

INTER-DEPARTMENTAL PROJECTS-II REPORT

**“SEM REGISTRATION APPLICATION”**

**Submitted**

by

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201FA04066

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**Under the guidance of**

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Assistant Professor



**VIGNAN'S**

Foundation for Science, Technology & Research

(Deemed to be University)

-Estd. u/s 3 of UGC Act 1956

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**  
**VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH**

**Deemed to be UNIVERSITY**

**Vadlamudi, Guntur.**

ANDHRA PRADESH, INDIA, PIN-522 213

MAY-2023



**VIGNAN'S**

Foundation for Science, Technology & Research

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### **CERTIFICATE**

This is to certify that the Inter-Departmental Projects-II entitled “**SEM REGISTRATION APPLICATION**” that is being submitted by Uday Chand(201FA04066), Lakshmi Narayana(201FA04016), Fayaz(201FA04035) for partial fulfilment of Inter-Departmental Projects-II is a bonafide work carried out under the supervision of Mr.S.Deva Kumar, Assistant Professor from Department of Computer Science & Engineering.

Mr. S.Deva Kumar Assistant Professor	Dr.K.V.Krishna Kishore Professor & HOD, CSE
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Internal Examiner

External Examiner

# **VIGNAN'S FOUNDATION FOR SCIENCE, TECHNOLOGY AND RESEARCH**

**Deemed to be UNIVERSITY**

VADLAMUDI, GUNTUR DIST, ANDHRA PRADESH, INDIA, PIN-522 213



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## **DECLARATION**

We hereby declare that the Inter-Departmental Projects-II entitled “**SEM REGISTRATION APPLICATION**” is being submitted by UdayChand(201FA04066), Lakshmi Narayana(201FA04016), Fayaz(201FA04035) in partial fulfilment of Inter-Departmental Projects-II course work. This is our original work, and this project has not formed the basis for the award of any degree. We have worked under the supervision of Mr.S.Deva Kumar,Assistant Professor from the Department of Computer Science & Engineering.

By

**Uday Chand(201FA04066),**

**Lakshmi Narayana(201FA04016),**

**Fayaz(201FA04035)**

Date: 28/03/2023



## **ABSTRACT**

- Every University requires a certain application system to maintain record of the students of a particular semester.
- Sem registration App is developed for the University to maintain students record of that particular semester.
- It uses the android technology to take the students' details and stores it into the respected database using the firebase which is much faster than the previous method.

## **Objective**

The main objective is to ensure that to reduce the paperwork during the process of registration of the student for their every new semester. This application includes registration of the students to the current semester courses through the mobile application and as step of validation, the student is supposed to upload the fee receipt which is accessed and cross verified by the admin(FINANCE DEPARTMENT) after being verified by the admin then the student will be successfully registered for the current semester courses the alert will be sent to the registered mobile number and email.

## **Existing System**

- Traditional registration techniques i.e, pen and paper or going to the respected person for registration which consumes more time.
- As the method stated above it must require the students to attend physically to the college.

## **Proposed System**

- The architecture for the proposed system has been designed to keep it pretty straightforward and easy to understand.
- The steps that have to be undertaken to reach the final end step of the system which is making sure the registration of the student is updated correctly and timely.
- The system can be easily accessed where registration of the students can easily be checked and maintained by the faculty.

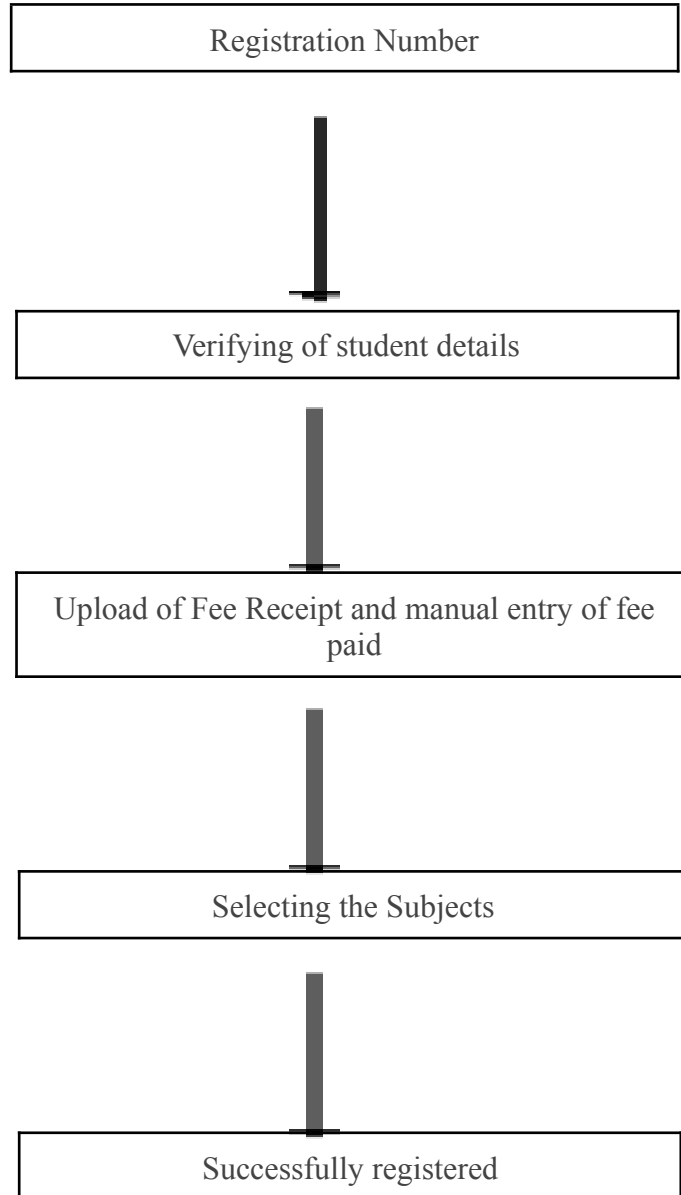
## **Hardware requirements**

- Laptop with 8 GB RAM or above
- Computer (i5, 8gb)
- Android Mobile
- Hard Disk:- 1TB

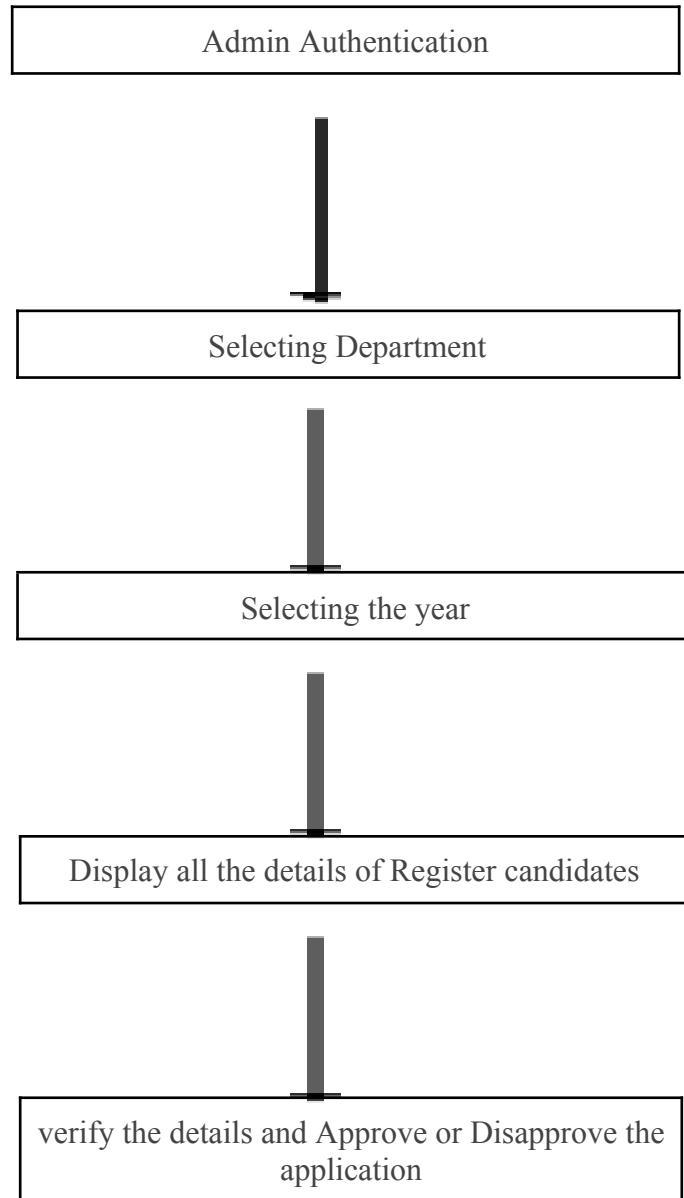
## **Software requirements**

- Android Studio
- FireBase
- Java
- Windows 10

## Working

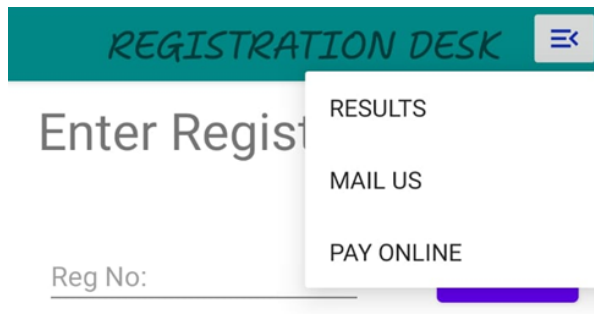


## Admin





## ScreenShots:



The Main activity of the registration page consists of an action bar and the menu bar. The menu bar consists of three components:

when the student click on the respective menu item the student will be directly redirected to that particular URL of the university to perform the actions.



Name :	NUTHI VENKATA UDAY CHAND
Year :	3
Gender :	M
Branch :	cse
Section :	A
Semister :	2
Mail :	<u>nvuc7518@gmail.com</u>
Mobile :	<u>8919981639</u>

**NEXT**

The data has been successfully retrieved from the Realtime database and the edit option is given to the edit text fields (MAIL, MOBILE) by which students can able to update their details.

## Realtime Database

Data Rules Backups Usage Extensions **NEW**

https://idp163566-30eaa-default-rtdb.firebaseio.com

**⚠️ Your security rules are defined as public, so anyone can steal, modify or delete data in your database** [Learn more](#) [Dismiss](#)


```
{
  "Branch": "cse",
  "Current year": 3,
  "Gender": "M",
  "Name": "NUTHI VENKATA UDAY CHAND",
  "Registerno": "201FA04066",
  "Section": "A",
  "Student mobile": "8919981639",
  "Ur1": {
    "imageUrl": "https://firebasestorage.googleapis.com/v0/b/idp163566-30eaa.appspot.com/o/1681790224608.jpg?alt=media&token=8fb0d0e2-e7ba-4e8f-894d-7...",
    "mail": "nvuc7518@gmail.com",
    "semester": 2
  }
}
```

The image which has been uploaded to the firebase storage consists of the unique URL and that particular URL is being updated in the particular URL column of the above JSON file which will be retrieved later by the ADMIN


IDP163566 Storage

gs://idp163566-30eaa.appspot.com

[Upload file](#)

Name	Size	Type	Last modified
 1681790224608.jpg	113.06 KB	image/jpeg	18 Apr 2023

**1681790224608.jpg**



Name  
[1681790224608.jpg](#)

Size  
115,776 bytes

Type  
image/jpeg

Created  
18 Apr 2023, 09:27:07

Updated  
18 Apr 2023, 09:27:07

File location

Other metadata

uploading File...

Fees Paid :

NEXT

- ✓ 16EC305:Computer Architecture and Organization
- ✓ 16EC306:VLSI Design
- ✓ 16EC307:Antenna Propagation
- ✓ 16EC308:Digital Signal Processing
- ✓ 16HS301:Professional Ethics

**Retrieval of the subjects of the student based upon the students department and the current year and the semester**

- ✓ By checking this you will be eligible for list of courses displayed above

**SUBMIT**

## Realtime Database

Data Rules Backups Usage Extensions **NEW**

https://idp163566-30eaa-default-rtadb.firebaseio.com

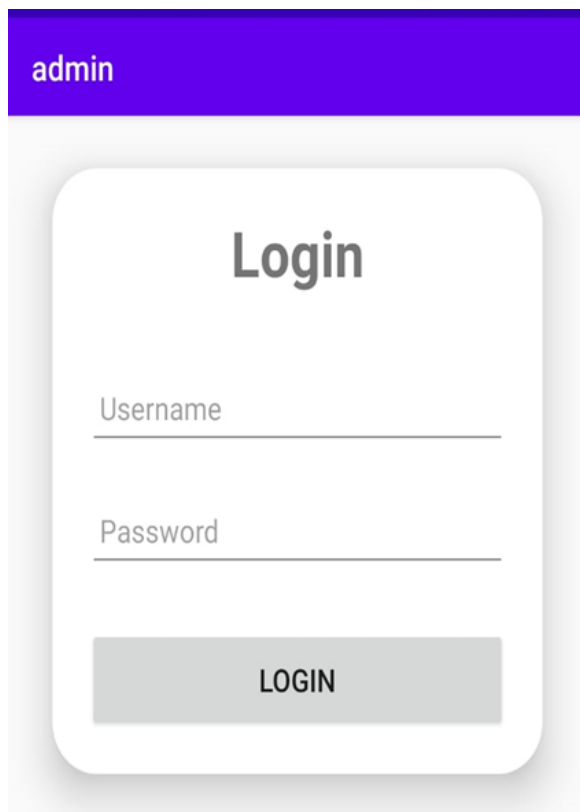
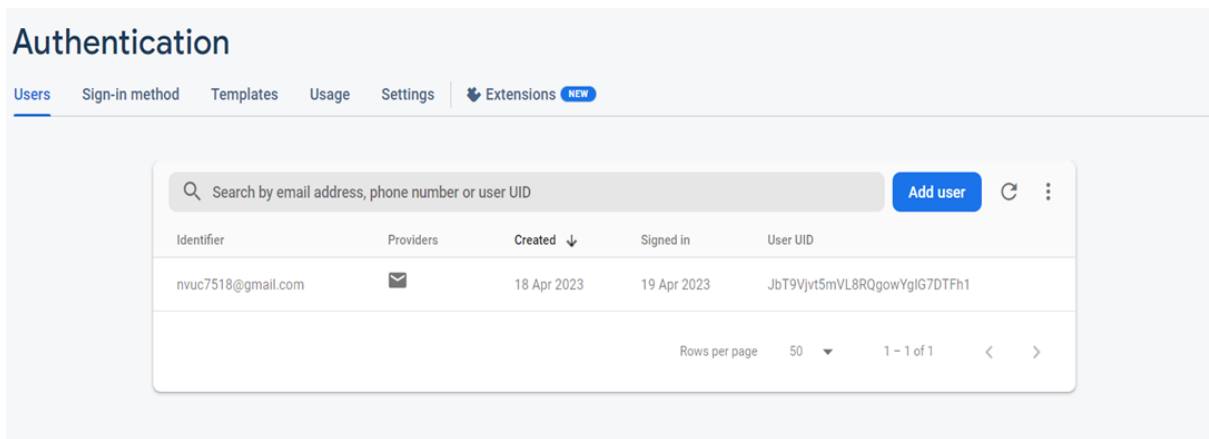
⚠ Your security rules are defined as public, so anyone can steal, modify or delete data in your database

```

CSE
├── 1
├── 2
├── 3
│   ├── 1
│   └── 2
│       ├── 19HS301: "Human Values,Professional Ethics and Gender Equity"
│       ├── 19CS311: "Cryptography and Network Security"
│       ├── 19CS312: "Mobile Computing"
│       ├── 19CS313: "Artificial Intelligence"
│       ├── 19HS206: "Professional Communication Laboratory"
│       ├── 19PC013: "Employability skills-II"
│       ├── 19PC014: "Inter-departmental Projects-II"
│       ├── CSE: "Department Elective-II"
│       └── NPTEL: "Open Elective-II"
└── 4
  
```

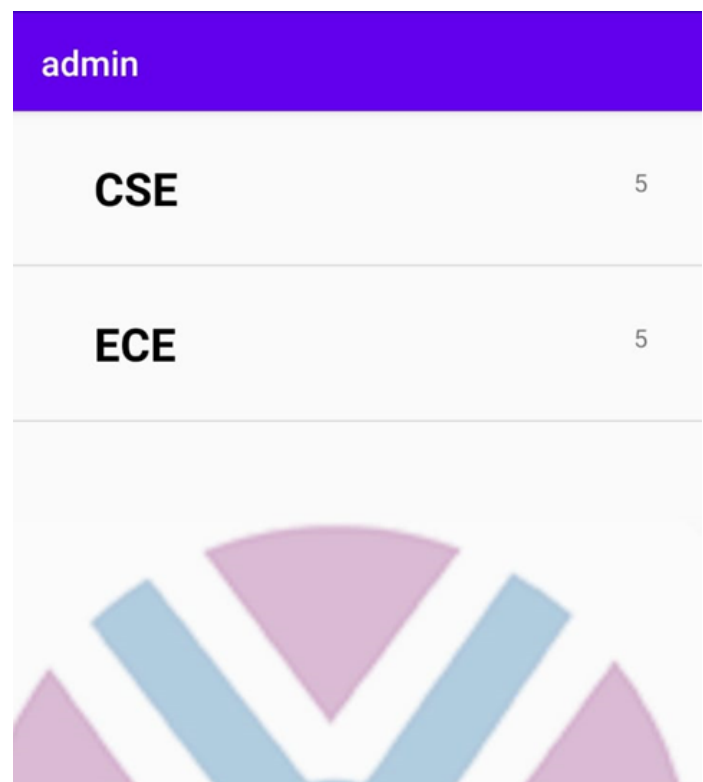
- ✓ 19HS301:Human Values,Professional Ethics and Gender Equity
- ✓ 19CS311:Cryptography and Network Security
- ✓ 19CS312:Mobile Computing
- ✓ 19CS313:Artificial Intelligence
- ✓ 19HS206:Professional Communication Laboratory
- ✓ 19PC013:Employability skills-II
- ✓ 19PC014:Inter-departmental Projects-II
- ✓ CSE:Department Elective-II
- ✓ NPTEL:Open Elective-II
- ✓ By checking this you will be eligible for list of courses displayed above

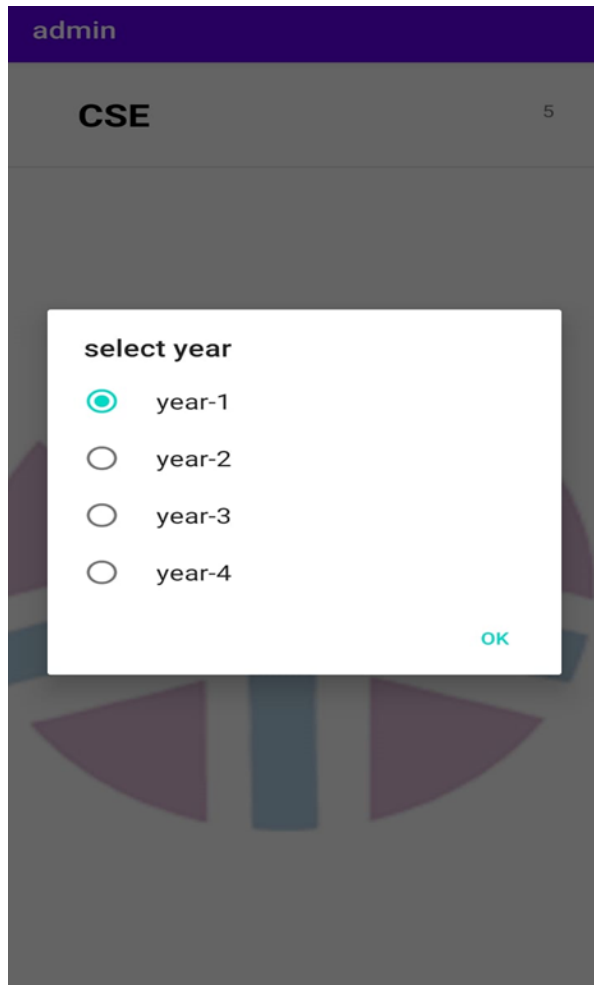
**SUBMIT**



Login page where admin can login, the Authentication is also provided for the Admin login.

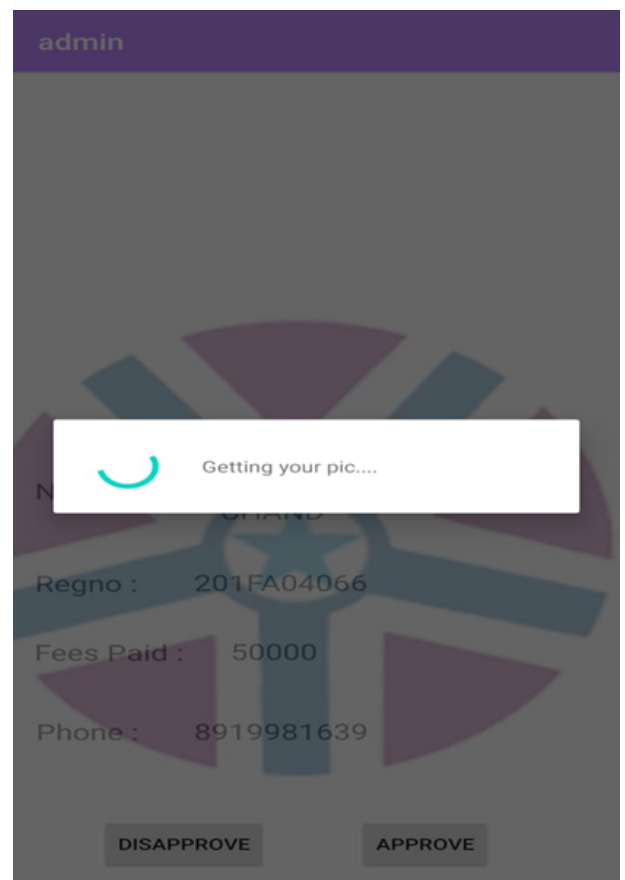
This activity consists of a list of all the Departments until and unless the students of that particular department submitted the details





After selecting the particular Department next task includes the selection of the year.

After selection of year ,details of registered students are displayed such that admin selects each student one by one then validates each student one by one.



admin



Name : NUTHI VENKATA UDAY CHAND

Regno : 201FA04066

Fees Paid : 50000

Phone : 8919981639

DISAPPROVE

APPROVE

The activity will display the information along with the image which has been uploaded by the student.

The next task of the admin is to verify the details and Approve or Disapprove the Application by notifying the student by the text messages.



+916304547344  
India

10:04 AM

Your Registration succesfull

The text message will be send the registered mobile number by using the Google API's



Text message











## **FUTURE SCOPE**

Things to be implemented in this project.

- As of now we are only retrieving the image from the Database and there is no magnification of the image. In future I want to implement the magnification of image feature to the fee receipt uploaded by the student.
- In the future I want to implement the Exam registration portal in our application which helps the students register for the examinations as well.
- As of now I have implemented the notifications by using the Google API but in the future I have the notification task by using the Firebase component Cloud Messaging.

## **CONCLUSION**

Before the development of this project.

- There were many problems in the previous method while registration of semester courses using the old method caused many troubles to most of the institutions(usage of paper system).
- Therefore, the Sem registration feature method is secure, reliable and available for use in a faster and quick way.
- It saves time and cost of papers, especially manual entry using extra operators can be avoided.