PROJECT REPORT ON

CREATION OF WEB AND MOBILE APPLICATIONS FOR ORGANIZING COLLEGE EVENTS

Submitted in partial fulfilment for the requirements of

COSC INTERNSHIP DRIVE

By

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JUNE-2020

CERTIFICATE

This is to certify that the project titled " " is the bonafide work carried out by **Vishal Chandra Jongoni (CSE-3/4), Vidyadhar Pogul (CSE-3/4), Sirnam Sanjana(CSE-2/4), Keerthi Boya(CSE-2/4), Lavanya Gandla(CSE-2/4), Hyndevi Deshmukh(CSE-1/4),Surya Mahati (CSE-1/4), Saloni Dayal(CSE-1/4)** a student of B.E(CSE) of Chaitanya Bharathi Institute Of Technology, Hyderabad, affiliated to Osmania University ,Hyderabad , Telangana(India) submitted in partial fulfilment of the requirements for the **COSC INTERNSHIP DRIVE .**

MENTORS

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Sriram Valiveti

Head of the Department(CSE)

Dr.Y.Ramadevi

DECLARATION

We hereby declare that the project entitled “Events App Excluding Shruthi, Sudhee “ submitted for the **COSC INTERNSHIP DRIVE** is our original work and the project**.**

Name(s) and Signatures(s) of the Student

Vishal Chandra Jongoni

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Place: Hyderabad

Date:30-06-2020

ABSTRACT

Many events take place in the college throughout the academic year which are held by different clubs, departments etc... The clubs and departments approach students manually or through sharing the details of the event in the WhatsApp groups etc.. There is no good platform through which one can get the details of the events happening in the college or there is no platform where one can publicize their event so that every student in the college can get to know about it.

To solve this, there is a need for a platform where one can publicize the events happening in the college. So this project is basically about creating a Web Application where an Event Organizer can register the event so that this event can reach all the students in the college and also creating a Mobile Application where a student can go through all the events in past, ongoing and upcoming fashion and can register the events which the student is interested in and also can unroll the registered events if one is not interested in the event anymore.

ACKNOWLEGMENTS

We would like to express our heartfelt gratitude to our student mentor **Sriram Valiveti** for his valuable guidance and constant support, along with his incapable instruction and persistent encouragement.

We are also grateful to our faculty mentor **Smt.Shanmukhi Rama,** for her steady support and the provision of every resource required for the completion of the project.

We would like to take this opportunity to thank the **COSC Club** for organizing this internship drive for designing excellent learning atmosphere for completing our project.

We would like to express our sincere gratitude to the head of the departments of both **CSE** and **IT** for their constant support and encouragement

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1.INTRODUCTION

1.1 Problem Definition including significance and objective

Our main goal is to create an application for organizing all the college events except those which are scheduled during SHRUTHI and SUDHEE. This application leads to the handling and formation of events and their scheduling. This application provides information regarding the events that are being conducted in college at one place.

The project provides an easy process of communication to schedule and coordinate events by using an internet based application. The registered clubs can post their new events and schedules. The end users, that is the students can easily see the list of all the events and can register through the registration forms for the upcoming events provided by giving some credentials required.

1.2 Methodologies

Our application benefits three kinds of users. Firstly, club coordinator who first need to sign up inorder to register their club. After admin manual verification he /she can login to create ,organize or delete their club events. Secondly end-users i.e students who can login into their accounts using their credentials then they can either enroll or unroll in the events conducted by the different clubs. Thirdly, admin, who can access the access the databases, can add/delete any event/club.

1.3 Outline of the results

Through this application the users can enroll for the events held in our college and the details are updated into the database. In the web application, the home page contains admin login, club sign in and sign up. Admin has to provide required login credentials after which they are directed to the Admin page where they can have access to pending requests for the club's registration. In the club sign in, users can see details of the clubs and events and they can also add/delete events if needed. In club sign up, one can request Admin to add a club. End users can easily get the details of upcoming, ongoing and past events by just logging in to the application and can even register for the desired events. Users can also view the list of events for which they have enrolled. End users will get a

reminder for their registered events as a notification one day prior to the event. They can also unenroll themselves and are also provided with the facility to communicate with the clubhead through email.

1.4 Scope of the project

The project can be used by any end user and this helps in easy identification and scheduling of the events. They can either enroll or can get information about the events organised in college. It needs to be observed that using the web application, the admin can easily manage the events and also they can access all the students registered for events, Android users and all the clubs registered.

2.LITERATURE SURVEY

2.1 Introduction to the problem domain

Organizing an event is a tedious task. The main problem which the students face is publicity. Not all the students might know about the events being organized. So students who are interested might miss the opportunity. To avoid that we have created an events application where club coordinators can register their club and organize their club events. At the same time students can register themselves into whichever event they want to. Students can either enroll or unroll before the event starts. Apart from club co-ordinators and students, there is one more user called admin. Admin can handle everything. He can either accept or deny the club registrations, can know the details of all the students registered for the events conducted by the clubs, details of all the events organised, details of the clubs. We created two applications one is web and the other is android. Only the admin and club coordinators can use the web application whereas the end-users i.e students need to use mobile application.

Academics play an important role for deciding the growth of an individual as a student. But there are so many things to learn and explore. Classroom teaching is not enough to compete in this fast growing modern world. Organizing and attending events has proven to be one of the beneficial factors for the overall development of a student.

2.2 Existing solutions

Our college doesn't have an application where the students can conduct or enroll in events. The current project will help fulfill the above criteria.

2.3 Hardware Requirements

- Laptop/PC with a minimum of 4GB RAM
- Smartphones with android based OS

2.4 Software Requirements

- Python latest version
- Django (python web framework)
- Mysql
- Flask (python web framework)
- Postman tool
- Android Studio

- Java
- Git, GitHub
- HTML, CSS, Bootstrap, Javascript.

3. DESIGN OF THE PROPOSED SYSTEM

3.1 UML DIAGRAMS

Fig-3.1 Use Case Diagram

This fig is the Use Case Diagram for our Application.

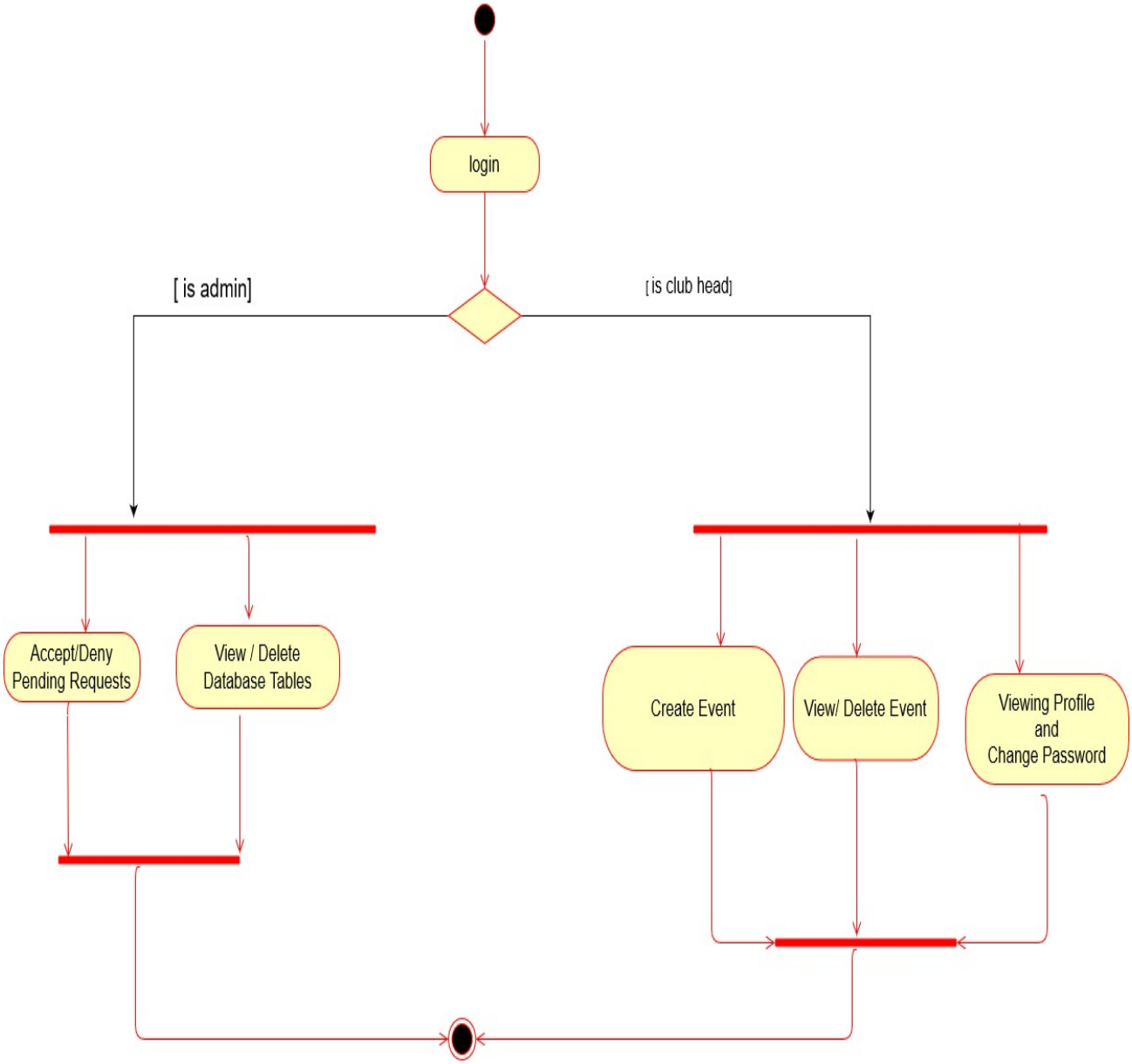


Fig-3.2 Activity Diagram-1

This fig is the Activity Diagram for our Web Application.

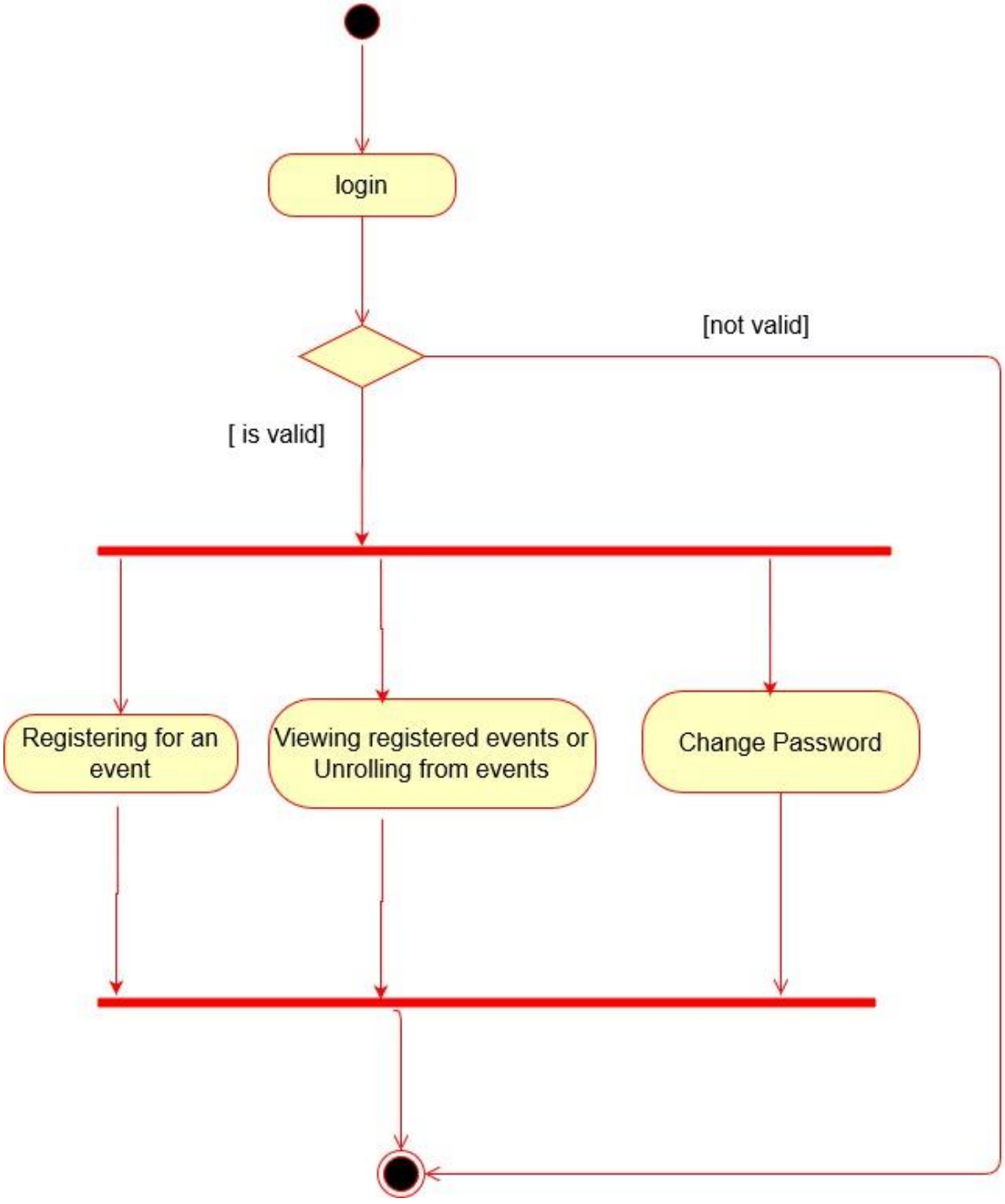


Fig-3.3 Activity Diagram-2

This fig is the Activity Diagram for our Web Application.

3.2 Description of Modules

Web application:

This module is used by admin and club heads. It is used by admin to accept or deny club registrations and view or delete any database entries. It is used by the club heads to create and manage their events. It's built using Django framework and HTML, CSS, JavaScript, Bootstrap.

Mobile application:

This module is used by end users(students) to view the past, ongoing or upcoming events and register accordingly. They can also view their registered events and get a notification to them one day prior to its start date. Android using Java is used to develop this application.

API's and Database:

This module defines the API calls by executing the required queries and return the data. They are written in Flask with the help of restful api's and the database used is MySQL.

Postman tool is used to test these API calls.

4. IMPLENTATION OF THE PROPOSED SYSTEM

4.1 Pseudo Code

Code for an api call by admin :

```
from flask_restful import Resource,reqparse
from werkzeug.security import safe_str_cmp
from flask_jwt_extended import create_access_token,jwt_required
from db import query
class AdminDeleteEventAndUser(Resource):
    @jwt_required
    def get(self):
        parser=reqparse.RequestParser()

parser.add_argument('eventname',type=str,required=True,help="eventname
cannot be left blank!")
        data=parser.parse_args()
        query(f"""DELETE FROM webapp.eventsregistered WHERE
eventname LIKE '{data["eventname"]}' """)
        return  {"message":"Successfully deleted event!"}, 200
    @jwt_required
    def post(self):
        parser=reqparse.RequestParser()
        parser.add_argument('rollno',type=str,required=True,help="rollno
cannot be left blank!")
        data=parser.parse_args()
        query(f"""DELETE FROM webapp.userslogin WHERE rollno LIKE
'{data["rollno"]}' """)
        return  {"message":"Successfully deleted user!"}, 200
```

Code to call an api by admin in Web application :

```
def admindeleteeventanduser(request):
    global admintoken
    if request.method == 'POST':
        eventname = request.POST.get('eventname')
        data =
requests.get("https://cbitevents.herokuapp.com/admindeleteeventanduser",h
eaders = {'Authorization':'Bearer
{}'.format(admintoken)},data={'eventname':eventname})
        data = data.json()
        context=getevents()
        return render(request,'showallevents.html',context)
```

```
    else:
        rollno = request.GET.get('rollno')
        print(rollno)
        print("\n")
        data =
requests.post("https://cbitevents.herokuapp.com/admindeleteeventanduser",
headers = {'Authorization':'Bearer
{}'.format(admintoken)},data={'rollno':rollno})
        data = data.json()
        context=showusers()
        return render(request,'showusers.html',context)
```

Code of a layout from Mobile application :

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".UpcomingEvents">

    <ListView
        android:id="@+id/upcomingevents"
        android:layout_width="match_parent"
        android:layout_height="match_parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

4.2 Database Description:

Our database has 5 tables(admin, userslogin, clubsregistered, eventsregistered, studentsregistered).
admin table has loginid as primary key.
userslogin table has rollno as primary key.
clubsregistered table has club name as primary key.
eventsregistered table has eventname as primary key and club name as a foreign key.
students registered table has eventname as foreign key.

5. RESULTS

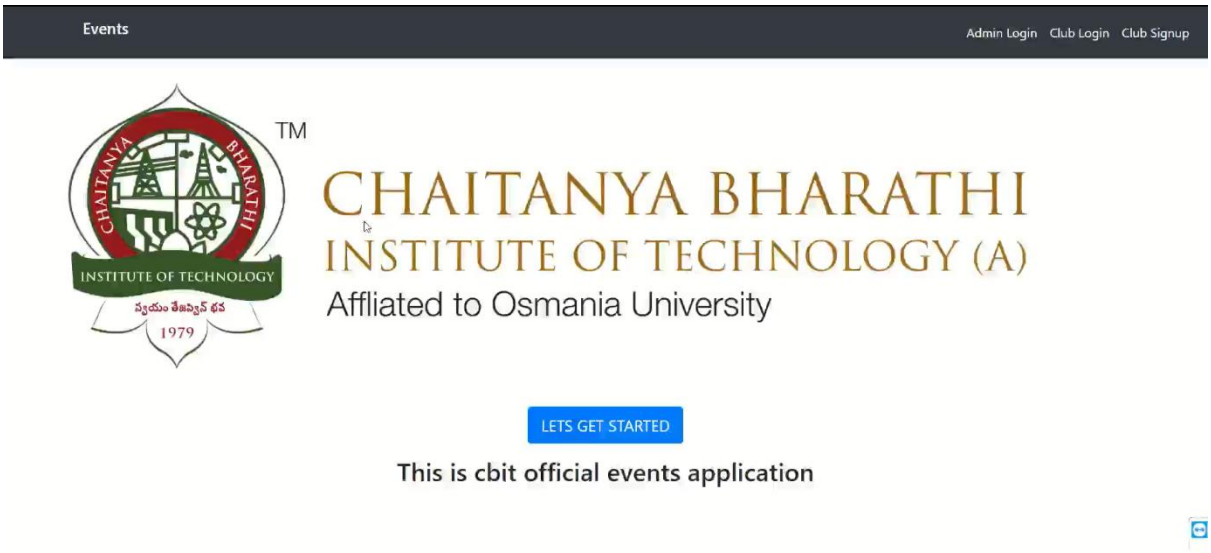


Fig – 5.1

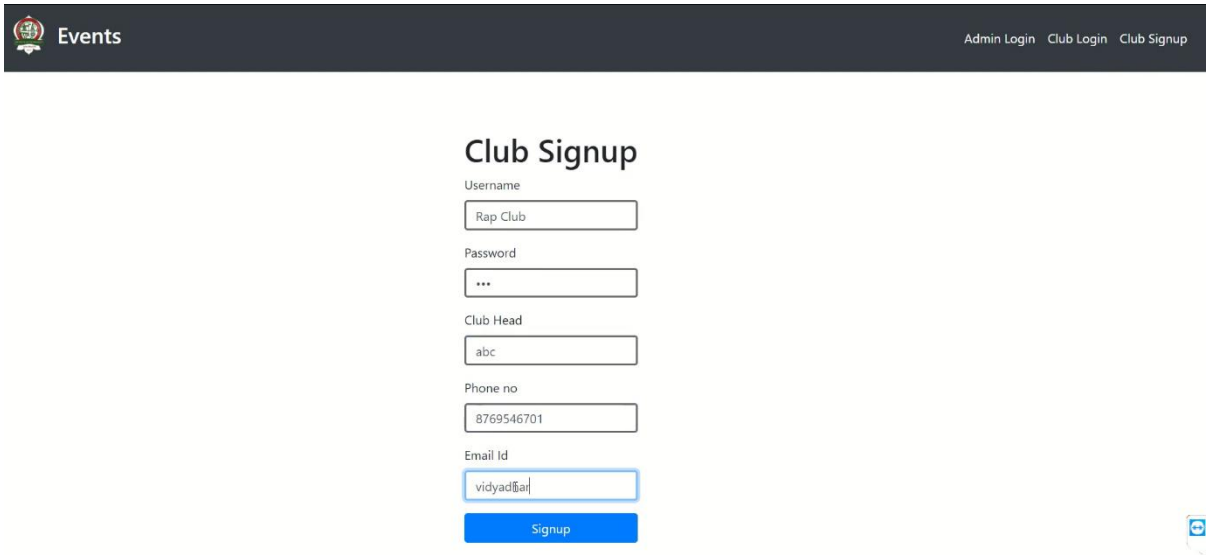


Fig – 5.2

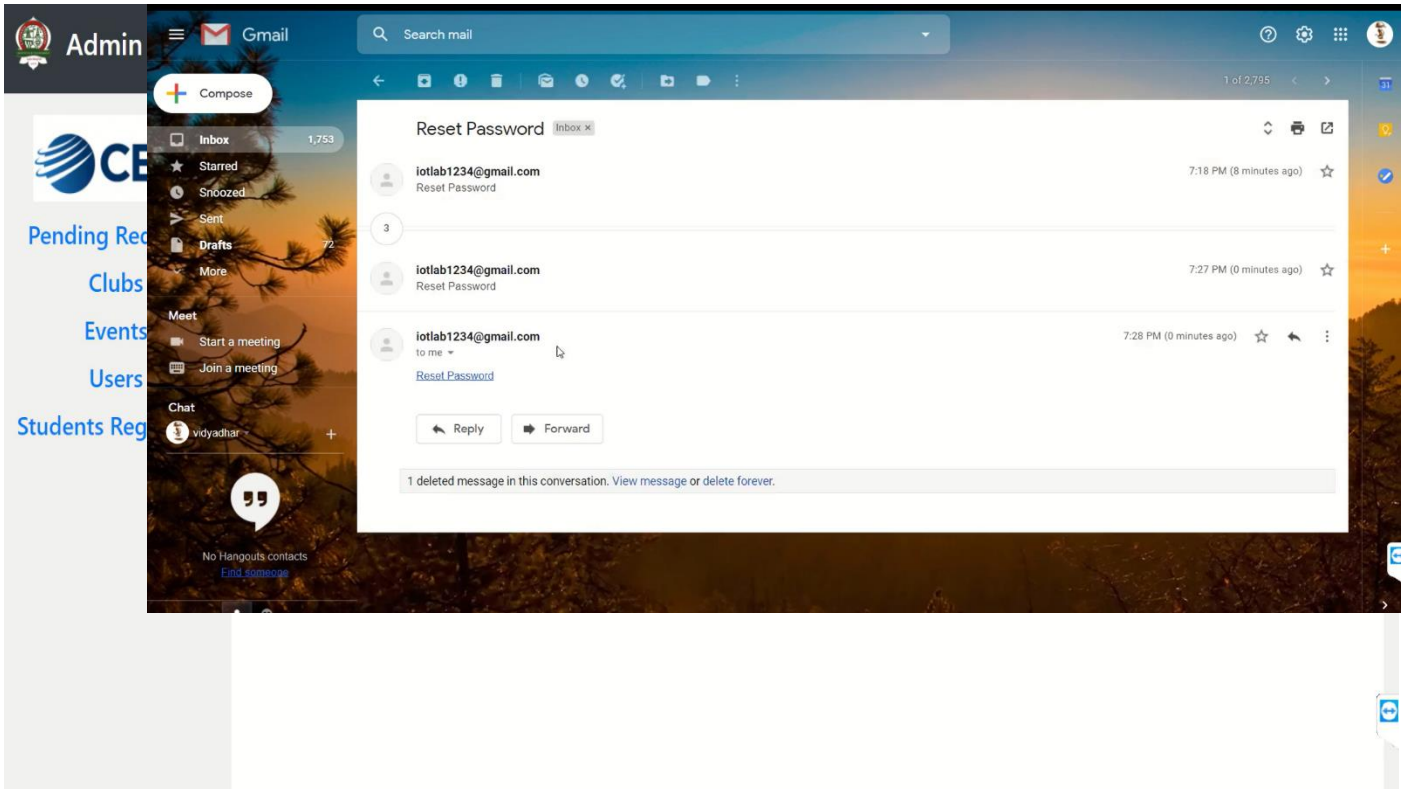
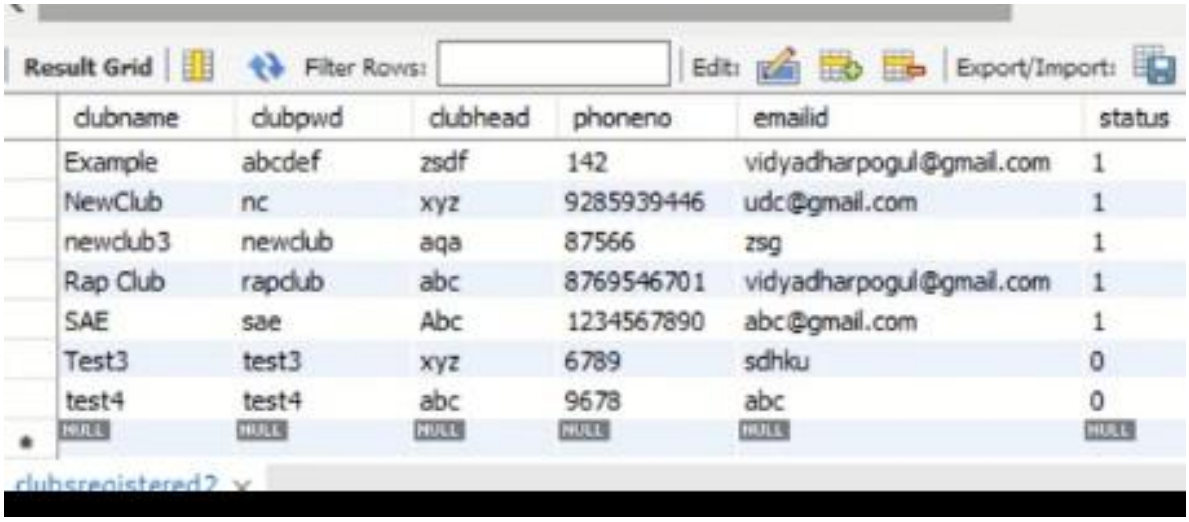

Admin
Pending Rec
Clubs
Events
Users
Students Reg
Gmail
Search mail
Compose
Inbox 1,753
Starred
Snoozed
Sent
Drafts 72
More
Meet
Start a meeting
Join a meeting
Chat
vidyadhar
No Hangouts contacts
Find someone
Reset Password
Inbox ×
1 of 2,795
iotlab1234@gmail.com
Reset Password
7:18 PM (8 minutes ago)
3
iotlab1234@gmail.com
Reset Password
7:27 PM (0 minutes ago)
iotlab1234@gmail.com
to me
7:28 PM (0 minutes ago)
Reset Password
Reply
Forward
1 deleted message in this conversation. View message or delete forever.

Fig – 5.3


club
Home
My profile
logout
Club Name : Rap Club
Club Head : abc
Phone No : 8769546701
Email Id :
vidyadharpogul@gmail.com
Change Password
CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY
1979

Fig – 5.4



Result Grid | Filter Rows: | Edit: | Export/Import:

clubname	clubpwd	clubhead	phoneno	emailid	status
Example	abcdef	zsdf	142	vidyadharpogul@gmail.com	1
NewClub	nc	xyz	9285939446	udc@gmail.com	1
newclub3	newclub	aqa	87566	zsg	1
Rap Club	rapclub	abc	8769546701	vidyadharpogul@gmail.com	1
SAE	sae	Abc	1234567890	abc@gmail.com	1
Test3	test3	xyz	6789	sdhku	0
test4	test4	abc	9678	abc	0
NULL	NULL	NULL	NULL	NULL	NULL

clubsregistered2

Fig – 5.5

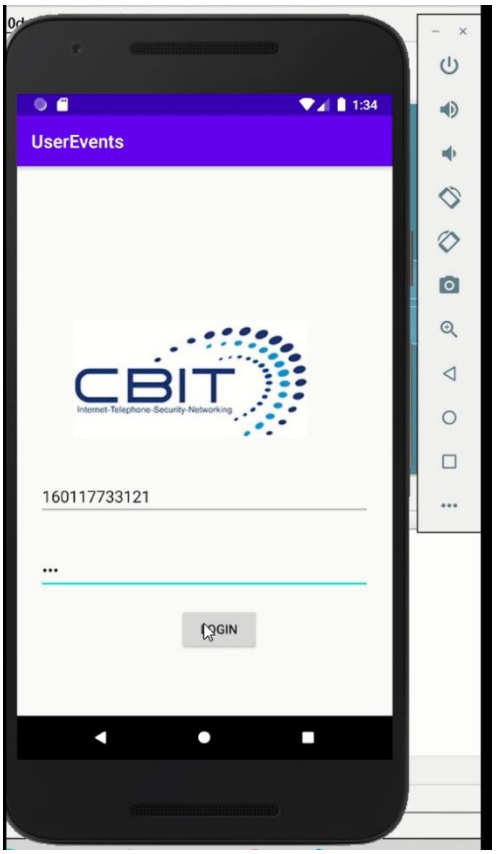


Fig – 5.6

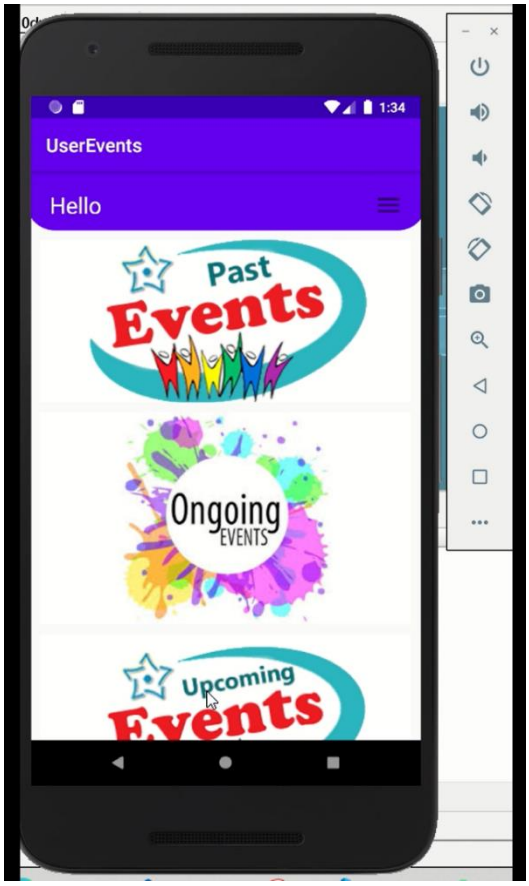

1:34
UserEvents
Hello
Past
Events
Ongoing
EVENTS
Upcoming
Events

Fig – 5.7

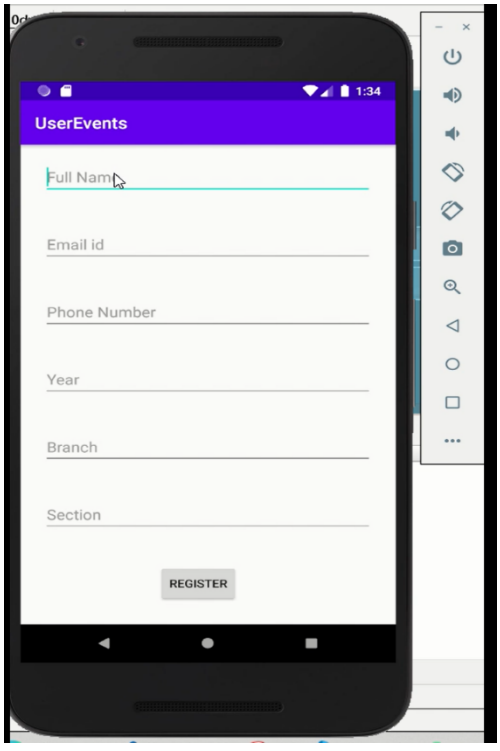

1:34
UserEvents
Full Name
Email id
Phone Number
Year
Branch
Section
REGISTER

Fig – 5.8

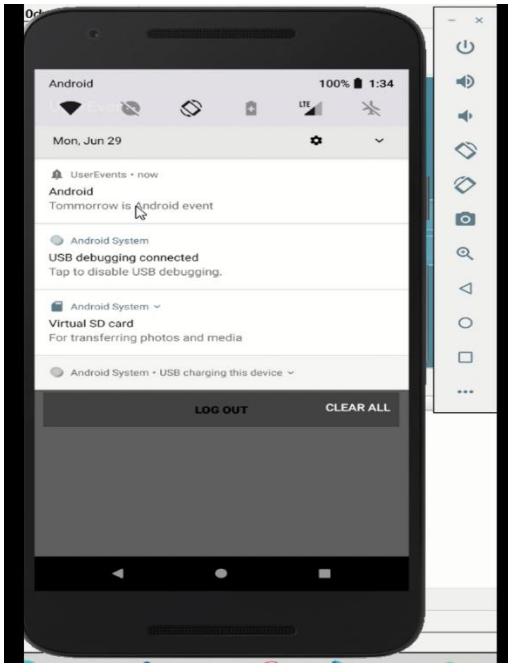


Fig – 5.9

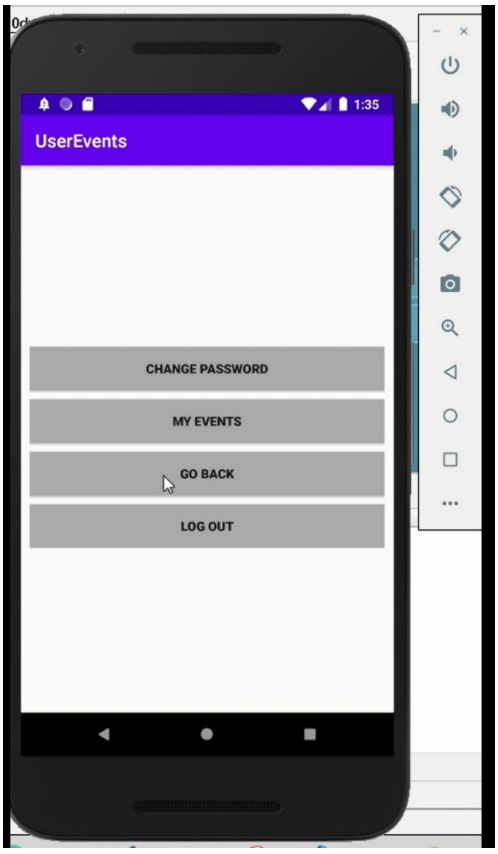


Fig – 5.10

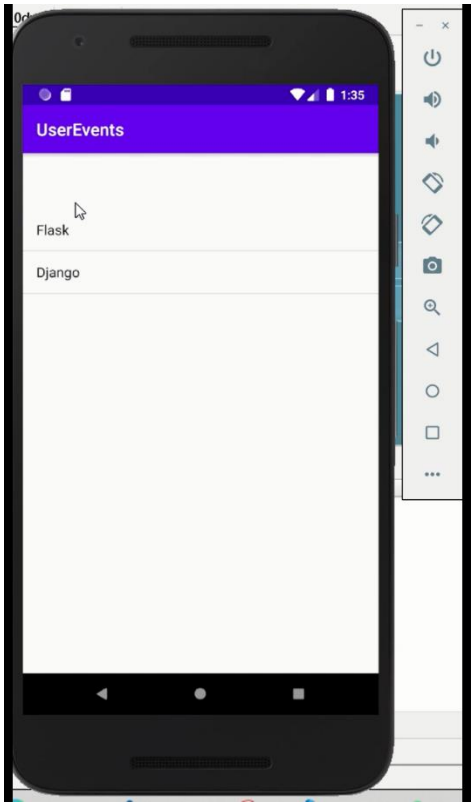


Fig-6.11

6. CONCLUSION AND FUTURE WORK

6.1 Conclusion

Therefore, what we can conclude is that this sort of provision is necessary because there is an emerging need to learn new things. Clubs can easily conduct any event without enough publicity. Users can know about the ongoing and upcoming events being organized. So, no student might miss the opportunity of learning something new.

6.1.1 Limitations

Image cannot be added to an even by club head currently.
Certification and attendance of events is not handled by our application.

6.2 Future Work

In the future we can expect much advancement in this app as right now we are only restricted to the organization and enrolment of the events. But we don’t have a provision to know about the status of the student, whether a particular student attended the event or not .If we could provide this feature in future it might become very for the clubs to validate certification criteria.

7. REFERENCES

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iii. [https://flask.palletsprojects.com/en/1.1.x/]
iv. [http://bbb1.cbit.org.in/b/sai-wc6-ua2]
v. [https://getbootstrap.com/]