and construct the scholar management data platform. Moreover, we have a tendency to tend to investigate the characteristics of the information management in instruction, and elaborate the ways to unravel the difficulties endeavor at intervals the scholars management of the higher education.students and their oldsters also will read results, group action and information details mistreatment this application.

Chapter 3

PROJECT DESCRIPTION

3.1 Existing System

Only registered users can access the system. The user cannot view or download any information in the system when the server is down. The students can view only the data related to the particular semester. The remaining data is hidden to them. Also, at some organization even the above mentioned existing system is not even exist and faculty and students share the information or documents via papers and files only, which may sometimes lead to loss of any documents or important information too.

3.2 Proposed System

The server allows the faculty to upload the data and the students can see and download the required documents through the android device. the faculty can upload or modify the documents to any semester as desired. The proposed system is worked on the server and all the files and documents are uploaded in the server. The students just need sign in through mobile application to view and download document .

Proposed system saves lots of time of both faculties and students.

Advantages

- Changing requirements can be accommodated
- Decrease in Human Effort.
- Allows extensive use of prototypes
- Requirements can be captured more accurately
- users see the system early
- development can be divided into smaller parts and the risky parts can be developed earlier which helps in better risk management.

3.3 Feasibility Study

3.3.1 Economic Feasibility

As the project is an android app it is cost efficient and small amount of data is sufficient to install and download documents. When Compare to document sharing using papers the project E-learning economically efficient.

3.3.2 Technical Feasibility

As the project is an android app there is a technical works and delays but comparing with document sharing using papers the project is technically feasible and it reduces loss of information.

3.3.3 Social Feasibility

As the project is an android application by socially it will not create any harm to society it will decrease the human effort.

3.4 System Specification

3.4.1 Hardware Specification

- Processor-i3 or more
- HDD: more than 5 gb
- HDR: 4GB
- Android device

3.4.2 Software Specification

- Windows 7 or higher
- android studio
- emulator
- notepad++

3.4.3 Standards and Policies

Virtually every academic course has a course syllabus that lists the course goals, sets a course schedule, identifies course texts and other required materials, and explains how to contact the instructor outside of scheduled class activities. Typically a course syllabus also sets forth general criteria used to administer the course, such as an attendance policy, and a grading policy that explains how student performance will be evaluated. In an e-learning course, you should post the course syllabus on the course site and include several additional policy statements. First, because e-learning involves electronic communication,

advise students to visit the course site once a day to view new announcements and require them to read e-mail daily to peruse course information disseminated via this medium. Second, inform students that whenever they submit course assignments by e-mail or on CD or disk, they are responsible for assuring that computer files holding these assignments are virus-free; files that fail your institution's virus checker software will not be opened or accepted. Finally, your course syllabus should contain a statement to the effect that ignorance of course policies set forth in the syllabus or posted elsewhere on the course site is not an excuse for failure to conform to these policies. Privacy policies and related procedures protect a student's legal right to privacy and confidentiality. Most educational institutions in the United States have a student privacy policy consonant with the Family Educational Rights and Privacy Act (FERPA).¹ If your institution's policy is available online, post a link to it on your course site; otherwise, post a copy of the policy itself. Of course, you should also post your own student privacy policy if it is distinct from that of the institution.

Chapter 4

MODULE DESCRIPTION

4.1 General Architecture

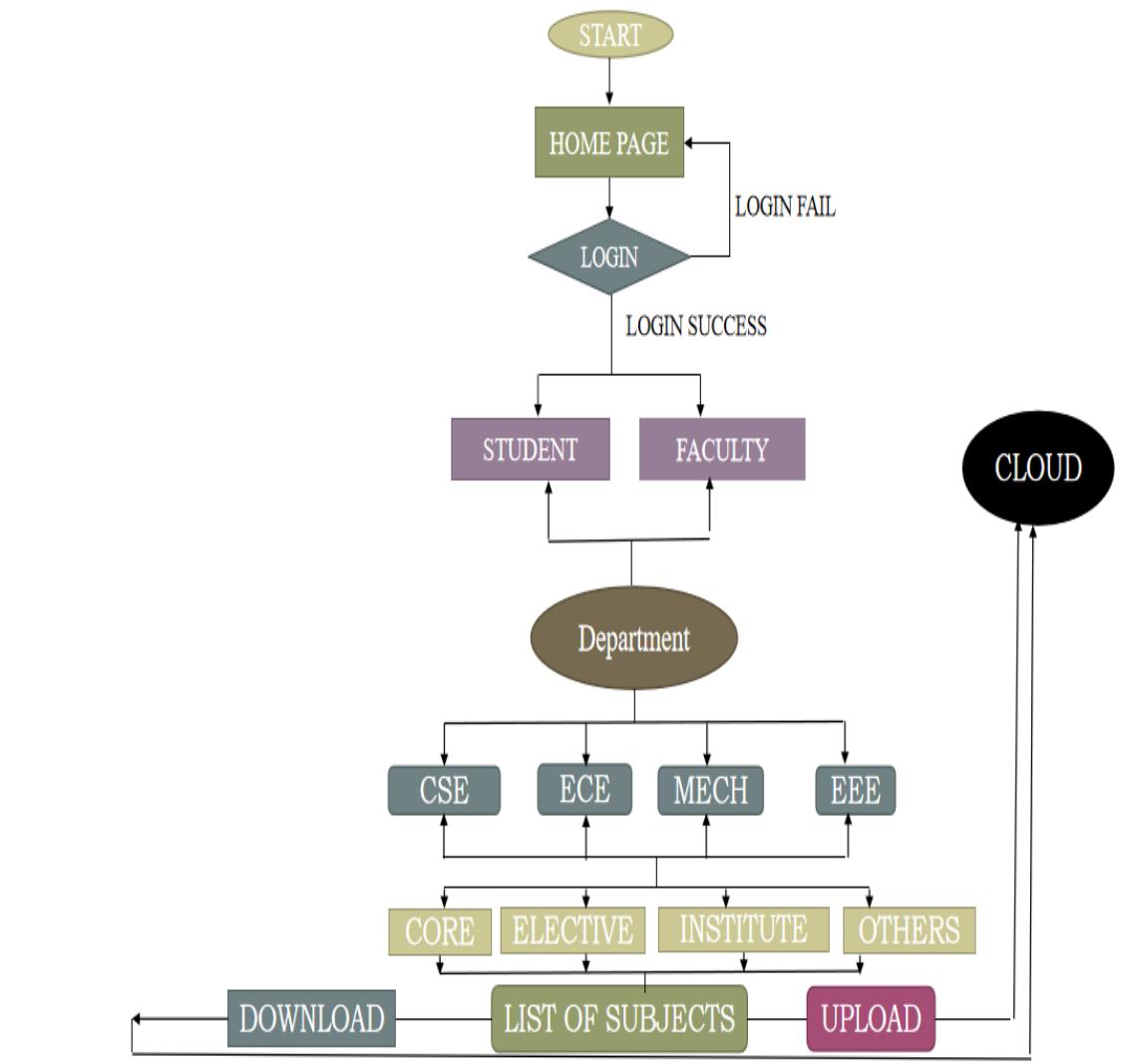


Figure 4.1: **Architecture Diagram**
10

The above architecture describes, from the home page we can switch to either student login or faculty login. if login fails it again redirected to home page once the login is successful to faculty login it will be asking to choose department, once department is selected it will be asking about category after choosing category it will show list of subjects from their faculty can upload unit pdfs, question banks, previous year question papers and others. Once the login is successful to student portal here also same up to choosing subjects, after choosing subject there we can download documents. This innovative system allows college faculty to share important data with students. It consist of a faculty login along with student login, Faculty may upload documents of subject syllabus, time table, e-notes etc. Through their provided log in. The purpose to build this system on an online server that allows faculty to upload data and students may view and download required documents through their android device. This project has a login page which allows only the registered user to login and thereby preventing unauthorized access. This system can be used to view all the syllabus, updates details. The android mobile user will be able make quick download from anywhere using internet. Over the last few years, there has been a drastic change in information technology. This includes the various ways in which files can be shared and stored.

4.2 Design Phase

4.2.1 Data Flow Diagram

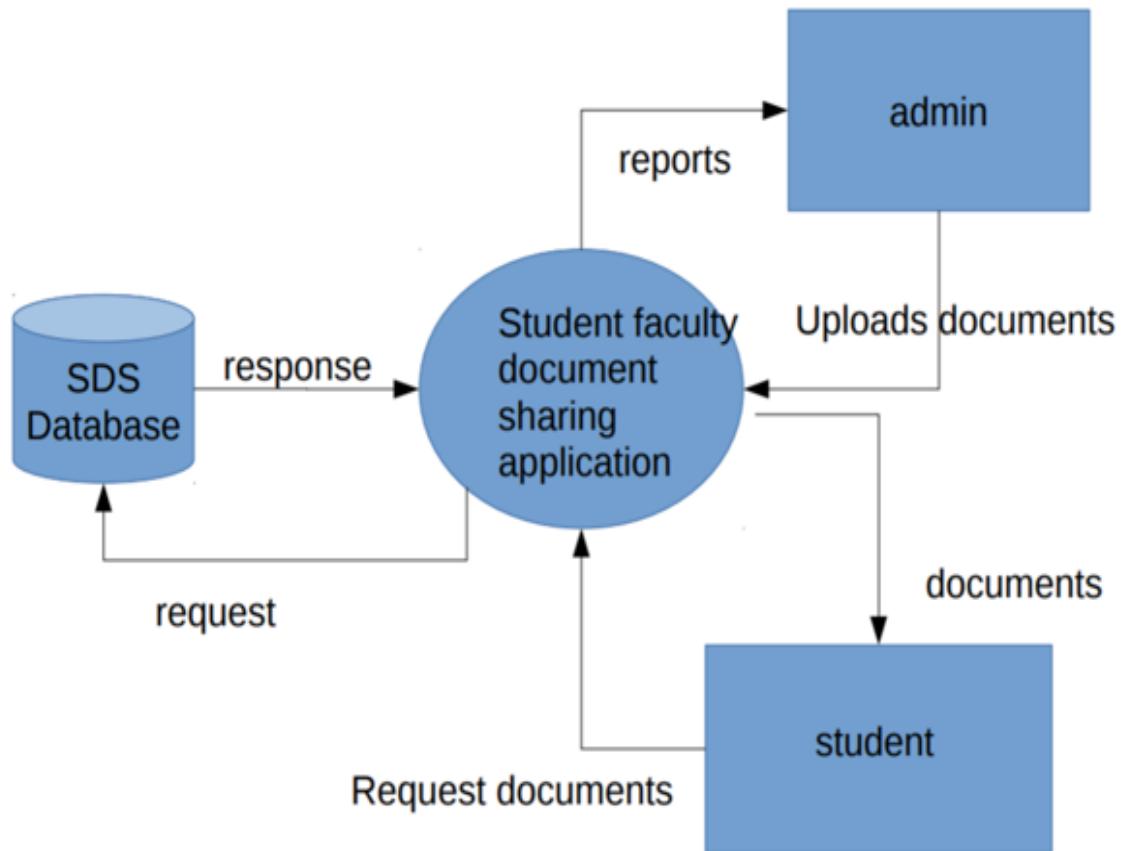


Figure 4.2: **Data Flow Diagram**

The above data flow diagram describes, Through our App faculty and student both can login. faculty uploads documents to the database and get response from our Application.students requests documents through our and get documents.

4.2.2 UML Diagram

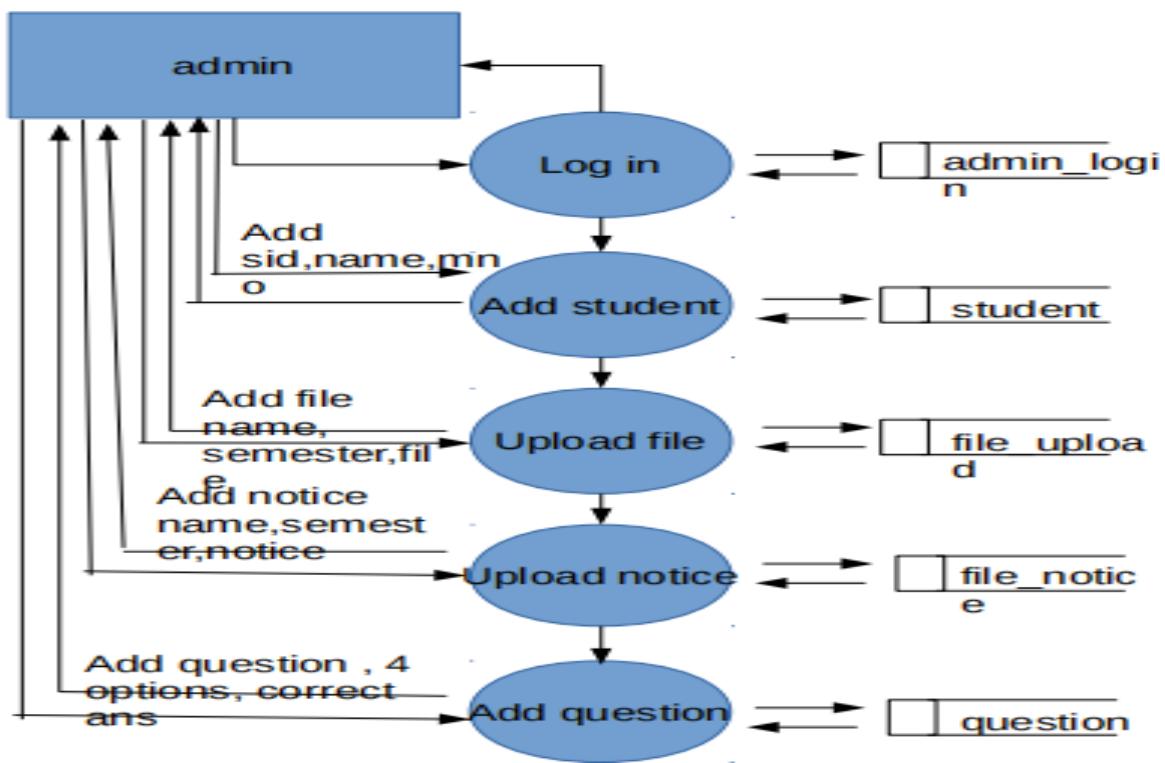


Figure 4.3: UML Diagram

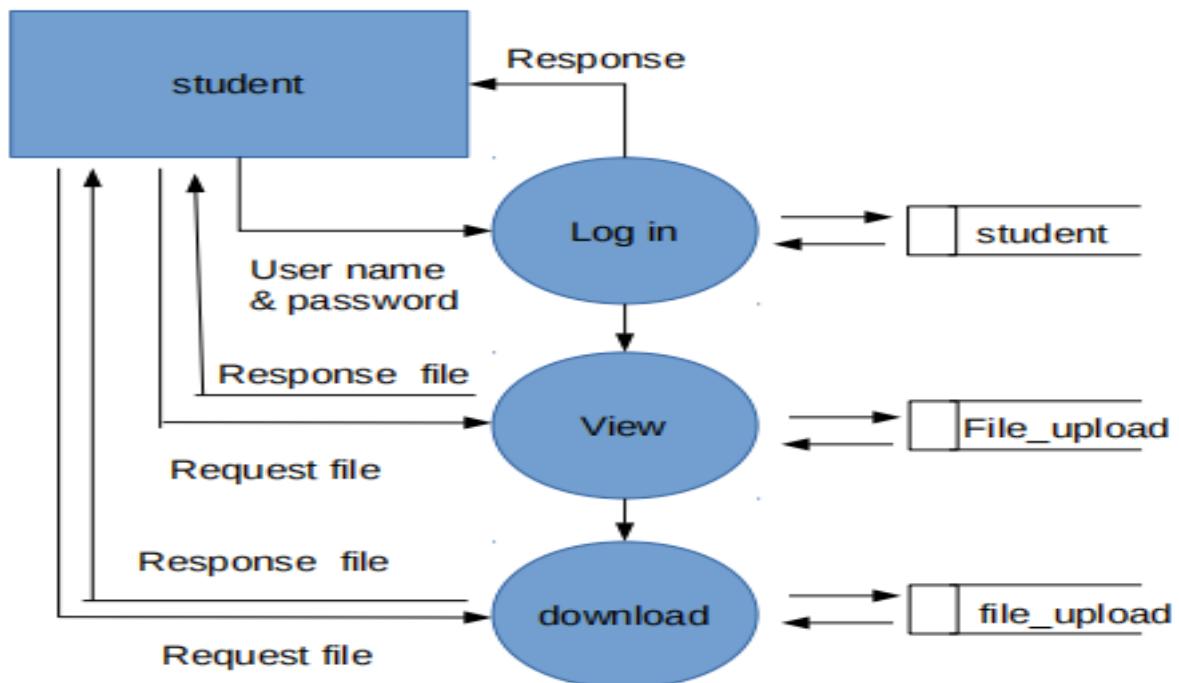


Figure 4.4: UML Diagram

The above uml diagrams represents the both faculty and student portals. The faculty can login through their details and can upload, view the documents. The students can login through their details and can download the documents.

4.2.3 Use Case Diagram

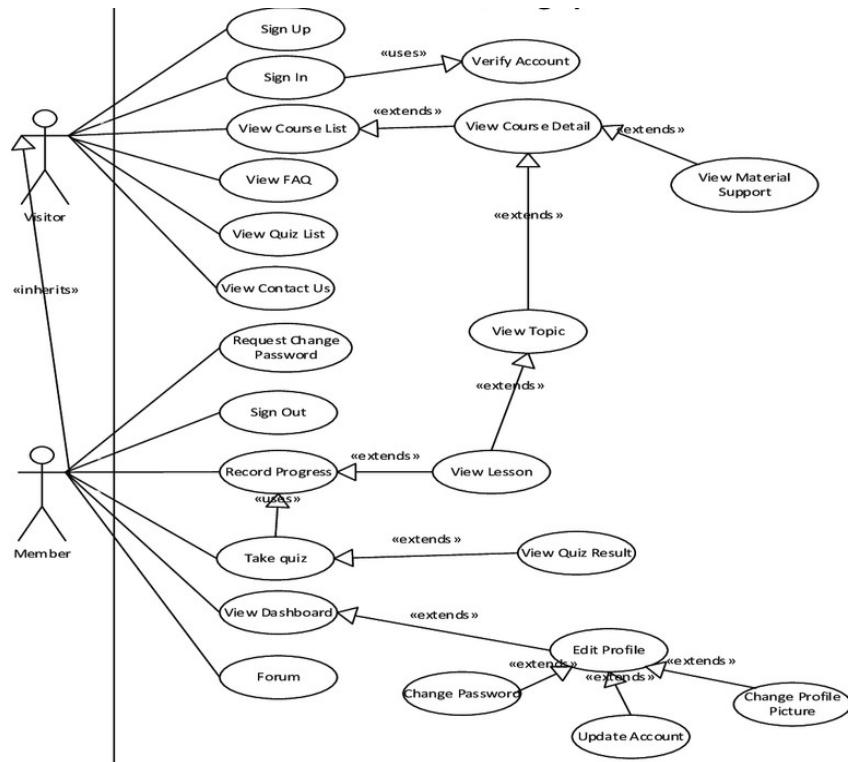


Figure 4.5: Use Case Diagram

The above use case diagram represents the flow and what can do the both student and faculty. The additional features of for faculty is they can change password and they can update their profile pic and etc. similarly student can also do the above things.

4.2.4 Class Diagram

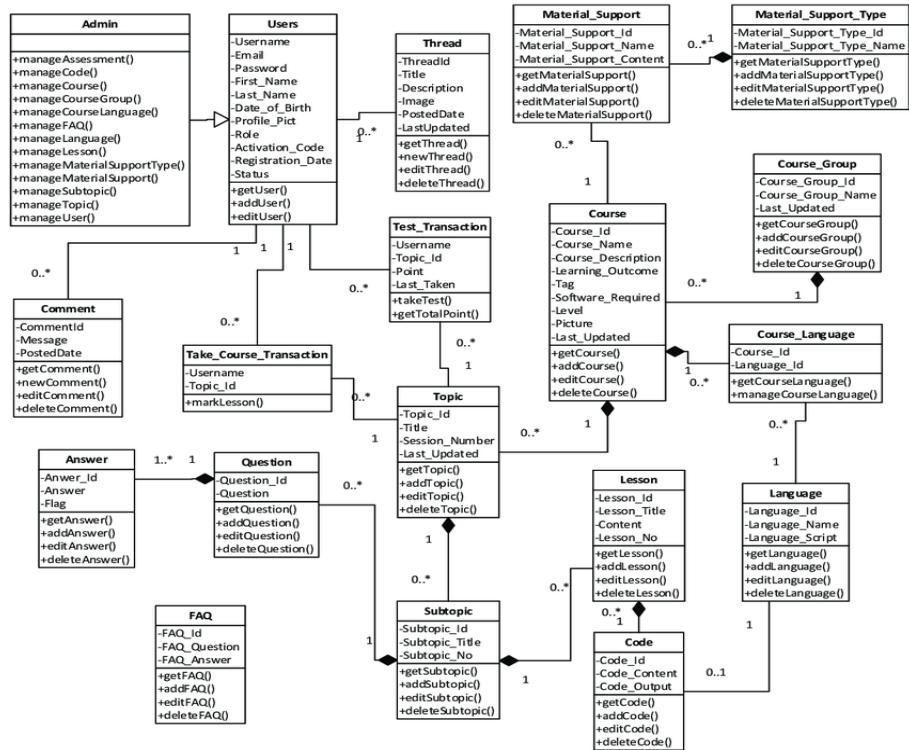


Figure 4.6: Class Diagram

The above class diagram represents the detailed explanation of project. This innovative system allows college faculty to share important data with students. It consists of a faculty login along with student login. Faculty may upload documents of subject syllabus, time table, e-notes etc. Through their provided log in. The purpose to build this system on an online server that allows faculty to upload data and students may view and download required documents through their android device. This project has a login page which allows only the registered user to login and thereby preventing unauthorized access. This system can be used to view all the syllabus, updates details. The android mobile user will be able make quick download from anywhere using internet. Over the last few years, there has been a drastic change in information technology. This includes the various ways in which files can be shared and

stored.

4.2.5 Sequence Diagram

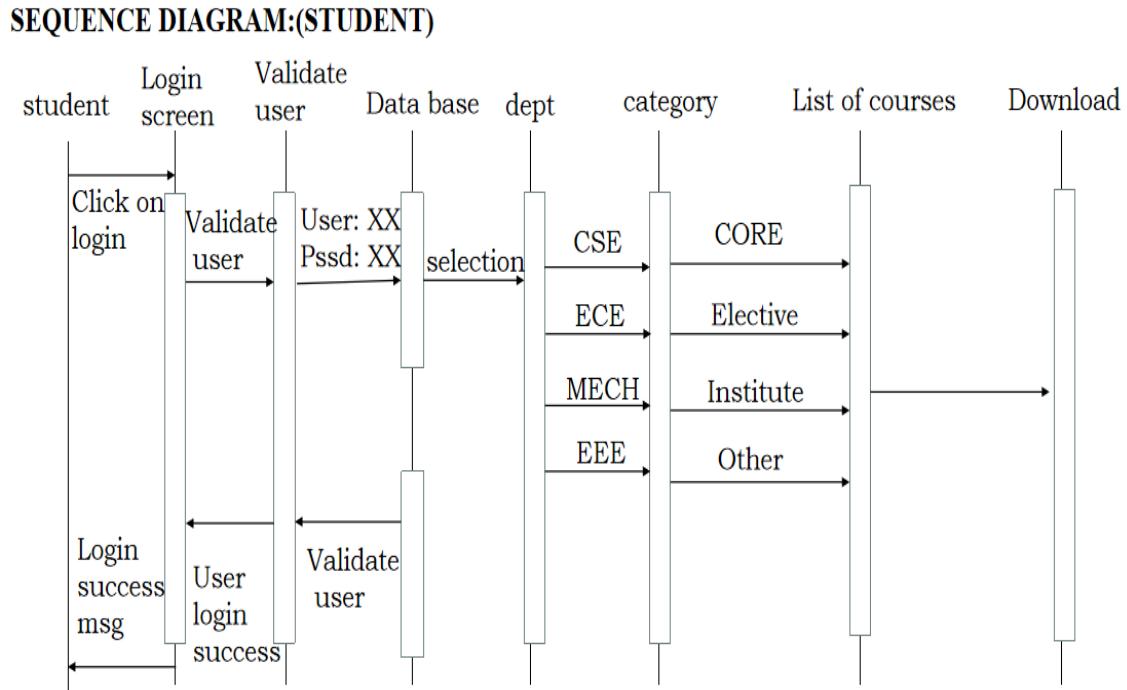


Figure 4.7: Sequence Diagram

SEQUENCE DIAGRAM:(FACULTY)

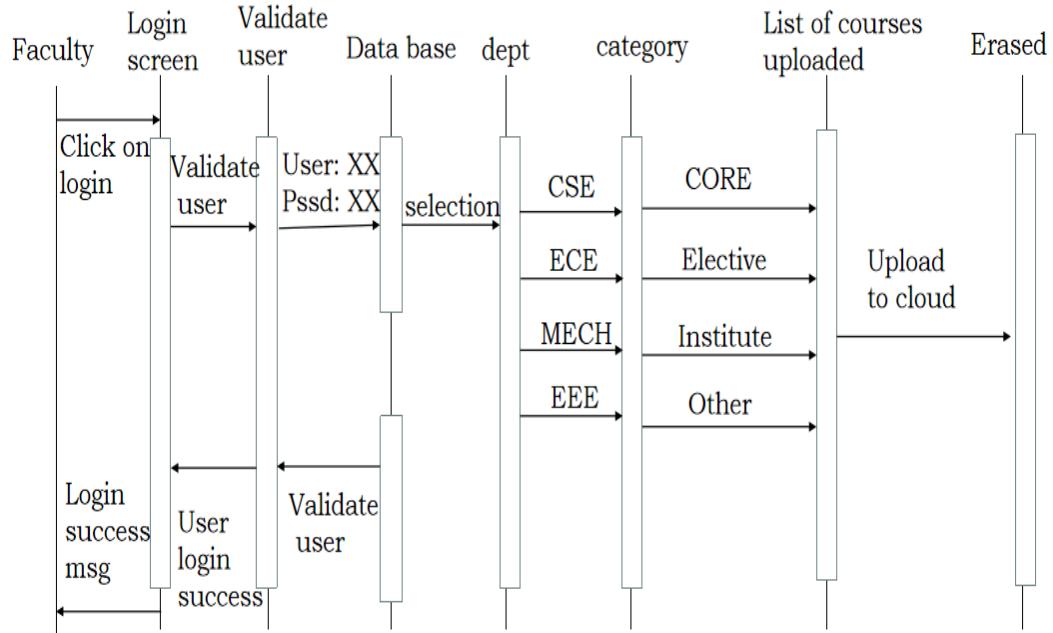


Figure 4.8: Sequence Diagram

The above sequence diagram describes about the sequence we proceed with our application. There are two sequence diagrams one is for student and another for faculty, In student sequence diagram student login with his details once login is successful it will be asking about department after it will be asking about category at end student can able to download documents. In Faculty sequence diagram it will follow same procedure but at end he can able upload documents to cloud.

4.3 Module Description

This system can be used to view all the syllabus, updates details. The android mobile user will be able make quick download from anywhere using internet. Over the last few years, there has been a drastic change in information technology. This includes the various ways in which files can be shared and stored.

1. Login_Admin

Name	Type	Description
id	Int, Auto increment	Unique no assign to each record
user_name	Varchar(15)	Store the user name of admin
user_pass	Varchar(10)	Store the password of admin

2. Student

Name	Type	Description
id	Int, Auto increment	Unique no assign to each record
sid	Varchar(50)	Use to store student id
name	Varchar(50)	Use to store name
mob_no	int(10)	Use to store mobile no
Semester	int(1)	Use to store semester
date	TIMESTAMP	Use to store current time

3. File_Upload

Name	Type	Description
id	Int, Auto increment	Unique no assign to each record
semester	int(1)	Use to store semester
name	Varchar(50)	Use to store name
type	Enum (book,assignment,extra)	Use to store type of notice
path	Varchar(200)	Use to store uploaded file
date	TIMESTAMP	Use to store current time

Figure 4.9: Database Table

Chapter 5

IMPLEMENTATION AND TESTING

5.1 Input and Output



5.1.1 Input Design



Figure 5.2: Input Image

5.1.2 Output Design

Vel Tech E-Learning

COURSE CODE 1151CS201	COURSE TITLE MOBILE APPLICATION DEVELOPMENT	L 3	T 0	P 2	C 4
--------------------------	--	--------	--------	--------	--------

Course Category: Program Core

A. Preamble:

In this modern era almost, every hand has a handheld device. Each handheld device has the computing capability to meet the half the needs of user such as banking, browsing, education and emergency etc. It is a must for a computer engineer to have some basic knowledge about the handheld devices platform and its supporting software development. This course will give adequate knowledge in developing a mobile application for different such as Android, iOS, Windows.

B. Prerequisite Courses:

Sl. No	Course Code	Course Name
1	1151CS103	Programming in Java
2	1151CS117	Java Programming
3	1151CS112	Object Oriented Software Engineering

C. Related Courses:

Sl. No	Course Code	Course Name
1	1156CS601	Minor Project
2	1156CS701	Major Project

D. Course Outcomes:

Upon the successful completion of the course, students will be able to:

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's taxonomy)												
		K1	K2	K3	K4	K5	K6	K7	K8	K9	K10	K11	K12	K13
CO1	Explain Android Architecture and various mobile platforms													K2
CO2	Develop Android application with basic building blocks													K3
CO3	Familiarize in the Graphics and Multimedia used for Android application development													K2
CO4	Test the developed app and publishing for users													K3
CO5	Explain the development of app for iOS and Windows platforms													K2

H- High; M-Medium; L-Low

- 8.Listing the sensors used in mobile phone
- 9.Creating .apk file and publishing
- 10. Creating simple application using XAMARIN

Total :75

G. Learning Resources

i. Text Books

- 1. Anubhav Pradhan, Anil V Deshpande "Composing Mobile Apps Learn/Explore/Apply using Android", Wiley Publications 1st Edition 2014.
- 2. Xamarin Studio for Android Programming: A C# Cookbook by Mathieu Nayrolles

ii. Reference Books

- 1. David Mark, Jack Nutting, Jeff LaMarche and Frederic Olsson, "Beginning iOS 6 Development: Exploring the iOS SDK", Apress, 2013.
- 2. Charlie Collins, Michael Galpin and Matthias Kappeler, "Android in Practice".

Figure 5.3: Output Image

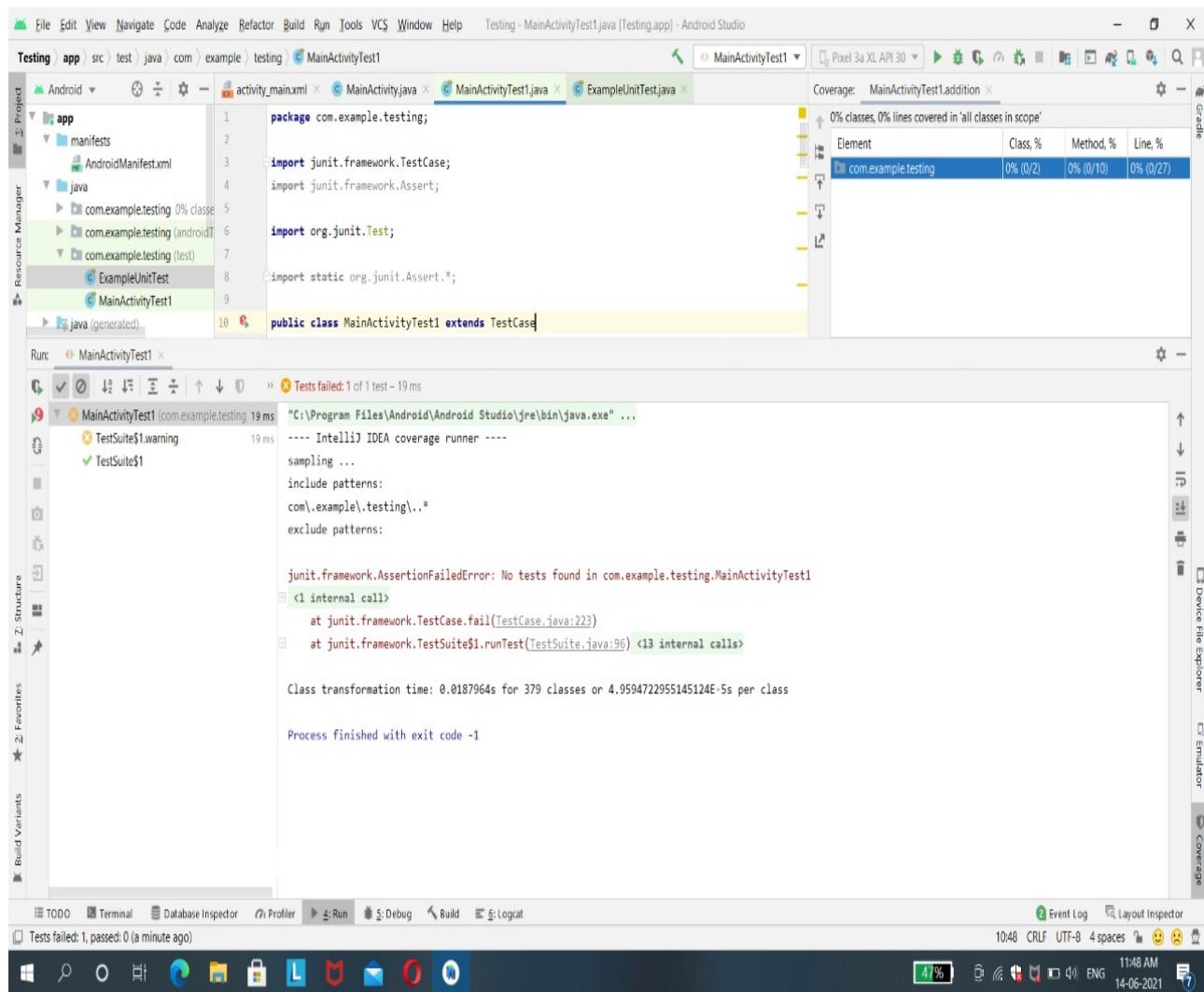
5.2 Testing

5.3 Types of Testing

5.3.1 Unit testing

Unit testing is usually conducted as part of a combined code and unit test phase of the software life cycle, although it is not uncommon for coding and unit testing to be conducted as two distinct phases.

Test result



The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The project tree shows the app module with its manifest and Java files. The `MainActivityTest1.java` file is selected.
- Coverage:** A coverage report indicates 0% coverage across all classes.
- Run Tab:** The run configuration is set to `MainActivityTest1`. The output window shows the test results:
 - Tests failed:** 1 of 1 test - 19 ms
 - Test Suite:** `MainActivityTest1 (com.example.testing)` took 19 ms.
 - Logs:** The log output shows the failure of the `MainActivityTest1` suite due to no tests found, with stack traces for the `TestCase.fail` and `TestSuite$1.runTest` methods.
 - Summary:** Class transformation time was 0.0187964s, and the process finished with exit code -1.
- Bottom Bar:** Shows various developer tools like TODO, Terminal, Database Inspector, Profiler, Run, Debug, Build, Logcat, Event Log, Layout Inspector, and system status like battery level (47%), signal strength, and date/time (14-06-2021).

Figure 5.4: Output Image

5.3.2 White Box Testing

White Box Testing is a testing in which the software tester has knowledge of the inner workings, structure and language of the software, or at least its purpose. It is used to test areas that cannot be reached from a black box level.

5.3.3 Black Box Testing

Black Box Testing is testing the software without any knowledge of the inner workings, structure or language of the module being tested. Black box tests, as most other kinds of tests, must be written from a definitive source document, such as specification or requirements document, such as specification or requirements document. It is a testing in which the software under test is treated, as a black box .you cannot “see” into it. The test provides inputs and responds to outputs without considering how the software works.

5.3.4 Test Result

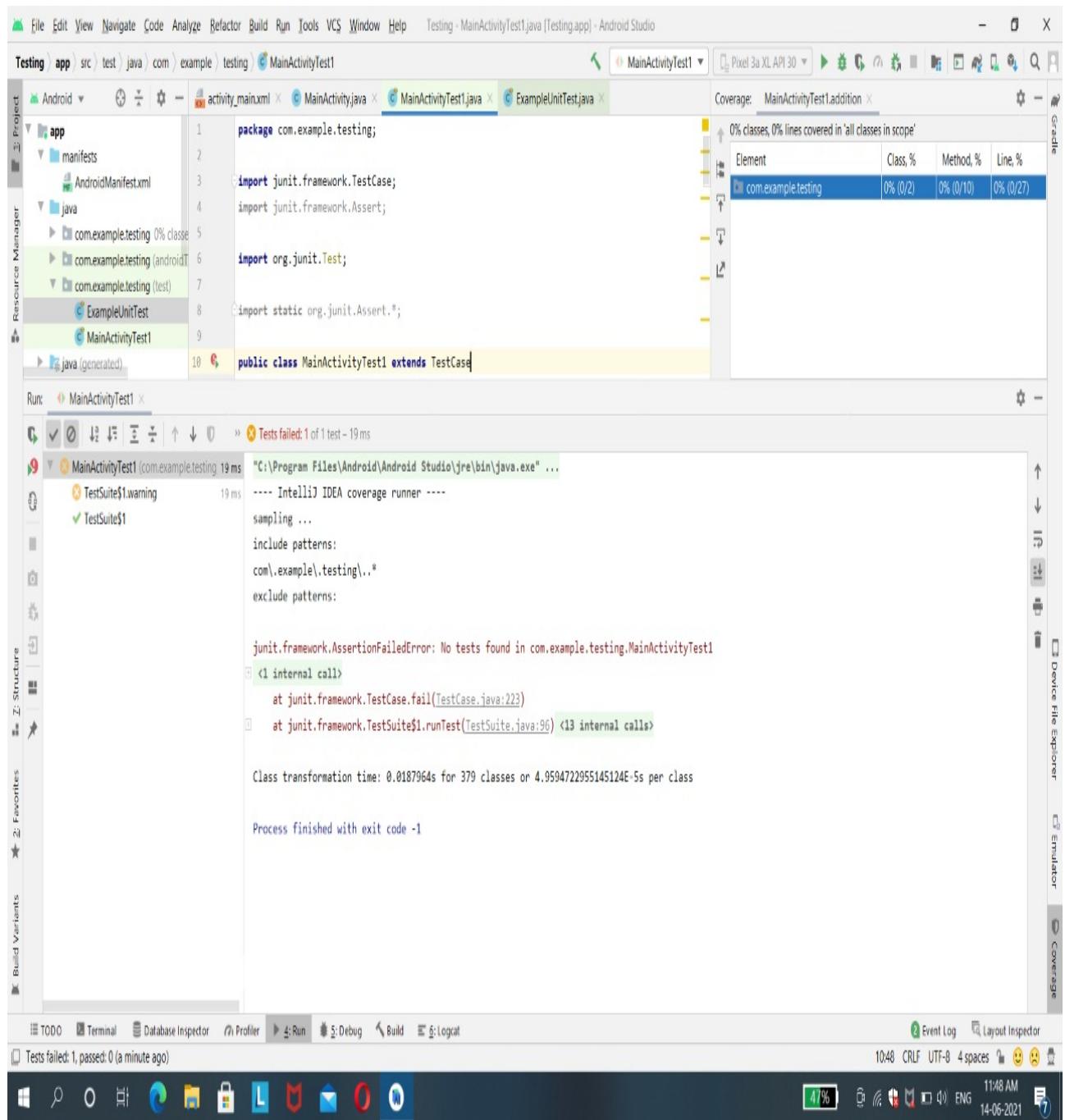


Figure 5.5: Test Image

Chapter 6

RESULTS AND DISCUSSIONS

6.1 Efficiency of the Proposed System

Compare to the earlier system the proposed system is 80 percent more cost efficient and time efficient.

6.2 Comparison of Existing and Proposed System

Existing System

Only registered users can access the system. The user cannot view or download any information in the system when the server is down. The students can view only the data related to the particular semester. The remaining data is hidden to them. Also, at some organization even the above mentioned existing system is not even exist and faculty and students share the information or documents via papers and files only, which may sometimes lead to loss of any documents or important information too.

Proposed System

The server allows the faculty to upload the data and the students can see and download the required documents through the android device.

the faculty can upload or modify the documents to any semester as desired. The proposed system is worked on the server and all the files and documents are uploaded in the server. The students just need sign in through mobile application to view and download document . Proposed system saves lots of time of both faculties and students.

6.3 Advantages of the Proposed System

saves time and money.

With online learning, your learners can access content anywhere and anytime. They don't need to take time out from their jobs to attend classes. E-learning is also cost-effective; companies save a substantial amount on the travel and accommodation costs of both learners and instructors, as well as the venue and materials. No printing helps reduce your carbon footprint, too.

leads to better retention.

Modern learners prefer bite-sized, interactive content. They would rather watch a video or listen to a podcast than read through pages of a manual. E-learning tools enable learning designers to make content interactive. The more engaging the content is, the better the learners remember information. If they enjoy learning, they can able to recall and apply the concepts at work.

scalable.

Online learning is scalable. You can roll it out to as many employees you need and is a one-time investment. The more learners take the course, the faster you can write off the expense.

6.4 Sample Code

```
1 JAVA Code For Login Page :  
2  
3 package com.example.veltechebook;  
4 import androidx.appcompat.app.AppCompatActivity;  
5 import android.content.Intent;  
6 import android.os.Bundle;  
7 import android.view.Gravity;  
8 import android.view.View;  
9 import android.widget.Button;  
10 import android.widget.EditText;  
11 import android.widget.Toast;  
12 public class MainActivity extends AppCompatActivity {  
13     EditText User_name;  
14     EditText Password;  
15     Button Login;  
16     @Override  
17     protected void onCreate(Bundle savedInstanceState) {  
18         super.onCreate(savedInstanceState);  
19         setContentView(R.layout.activity_main);  
20         User_name=(EditText)findViewById(R.id.editTextTextPersonName);  
21         Password=(EditText)findViewById(R.id.editTextTextPersonName2);  
22         Login=(Button)findViewById(R.id.button);  
23  
24         Login.setOnClickListener(new View.OnClickListener() {  
25             @Override  
26             public void onClick(View v) {  
27                 String a = User_name.getText().toString();  
28                 String b = Password.getText().toString();  
29                 if(a.startsWith("vtu") && b.equals(a)){  
30                     m1();  
31                 }  
32                 else if(a.startsWith("TTS") && b.equals(a)){  
33                     m2();  
34                 }  
35             }  
36         });  
37     };
```

```

38 }
39 public void m1(){
40     Intent intent=new Intent(this ,Student_Portal.class);
41     startActivity(intent);
42 }
43 public void m2(){
44     Intent intent1=new Intent(this ,Faculty_portal.class);
45     startActivity(intent1);
46 }
47 }
48

```

49 XML Code For Login Page :

```

50
51 <?xml version="1.0" encoding="utf-8"?>
52 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas
53   . android . com / apk / res / android "
54   xmlns : app = " http : // schemas . android . com / apk / res - auto "
55   xmlns : tools = " http : // schemas . android . com / tools "
56   android : layout_width = " match_parent "
57   android : layout_height = " match_parent "
58   tools : context = ". MainActivity " >
59
60 <EditText
61     android : id = "@+id / editTextTextPersonName "
62     android : layout_width = " wrap_content "
63     android : layout_height = " wrap_content "
64     android : layout_marginStart = " 100dp "
65     android : layout_marginTop = " 42dp "
66     android : layout_marginEnd = " 100dp "
67     android : ems = " 10 "
68     android : hint = " UserName "
69     android : inputType = " textPersonName "
70     app : layout_constraintEnd_toEndOf = " parent "
71     app : layout_constraintHorizontal_bias = " 0.0 "
72     app : layout_constraintStart_toStartOf = " parent "
73     app : layout_constraintTop_toBottomOf = "@+id / imageView " />
74
75 <EditText
76     android : id = "@+id / editTextTextPersonName2 "

```

```
76    android:layout_width="wrap_content"
77    android:layout_height="wrap_content"
78    android:layout_marginStart="100dp"
79    android:layout_marginTop="47dp"
80    android:layout_marginEnd="100dp"
81    android:ems="10"
82    android:hint="Password"
83    android:inputType="textPersonName"
84    app:layout_constraintEnd_toEndOf="parent"
85    app:layout_constraintHorizontal_bias="0.0"
86    app:layout_constraintStart_toStartOf="parent"
87    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName" />
88
89 <Button
90     android:id="@+id/button"
91     android:layout_width="wrap_content"
92     android:layout_height="wrap_content"
93     android:layout_marginStart="161dp"
94     android:layout_marginTop="60dp"
95     android:layout_marginEnd="162dp"
96     android:text="Login"
97     app:layout_constraintEnd_toEndOf="parent"
98     app:layout_constraintHorizontal_bias="0.0"
99     app:layout_constraintStart_toStartOf="parent"
100    app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName2" />
101
102 <TextView
103     android:id="@+id/textView19"
104     android:layout_width="325dp"
105     android:layout_height="54dp"
106     android:layout_marginStart="28dp"
107     android:layout_marginTop="53dp"
108     android:layout_marginEnd="28dp"
109     android:text="Welcome To Vel Tech E-Book"
110     android:textAlignment="center"
111     android:textStyle="bold"
112     android:textColor="@color/purple_200"
113     android:textAppearance="@style/TextAppearance.AppCompat.Large"
114     app:layout_constraintEnd_toEndOf="parent"
```

```

115     app:layout_constraintStart_toStartOf="parent"
116     app:layout_constraintTop_toTopOf="parent" />
117
118 <ImageView
119     android:id="@+id/imageView"
120     android:layout_width="267dp"
121     android:layout_height="202dp"
122     android:layout_marginStart="72dp"
123     android:layout_marginTop="53dp"
124     android:layout_marginEnd="72dp"
125     app:layout_constraintEnd_toEndOf="parent"
126     app:layout_constraintStart_toStartOf="parent"
127     app:layout_constraintTop_toBottomOf="@+id/textView19"
128     app:srcCompat="@drawable/vellogo" />
129
130 </androidx.constraintlayout.widget.ConstraintLayout>
131
132 Faculty Portal Java Code :
133
134 package com.example.veltechebook;
135 import androidx.appcompat.app.AppCompatActivity;
136 import android.content.Intent;
137 import android.os.Bundle;
138 import android.view.View;
139 import android.widget.Button;
140 public class Faculty_portal extends AppCompatActivity {
141
142     Button cse;
143     Button ece;
144     Button eee;
145     Button mech;
146     Button aero;
147     Button civil;
148     Button it;
149     Button chemi;
150
151     @Override
152     protected void onCreate(Bundle savedInstanceState) {
153         super.onCreate(savedInstanceState);

```

```

154     setContentView(R.layout.activity_faculty_portal);
155     cse=(Button)findViewById(R.id.button3);
156     ece=(Button)findViewById(R.id.button2);
157     eee=(Button)findViewById(R.id.button4);
158     mech=(Button)findViewById(R.id.button5);
159     aero=(Button)findViewById(R.id.button6);
160     it=(Button)findViewById(R.id.button7);
161     civil=(Button)findViewById(R.id.button8);
162     chemi=(Button)findViewById(R.id.button9);

163
164     cse.setOnClickListener(new View.OnClickListener() {
165         @Override
166         public void onClick(View v) {
167             cse_category();
168         }
169     });
170     ece.setOnClickListener(new View.OnClickListener() {
171         @Override
172         public void onClick(View v) {
173             ece_category();
174         }
175     });
176     eee.setOnClickListener(new View.OnClickListener() {
177         @Override
178         public void onClick(View v) {
179             eee_category();
180         }
181     });
182     mech.setOnClickListener(new View.OnClickListener() {
183         @Override
184         public void onClick(View v) {
185             mech_category();
186         }
187     });
188     aero.setOnClickListener(new View.OnClickListener() {
189         @Override
190         public void onClick(View v) {
191             aero_category();
192         }

```

```

193    });
194    it .setOnClickListener(new View.OnClickListener() {
195        @Override
196        public void onClick(View v) {
197            it_category();
198        }
199    });
200    civil.setOnClickListener(new View.OnClickListener() {
201        @Override
202        public void onClick(View v) {
203            civil_category();
204        }
205    });
206    chemi.setOnClickListener(new View.OnClickListener() {
207        @Override
208        public void onClick(View v) {
209            chemi_category();
210        }
211    });
212
213 }
214 public void cse_category(){
215     Intent intent=new Intent(this,cse_course_category.class);
216     startActivity(intent);
217 }
218 public void eee_category(){
219     Intent intent=new Intent(this,eee_course_category.class);
220     startActivity(intent);
221 }
222 public void ece_category(){
223     Intent intent=new Intent(this,ece_course_category.class);
224     startActivity(intent);
225 }
226 public void mech_category(){
227     Intent intent=new Intent(this,mech_course_category.class);
228     startActivity(intent);
229 }
230 public void aero_category(){
231     Intent intent=new Intent(this,aero_course_category.class);

```

```
232     startActivity(intent);
233 }
234 public void it_category(){
235     Intent intent=new Intent(this,it_course_category.class);
236     startActivity(intent);
237 }
238 public void civil_category(){
239     Intent intent=new Intent(this,civil_course_category.class);
240     startActivity(intent);
241 }
242 public void chemi_category(){
243     Intent intent=new Intent(this,chemi_course_category.class);
244     startActivity(intent);
245 }
246 }
247 }

248 Faculty Portal XML code :

249 <?xml version="1.0" encoding="utf-8"?>
250 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://
251 . android.com/apk/res/android"
252     xmlns:app="http://schemas.android.com/apk/res-auto"
253     xmlns:tools="http://schemas.android.com/tools"
254     android:layout_width="match_parent"
255     android:layout_height="match_parent"
256     tools:context=".Faculty_portal">

257 <TextView
258     android:id="@+id/textView"
259     android:layout_width="299dp"
260     android:layout_height="39dp"
261     android:layout_marginStart="100dp"
262     android:layout_marginTop="24dp"
263     android:layout_marginEnd="100dp"
264     android:text="Welcome To Faculty Portal"
265     android:textAlignment="center"
266     android:textAppearance="@style/TextAppearance.AppCompat.Large"
267     android:textColor="@color/purple_500"
```

```

270     android:textStyle="bold"
271     app:layout_constraintEnd_toEndOf="parent"
272     app:layout_constraintStart_toStartOf="parent"
273     app:layout_constraintTop_toTopOf="parent" />
274
275 <TextView
276     android:id="@+id/textView2"
277     android:layout_width="wrap_content"
278     android:layout_height="wrap_content"
279     android:layout_marginStart="74dp"
280     android:layout_marginTop="10dp"
281     android:layout_marginEnd="74dp"
282     android:text="Select Department : "
283     android:textAlignment="center"
284     android:textAppearance="@style/TextAppearance.AppCompat.Large"
285     android:textColor="@color/purple_500"
286     android:textStyle="bold"
287     app:layout_constraintEnd_toEndOf="parent"
288     app:layout_constraintHorizontal_bias="0.491"
289     app:layout_constraintStart_toStartOf="parent"
290     app:layout_constraintTop_toBottomOf="@+id/imageView2" />
291
292 <Button
293     android:id="@+id/button2"
294     android:layout_width="wrap_content"
295     android:layout_height="wrap_content"
296     android:layout_marginStart="100dp"
297     android:layout_marginTop="48dp"
298     android:layout_marginEnd="50dp"
299     android:text="ECE"
300     app:layout_constraintEnd_toStartOf="@+id/button5"
301     app:layout_constraintStart_toStartOf="parent"
302     app:layout_constraintTop_toBottomOf="@+id/button3" />
303
304 <Button
305     android:id="@+id/button3"
306     android:layout_width="wrap_content"
307     android:layout_height="wrap_content"
308     android:layout_marginStart="100dp"

```

```
309     android:layout_marginTop="31dp"
310     android:layout_marginEnd="50dp"
311     android:text="CSE"
312     app:layout_constraintEnd_toStartOf="@+id/button4"
313     app:layout_constraintStart_toStartOf="parent"
314     app:layout_constraintTop_toBottomOf="@+id/textView2" />
315
316 <Button
317     android:id="@+id/button4"
318     android:layout_width="95dp"
319     android:layout_height="47dp"
320     android:layout_marginStart="50dp"
321     android:layout_marginTop="31dp"
322     android:layout_marginEnd="100dp"
323     android:text="EEE"
324     app:layout_constraintEnd_toEndOf="parent"
325     app:layout_constraintStart_toEndOf="@+id/button3"
326     app:layout_constraintTop_toBottomOf="@+id/textView2" />
327
328 <Button
329     android:id="@+id/button5"
330     android:layout_width="101dp"
331     android:layout_height="44dp"
332     android:layout_marginStart="50dp"
333     android:layout_marginTop="50dp"
334     android:layout_marginEnd="100dp"
335     android:text="MECH"
336     app:layout_constraintEnd_toEndOf="parent"
337     app:layout_constraintStart_toEndOf="@+id/button2"
338     app:layout_constraintTop_toBottomOf="@+id/button4" />
339
340 <Button
341     android:id="@+id/button6"
342     android:layout_width="wrap_content"
343     android:layout_height="wrap_content"
344     android:layout_marginStart="100dp"
345     android:layout_marginTop="50dp"
346     android:layout_marginEnd="50dp"
347     android:text="AERO"
```

```
348     app:layout_constraintEnd_toStartOf="@+id/button7"
349     app:layout_constraintStart_toStartOf="parent"
350     app:layout_constraintTop_toBottomOf="@+id/button2" />
351
352 <Button
353     android:id="@+id/button7"
354     android:layout_width="wrap_content"
355     android:layout_height="wrap_content"
356     android:layout_marginStart="50dp"
357     android:layout_marginTop="50dp"
358     android:layout_marginEnd="100dp"
359     android:text="IT"
360     app:layout_constraintEnd_toEndOf="parent"
361     app:layout_constraintStart_toEndOf="@+id/button6"
362     app:layout_constraintTop_toBottomOf="@+id/button5" />
363
364 <Button
365     android:id="@+id/button8"
366     android:layout_width="wrap_content"
367     android:layout_height="wrap_content"
368     android:layout_marginStart="100dp"
369     android:layout_marginTop="50dp"
370     android:layout_marginEnd="50dp"
371     android:text="CIVIL"
372     app:layout_constraintEnd_toStartOf="@+id/button9"
373     app:layout_constraintStart_toStartOf="parent"
374     app:layout_constraintTop_toBottomOf="@+id/button6" />
375
376 <Button
377     android:id="@+id/button9"
378     android:layout_width="wrap_content"
379     android:layout_height="wrap_content"
380     android:layout_marginStart="50dp"
381     android:layout_marginTop="50dp"
382     android:layout_marginEnd="100dp"
383     android:text="CHEMI"
384     app:layout_constraintEnd_toEndOf="parent"
385     app:layout_constraintStart_toEndOf="@+id/button8"
386     app:layout_constraintTop_toBottomOf="@+id/button7" />
```

```

387
388 <ImageView
389     android:id="@+id/imageView2"
390     android:layout_width="346dp"
391     android:layout_height="194dp"
392     android:layout_marginStart="38dp"
393     android:layout_marginTop="14dp"
394     android:layout_marginEnd="27dp"
395     app:layout_constraintEnd_toEndOf="parent"
396     app:layout_constraintStart_toStartOf="parent"
397     app:layout_constraintTop_toBottomOf="@+id/textView"
398     app:srcCompat="@drawable/faculty_logo" />
399
400 </androidx.constraintlayout.widget.ConstraintLayout>
401
402 Student Portal Java Code :
403
404 package com.example.veltechebook;
405 import androidx.appcompat.app.AppCompatActivity;
406 import android.content.Intent;
407 import android.os.Bundle;
408 import android.view.View;
409 import android.widget.Button;
410 public class Student_Portal extends AppCompatActivity {
411     Button cse;
412     Button ece;
413     Button eee;
414     Button mech;
415     Button aero;
416     Button civil;
417     Button it;
418     Button chemi;
419
420     @Override
421     protected void onCreate(Bundle savedInstanceState) {
422         super.onCreate(savedInstanceState);
423         setContentView(R.layout.activity_student_portal);
424         cse=(Button)findViewById(R.id.button3);
425         ece=(Button)findViewById(R.id.button2);

```

```

426     eee=(Button) findViewById(R.id.button4);
427     mech=(Button) findViewById(R.id.button5);
428     aero=(Button) findViewById(R.id.button6);
429     it=(Button) findViewById(R.id.button7);
430     civil=(Button) findViewById(R.id.button8);
431     chemi=(Button) findViewById(R.id.button9);

432
433     cse.setOnClickListener(new View.OnClickListener() {
434         @Override
435         public void onClick(View v) {
436             cse_category();
437         }
438     );
439     ece.setOnClickListener(new View.OnClickListener() {
440         @Override
441         public void onClick(View v) {
442             ece_category();
443         }
444     );
445     eee.setOnClickListener(new View.OnClickListener() {
446         @Override
447         public void onClick(View v) {
448             eee_category();
449         }
450     );
451     mech.setOnClickListener(new View.OnClickListener() {
452         @Override
453         public void onClick(View v) {
454             mech_category();
455         }
456     );
457     aero.setOnClickListener(new View.OnClickListener() {
458         @Override
459         public void onClick(View v) {
460             aero_category();
461         }
462     );
463     it.setOnClickListener(new View.OnClickListener() {
464         @Override

```

```

465     public void onClick(View v) {
466         it_category();
467     }
468 });
469 civil.setOnClickListener(new View.OnClickListener() {
470     @Override
471     public void onClick(View v) {
472         civil_category();
473     }
474 });
475 chemi.setOnClickListener(new View.OnClickListener() {
476     @Override
477     public void onClick(View v) {
478         chemi_category();
479     }
480 });
481
482 }
483 public void cse_category(){
484     Intent intent=new Intent(this,cse_course_category.class);
485     startActivity(intent);
486 }
487 public void eee_category(){
488     Intent intent=new Intent(this,eee_course_category.class);
489     startActivity(intent);
490 }
491 public void ece_category(){
492     Intent intent=new Intent(this,ece_course_category.class);
493     startActivity(intent);
494 }
495 public void mech_category(){
496     Intent intent=new Intent(this,mech_course_category.class);
497     startActivity(intent);
498 }
499 public void aero_category(){
500     Intent intent=new Intent(this,aero_course_category.class);
501     startActivity(intent);
502 }
503 public void it_category(){

```

```

504     Intent intent=new Intent(this,it_course_category.class);
505     startActivity(intent);
506 }
507 public void civil_category(){
508     Intent intent=new Intent(this,civil_course_category.class);
509     startActivity(intent);
510 }
511 public void chemi_category(){
512     Intent intent=new Intent(this, Faculty_portal.class);
513     startActivity(intent);
514 }
515
516 }
517
518 XML Code For Student Portal :
519
520 <?xml version="1.0" encoding="utf-8"?>
521 <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas
      .android.com/apk/res/android"
522     xmlns:app="http://schemas.android.com/apk/res-auto"
523     xmlns:tools="http://schemas.android.com/tools"
524     android:layout_width="match_parent"
525     android:layout_height="match_parent"
526     tools:context=".Student_Portal">
527
528 <TextView
529     android:id="@+id/textView"
530     android:layout_width="299dp"
531     android:layout_height="39dp"
532     android:layout_marginStart="100dp"
533     android:layout_marginTop="24dp"
534     android:layout_marginEnd="100dp"
535     android:text="Welcome To Student Portal"
536     android:textAlignment="center"
537     android:textAppearance="@style/TextAppearance.AppCompat.Large"
538     android:textColor="@color/purple_500"
539     android:textStyle="bold"
540     app:layout_constraintEnd_toEndOf="parent"
541     app:layout_constraintStart_toStartOf="parent"

```

```
542     app:layout_constraintTop_toTopOf="parent" />
543
544 <TextView
545     android:id="@+id/textView2"
546     android:layout_width="wrap_content"
547     android:layout_height="wrap_content"
548     android:layout_marginStart="74dp"
549     android:layout_marginTop="10dp"
550     android:layout_marginEnd="74dp"
551     android:text="Select Department : "
552     android:textAlignment="center"
553     android:textAppearance="@style/TextAppearance.AppCompat.Large"
554     android:textColor="@color/purple_500"
555     android:textStyle="bold"
556     app:layout_constraintEnd_toEndOf="parent"
557     app:layout_constraintHorizontal_bias="0.491"
558     app:layout_constraintStart_toStartOf="parent"
559     app:layout_constraintTop_toBottomOf="@+id/imageView2" />
560
561 <Button
562     android:id="@+id/button2"
563     android:layout_width="wrap_content"
564     android:layout_height="wrap_content"
565     android:layout_marginStart="100dp"
566     android:layout_marginTop="48dp"
567     android:layout_marginEnd="50dp"
568     android:text="ECE"
569     app:layout_constraintEnd_toStartOf="@+id/button5"
570     app:layout_constraintStart_toStartOf="parent"
571     app:layout_constraintTop_toBottomOf="@+id/button3" />
572
573 <Button
574     android:id="@+id/button3"
575     android:layout_width="wrap_content"
576     android:layout_height="wrap_content"
577     android:layout_marginStart="100dp"
578     android:layout_marginTop="31dp"
579     android:layout_marginEnd="50dp"
580     android:text="CSE"
```

```
581     app:layout_constraintEnd_toStartOf="@+id/button4"
582     app:layout_constraintStart_toStartOf="parent"
583     app:layout_constraintTop_toBottomOf="@+id/textView2" />
584
585 <Button
586     android:id="@+id/button4"
587     android:layout_width="95dp"
588     android:layout_height="47dp"
589     android:layout_marginStart="50dp"
590     android:layout_marginTop="31dp"
591     android:layout_marginEnd="100dp"
592     android:text="EEE"
593     app:layout_constraintEnd_toEndOf="parent"
594     app:layout_constraintStart_toEndOf="@+id/button3"
595     app:layout_constraintTop_toBottomOf="@+id/textView2" />
596
597 <Button
598     android:id="@+id/button5"
599     android:layout_width="101dp"
600     android:layout_height="44dp"
601     android:layout_marginStart="50dp"
602     android:layout_marginTop="50dp"
603     android:layout_marginEnd="100dp"
604     android:text="MECH"
605     app:layout_constraintEnd_toEndOf="parent"
606     app:layout_constraintStart_toEndOf="@+id/button2"
607     app:layout_constraintTop_toBottomOf="@+id/button4" />
608
609 <Button
610     android:id="@+id/button6"
611     android:layout_width="wrap_content"
612     android:layout_height="wrap_content"
613     android:layout_marginStart="100dp"
614     android:layout_marginTop="50dp"
615     android:layout_marginEnd="50dp"
616     android:text="AERO"
617     app:layout_constraintEnd_toStartOf="@+id/button7"
618     app:layout_constraintStart_toStartOf="parent"
619     app:layout_constraintTop_toBottomOf="@+id/button2" />
```

```
620
621 <Button
622     android:id="@+id/button7"
623     android:layout_width="wrap_content"
624     android:layout_height="wrap_content"
625     android:layout_marginStart="50dp"
626     android:layout_marginTop="50dp"
627     android:layout_marginEnd="100dp"
628     android:text="IT"
629     app:layout_constraintEnd_toEndOf="parent"
630     app:layout_constraintStart_toEndOf="@+id/button6"
631     app:layout_constraintTop_toBottomOf="@+id/button5" />
632
633 <Button
634     android:id="@+id/button8"
635     android:layout_width="wrap_content"
636     android:layout_height="wrap_content"
637     android:layout_marginStart="100dp"
638     android:layout_marginTop="50dp"
639     android:layout_marginEnd="50dp"
640     android:text="CIVIL"
641     app:layout_constraintEnd_toStartOf="@+id/button9"
642     app:layout_constraintStart_toStartOf="parent"
643     app:layout_constraintTop_toBottomOf="@+id/button6" />
644
645 <Button
646     android:id="@+id/button9"
647     android:layout_width="wrap_content"
648     android:layout_height="wrap_content"
649     android:layout_marginStart="50dp"
650     android:layout_marginTop="50dp"
651     android:layout_marginEnd="100dp"
652     android:text="CHEMI"
653     app:layout_constraintEnd_toEndOf="parent"
654     app:layout_constraintStart_toEndOf="@+id/button8"
655     app:layout_constraintTop_toBottomOf="@+id/button7" />
656
657 <ImageView
658     android:id="@+id/imageView2"
```

```
659     android:layout_width="368dp"
660     android:layout_height="203dp"
661     android:layout_marginStart="38dp"
662     android:layout_marginTop="14dp"
663     android:layout_marginEnd="27dp"
664     app:layout_constraintEnd_toEndOf="parent"
665     app:layout_constraintStart_toStartOf="parent"
666     app:layout_constraintTop_toBottomOf="@+id/textView"
667     app:srcCompat="@drawable/bgimgminor" />
668
669 </androidx.constraintlayout.widget.ConstraintLayout>
```

Output

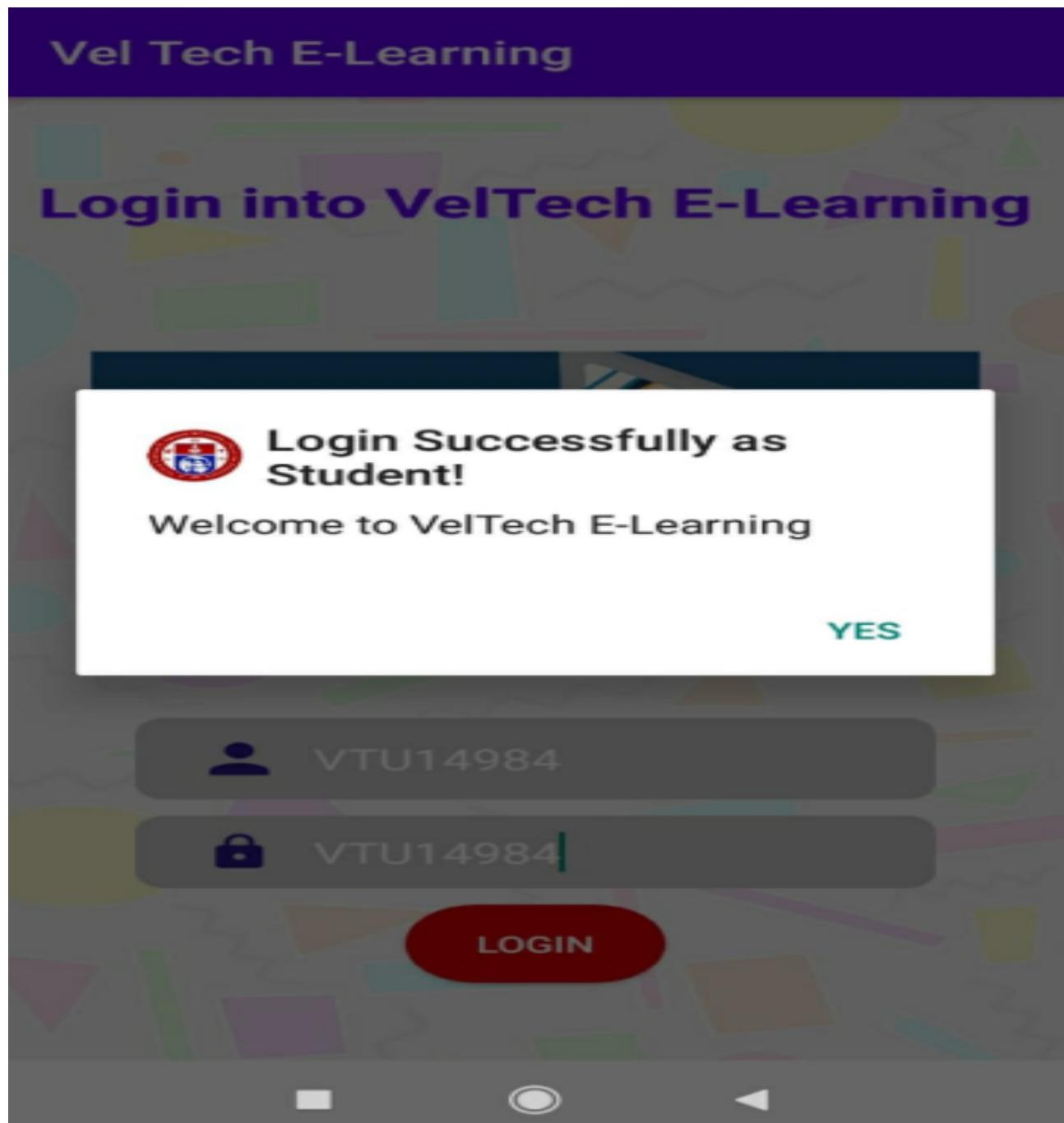


Figure 6.1: Output 1

VIEW PDF

UPLOAD PDF

Figure 6.2: Output 2

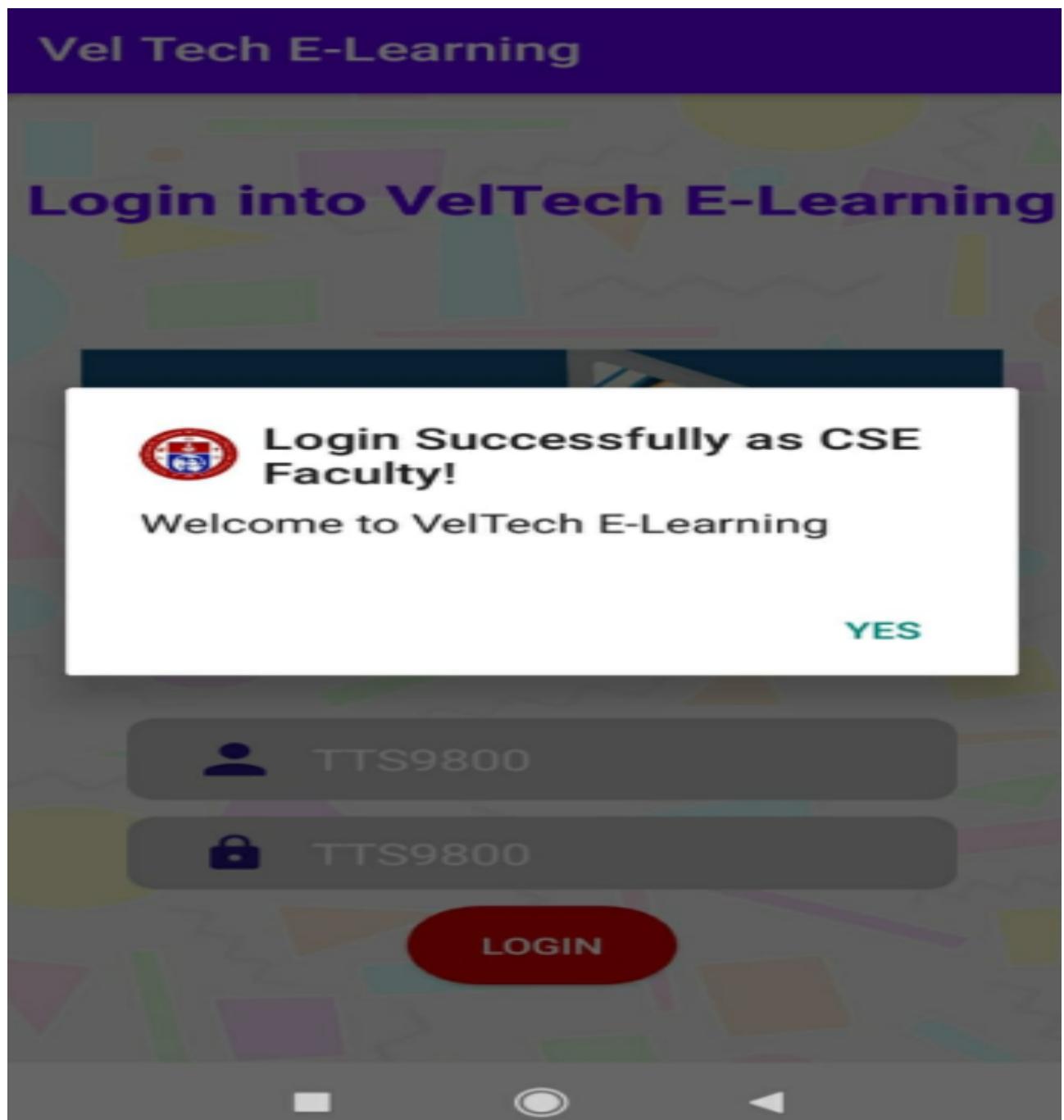


Figure 6.3: Output 3



Figure 6.4: Output 4

Computer science

DATA

JAVA

PYTHON

ARTIFICIAL INTELLIGENCE

MACHINE LEARNING

CLOUD COMPUTING CONCEPTS

CRYPTOGRAPHY AND NETWORK SECURITY

Figure 6.5: Output 5

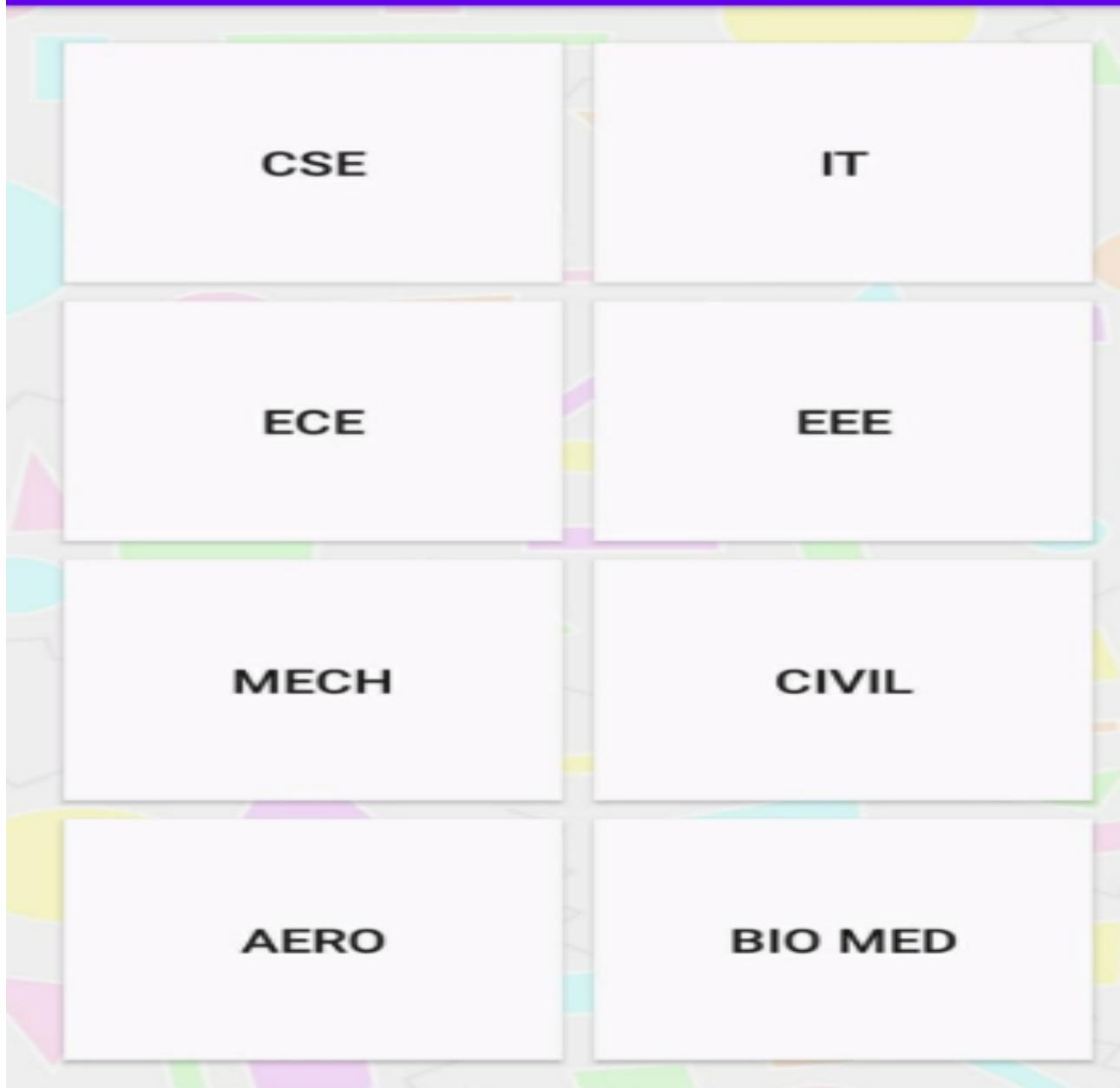


Figure 6.6: Output 6

Chapter 7

CONCLUSION AND FUTURE ENHANCEMENTS

7.1 Conclusion

We have developed a new approach to sharing information between students and lecturers in order to enhance quality of information in campus environment. We describe a networks for distributing campus information among students and lecturers. The concept of developing this system is to ensure that student can access information at any time, at any locations.

7.2 Future Enhancements

The Future Enhancement of The Project is to include class room discussion videos and Live Quiz's and to implement the virtual learning concept.

Chapter 8

PLAGIARISM REPORT

Curiginal

Document Information

Analyzed document	Surya's1.pdf (D108855148)
Submitted	6/14/2021 1:41:00 PM
Submitted by	RAVIKUMAR. S
Submitter email	ravikumars@veltech.edu.in
Similarity	12%
Analysis address	ravikumars.veltec@analysis.urkund.com

Sources included in the report

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SA	Vel Tech Rangarajan Dr. Sagunthala Institute / MINOR FINAL REPORT.pdf Document MINOR FINAL REPORT.pdf (D75731935) Submitted by: sraghavendran@veltech.edu.in Receiver: sraghavendran.veltec@analysis.urkund.com	 8
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SA	Vel Tech Rangarajan Dr. Sagunthala Institute / crime major final report.pdf Document crime major final report.pdf (D67946792) Submitted by: vijayaraj@veltech.edu.in Receiver: vijayaraj.veltec@analysis.urkund.com	 1
SA	Vel Tech Rangarajan Dr. Sagunthala Institute / Minor_Vinay.pdf Document Minor_Vinay.pdf (D74807622) Submitted by: drarulkumarang@veltech.edu.in Receiver: drarulkumarang.veltec@analysis.urkund.com	 9
W	URL: https://discuss.kotlinlang.org/t/message-is-not-displaying-when-clicking-on-send-button/5563 Fetched: 3/5/2020 10:19:56 PM	 1
SA	Vel Tech Rangarajan Dr. Sagunthala Institute / Maneesh_Attached_one_Copy_(p).pdf Document Maneesh_Attached_one_Copy_(p).pdf (D108759105) Submitted by: almasbegum@veltech.edu.in Receiver: almasbegum.veltec@analysis.urkund.com	 2
SA	Vel Tech Rangarajan Dr. Sagunthala Institute / Android Blood Donor LSA Report.pdf Document Android Blood Donor LSA Report.pdf (D74838322) Submitted by: nksenthilkumar@veltech.edu.in	 2

Figure 8.1: Plagiarism Report

Chapter 9

SOURCE CODE & POSTER PRESENTATION

9.1 Source code

The screenshot shows the Android Studio interface with the project 'Suresh' open. The left sidebar displays the project structure, including the 'app' module with its sub-directories like 'manifests', 'java', 'res', and 'gradle Scripts'. The 'res' directory is expanded, showing the 'drawable' folder containing files such as 'elearn.jpg', 'first.jpg', 'first1.jpeg', 'ic_launcher_background.xml', 'ic_launcher_foreground.xml', 'lucky.jpeg', and 'veltech_logo.jpg'. The main editor area shows the XML code for 'activity_main.xml':

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center">
    <ImageView
        android:layout_marginTop="20dp"
        android:layout_width="200dp"
        android:layout_height="200dp"
        android:id="@+id/imageView"
        android:layout_marginBottom="20dp"
        app:srcCompat="@drawable/veltech_logo"/>
    <TextView
        android:id="@+id/textView"
        android:layout_width="300dp"
        android:layout_height="80dp"
        android:layout_marginBottom="20dp"
        android:background="#FFFFFF"
        android:text="Welcome to VelTech E-Learning"
        android:textColor="#E591E6"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        tools:ignore="HardcodedText"/>

```

The right side of the interface shows the 'Design' tab, where the visual representation of the app's home screen is displayed. It features a large circular logo at the top, followed by the text 'Welcome to VelTech E-Learning' in bold black font, and two purple rectangular buttons labeled 'V-LEARN LOGIN' and 'E-LEARN LOGIN'. The bottom status bar shows system information like battery level (80%), signal strength, and the date and time (23-04-2021, 0956 AM).

Figure 9.1: source code 1

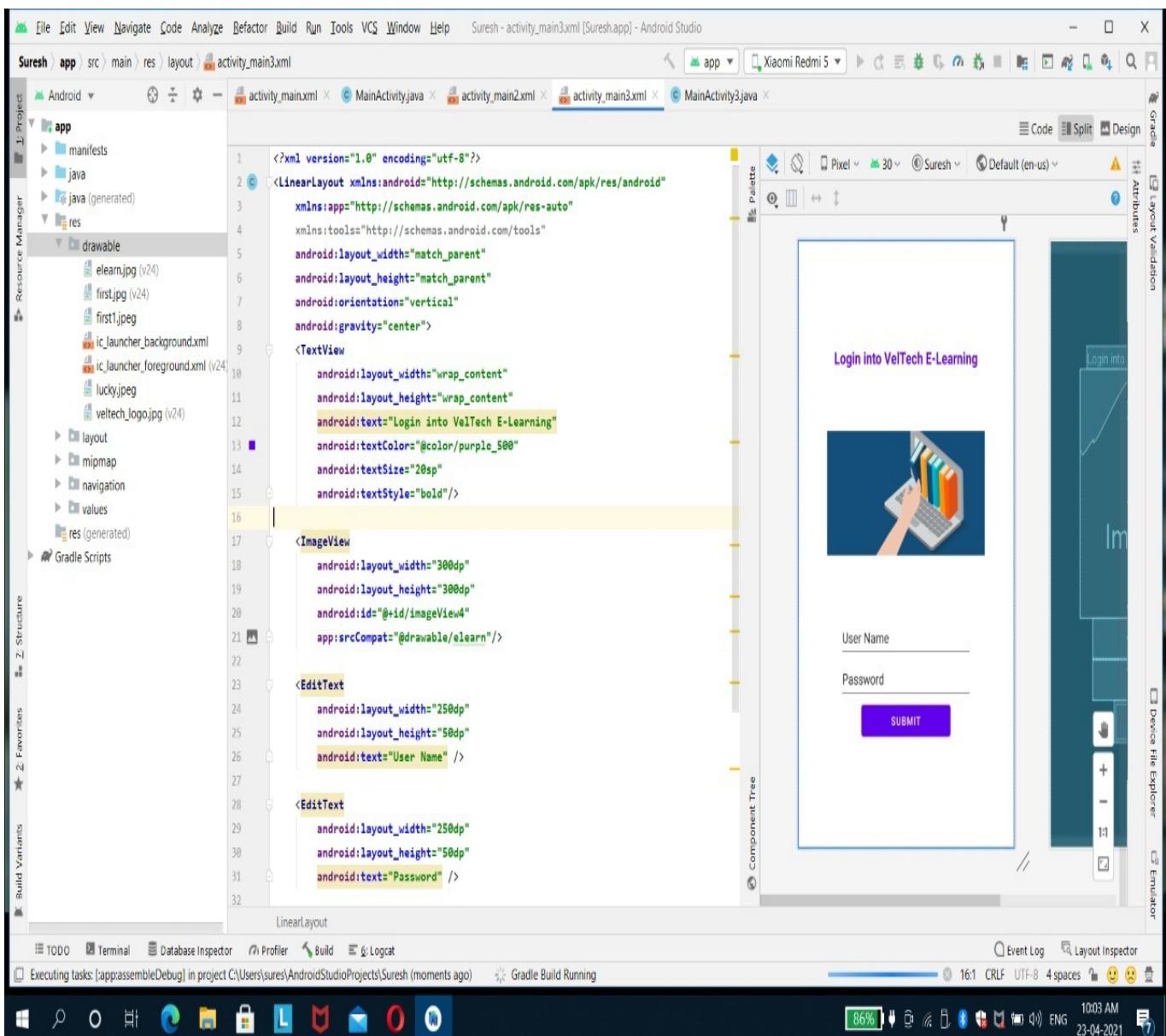


Figure 9.2: source code 2

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar shows the project structure under "app".
- File List:** The top navigation bar shows the file "doc_item.xml" is selected.
- Code Editor:** The main area displays the XML code for "doc_item.xml".

```
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginBottom="5dp"
    android:background="@color/colorPrimary">

    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
        xmlns:app="http://schemas.android.com/apk/res-auto"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="2dp"
        android:orientation="horizontal">

        <ImageView
            android:id="@+id/imageView"
            android:layout_width="wrap_content"
            android:layout_height="match_parent"
            android:layout_weight="0.1"
            app:srcCompat="@drawable/doc_icon" />

        <LinearLayout
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="0.8"
            android:layout_marginLeft="5dp"
            android:orientation="vertical">

            <TextView
                android:id="@+id/tDocname"
                android:layout_width="match_parent"
                android:layout_height="wrap_content" />
    
```
- Design Tab:** The right side shows the "Design" tab with a preview of the layout. It features a blue header bar with a white document icon and the text "Document Name" and "Date added". Below this is a white area containing a blue document icon and the text "Document Name" and "Date added".
- Bottom Bar:** The bottom of the screen includes standard Windows-style icons for search, start, task view, file explorer, and others, along with system status icons like battery level (30%), signal strength, and connectivity.

Figure 9.3: source code 3

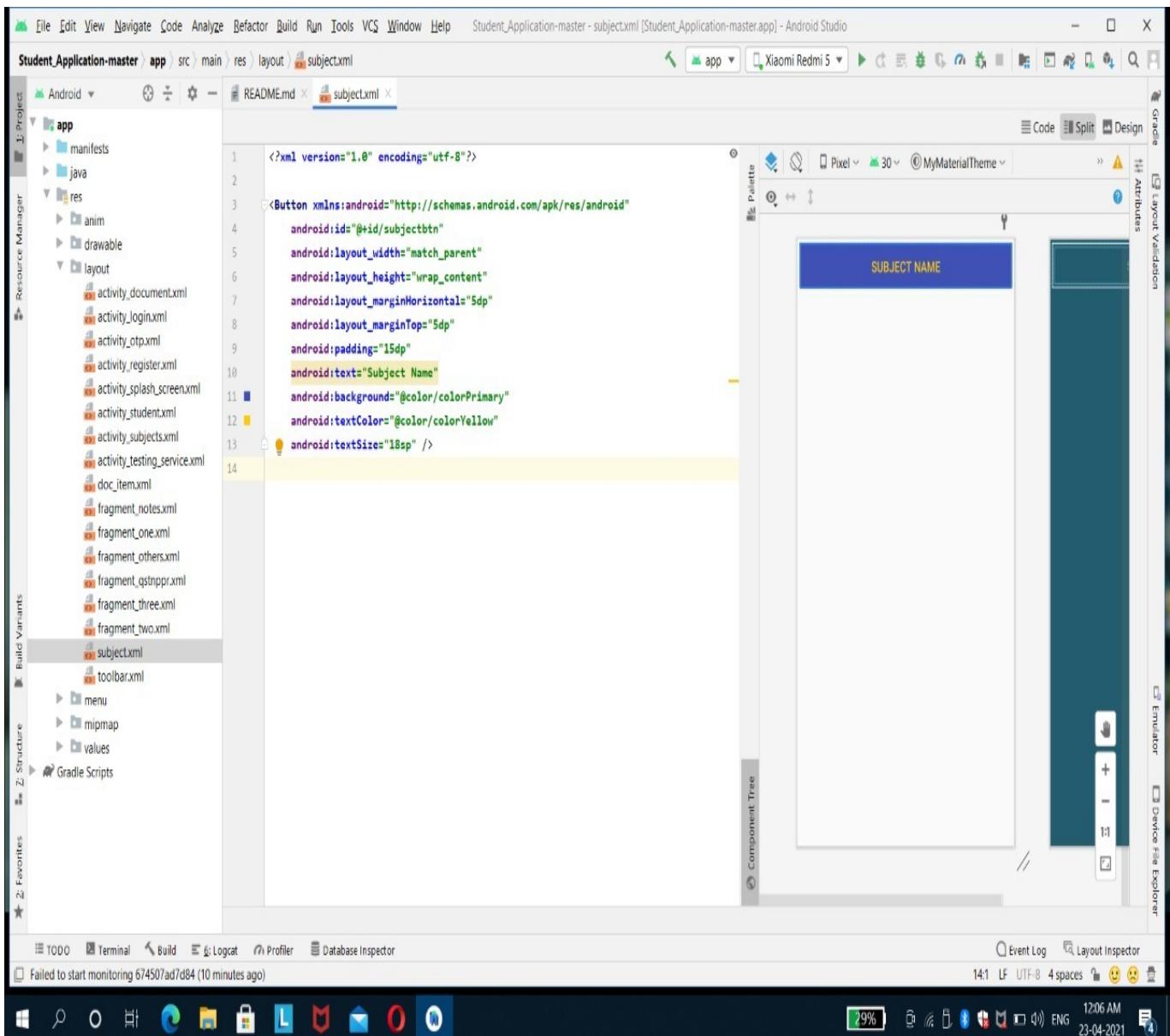


Figure 9.4: source code 4

The screenshot shows the Android Studio interface with the RegisterActivity.java file open in the editor. The code implements an ArrayAdapter to handle user input for registration. It includes fields for first name (eFn), last name (eLn), mobile number (eMob), email (eEmail), user name (eUserName), password (ePass1, ePass2), and course/semester (spinners). The adapter is created from resource files.

```
package com.example.dell.student.Activities;  
import ...  
public class RegisterActivity extends AppCompatActivity implements AdapterView.OnItemSelectedListener {  
    String URL = JApplication.getRegister_url();  
    ArrayAdapter<CharSequence> adapter;  
    Button submit;  
    EditText eFn, eLn, eMob, eEmail, eUserName, ePass1, ePass2;  
    String toastmsg = "null";  
    String fn, ln, course, sem, mob, email, username, pass1, pass2;  
    StringRequest sendDetails;  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_register);  
        eFn = findViewById(R.id.fn);  
        eLn = findViewById(R.id.ln);  
        eMob = findViewById(R.id.mob);  
        eEmail = findViewById(R.id.email);  
        eUserName = findViewById(R.id.username);  
        ePass1 = findViewById(R.id.password);  
        ePass2 = findViewById(R.id.repassword);  
        submit = findViewById(R.id.submit);  
        submit.setOnClickListener(view -> { submitClicked(view); });  
        Spinner spinnercourse = findViewById(R.id.course);  
        Spinner spinnersem = findViewById(R.id.sem);  
        adapter = ArrayAdapter.createFromResource( context: this,
```

Figure 9.5: source code 5

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar displays the project structure under "app". The "Activities" folder contains several Java files: DocumentActivity, Login_Activity (selected), OFActivity, RegisterActivity, Splash_Screen, Student_Activity, and SubjectsActivity.
- Code Editor:** The main editor window shows the source code for `Login_Activity.java`. The code handles user input for login and interacts with a Volley request queue.
- Toolbars and Menus:** The top menu bar includes File, Edit, View, Navigate, Code, Analyze, Befactor, Build, Run, Tools, VCS, Window, Help. The bottom toolbar includes icons for TODO, Terminal, Build, Logcat, Profiler, Database Inspector, Event Log, Layout Inspector, and Device File Explorer.
- Status Bar:** The bottom right corner shows the system status: battery level (26%), signal strength, connectivity, and system time (12:10 AM, 23-04-2021).

```
package com.example.dell.student.Activities;

import ...

public class Login_Activity extends AppCompatActivity {

    public static final String KEY_USERNAME = "username";
    public static final String KEY_PASSWORD = "password";
    public static final String KEY_ACCOUNT = "account";
    private static final String type = "login_details";
    private static String key = "myKey";
    EditText username, passwd;
    String server_url = Application.getLogin_url();
    String userName, password;
    Intent intent;
    Toolbar toolbar;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        username = findViewById(R.id.username);
        passwd = findViewById(R.id.passwd);
        toolbar = findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);
        getSupportActionBar().setDisplayHomeAsUpEnabled(false);
        getSupportActionBar().setTitle("Welcome to Document Sharing");
    }

    public void onLoginClick(View view) {

        userName = username.getText().toString().trim();
        password = passwd.getText().toString().trim();
        final RequestQueue requestQueue = Volley.newRequestQueue(context: Login_Activity.this);
    }
}
```

Figure 9.6: source code 6

9.2 Poster Presentation



LEARNING APP DEVELOPMENT USING CLOUD COMPUTING
Department of Computer Science & Engineering
School of Computing
1156CS501 – MINOR PROJECT
WINTER SEMESTER 20-21

ABSTRACT

At some organization system is not even exist and faculty and students share the information or documents via papers and files only, which may sometimes lead to loss of any documents or important information too.

To develop a new approach to sharing information between students and lecturers in order to enhance quality of information in campus environment.

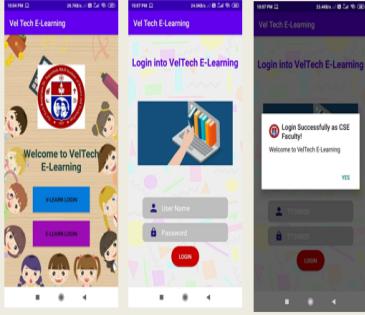
We propose to build this system on an online server that allows faculty to upload data and students may view search and download required documents through their android device and can view those documents through offline.

INTRODUCTION

- The project is an online platform between student and faculty.
- This innovative system allows college faculty to share all data with students.
- It consist of a faculty log in along with student log in.
- Faculty can upload the documents of subject syllabus, time table, e-notes etc. Through their provided log in.
- The purpose to build this system on an online server that allows faculty to upload data and students may view and download required documents through their android device.
- Here students can see and download data of particular course.
- This project has a login page which allows only the registered users to login and thereby preventing unauthorized access. This system can be used to view all the syllabus, updates details. The android mobile user will be able make quick download from anywhere using internet.

RESULT

- Developed a new approach to sharing information between students and lecturers in order to enhance quality of information
- Created this system is to give students access to information at any time and from any place.



FUTURE ENHANCEMENTS

- A password reset feature is added.
- Auto semester updating is added.
- GUI improved in near future.
- Search option is added.
- Report generation and print

TEAM MEMBER DETAILS

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<Student 2 .11126/ **RAYI MAHI PRANEETH** >
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METHODOLOGIES

- MODULE 1:
Data Collection and gathering information
- MODULE 2:
Login as Faculty or Student
- MODULE 3:
Department selection
- Module 4:
Upload documents with respect to relevant subjects
- Module 5:
Download or view the documents



CONCLUSIONS

- We have developed a new approach to sharing information between students and lecturers in order to enhance quality of information in campus environment.
- We describe a networks for distributing campus information among students and lecturers.
- The aim of creating this system is to give students access to information at any time and from any place.
- This is our first attempt in developing a mobile application which give me a basic understanding of development and challenges of mobile application development the application has been implemented and tested on real device.

ACKNOWLEDGEMENT

1. Seminar Supervisor Name: Mrs. S Surya/Designation: Assistant professor
2. Seminar supervisor Contact No:81447 18424
3. Seminar supervisor Mail ID: suryas@veltech.edu.in

Figure 9.7: poster

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