

# SHRUTHI



**Department of CSE/IT and Engineering,  
Chaitanya Bharathi Institute of Technology  
(Autonomous),  
(Affiliated to Osmania University, Hyderabad)  
Hyderabad, TELANGANA (INDIA) – 500 075  
Month-2020**

**Submitted to:**

# CERTIFICATE

This is to certify that the project titled “ **SHRUTHI**” is the bonafide work carried out by the following students of CSE/IT departments of Chaitanya Bharathi Institute of Technology, Hyderabad, affiliated to Osmania University, Hyderabad, Telangana(India) during the academic year 2019-2020.

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<Name & Designation>

**Place:**  
**Date:**

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## **ACKNOWLEDGEMENT**

The success and the final outcome of this project required a lot of guidance and assistance from many people and sources and we are extremely fortunate to have got this all along the completion of the project.

We would like to express our special thanks of gratitude to our COSC Internship Drive members CBIT, who gave us the opportunity to fulfill this project. They gave us the moral support and had been very kind and patient while suggesting the outlines of this project and in meeting the deadline. We thank for her overall support.

We would also like to express our special thanks of gratitude to our mentor Mr. Shreeyesh Reddy for guiding us

At last, we would like to thank our families and friends who helped us in gathering different information, collecting data and guiding us from time to time in making this project well above simplicity and into something concrete, despite their busy schedules.

## DECLARATION

We hereby declare that the project entitled “**SHRUTHI**” submitted by the following students of departments CSE/IT to the COSC internship Drive Projects is our original work and the project has not formed the basis for the award of any other degree, diploma, fellowship or any other similar titles.

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**Name(s) and Signature(s) of the Student**

**Place:**

**Date:**

# ABSTRACT

The era of mobile technology opens the windows to the android app. The websites are vanishing and the mobile phones are emerging. Its time to change from conventional websites to apps.

So our ultimate goal is to create a app for the most largest cultural fest of Chaitanya Bharathi Institute of Technology. Our multipurpose project is considering user as albertian or non-albertian, student or faculties. Where it gives more comfort and a better user interface. Its acts as an overview of the shruthi for registration of events of shruthi.

Where students can know latest updates about collage events. Technologies we used in this android app development are Django for web, Flask for restapi, Netbeans for android development with 3 modules.

Where this app gives more comfort for students to know latest updates from the collage. And it has userfriendly interface. Where this project contain login page, registration page and about the events and location as well which job students easy.

## INTRODUCTION

The era of mobile technology opens the windows to the android app. The websites are vanishing and the mobile phones are emerging. It's time to change from conventional websites to apps.

So our ultimate goal is to create an app for the most largest cultural fest of Chaitanya Bharathi Institute of Technology. Our multipurpose project is considering user as albertian or non-albertian, student or faculties. Where it gives more comfort and a better user interface. It acts as an overview of the shruthi for registration of events of shruthi.

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## WEB DEVELOPMENT

Web development is the building and maintenance of websites; it's the work that happens behind the scenes to make a website look great, work fast and perform well with a seamless user experience. Web developers do this by using a variety of coding languages. The languages they use depends on the types of tasks they are performing and the platforms on which they are working. The field of web development is generally broken down into front-end (the user-facing side) and back-end (the server side)

In the web part the event heads will send the requests to the admins regarding their events. So, the admins will be able to login, view requests and accept or reject the requests, when they accept the request an automatic mail will be sent to the event heads regarding the confirmation of the event. And the users will be able to view, register and login into the events of SHRUTHI.

## **USER REGISTRATION:**

Here we have created a user registration page where the users must fill the required details like name, roll number, branch, year, phone number etc. and they must submit those details. So when they register here their details will u

## **USER LOGIN:**

After the users register to the events , now they must login using their username and password .When they login here they will redirected to the user page where they can see all their registered events and if they enter wrong details i.e either username or password entered is wrong then the page will show a message saying invalid credentials.

## **USER PAGE:**

When the users login using their username and password they will be directed to the user page . Here users can see all their events to which they have registered and they can also see the events categorized branchwise and other filtering categories. We have also made an option for them where they can add events as their favourite or pin the events.

## **ADMIN LOGIN:**

The admin login form has two fields, admin ID and Password. If the admin enters the wrong details the message “invalid credentials” will be displayed. If the correct details are entered, the admin will be redirected to the admin page.

## **ADMIN PAGE:**

In this page the admin can view the requests from the registration heads, verify them and if he accept them an automatic mail will be sent to he registration head regarding the evet confirmation. This page also contains the list of previous year events , event images and other stats for viewing.



## Problem Definition

In our problem statement we have have 3 modules they Admin, Event heads and users

- where admin should view request ,verify and accept it .when accepted mail to head regarding reg.conf and it should consists of previous year ,other stats for viewing

- In Event heads register events with the app.Login after receiving mail,add events /modify/delete and also add eventinfo,description,dates,location in text and count should be updated

- In user module registration and login and user should able to view events info categorized branch wise , other filtering categories ,etc.

## Description

The system consist of 3 modules they are user, admin, registration head . The user may be existing user or new use if the user is the new user then he /she must first register by giving basic details if the user already existing then he/she login directly the user after login can view events categorized branch wise other filtering categories where they can see the list of events , updates of events and stats info user can add modify and delete they can even pin/ favorite if they are interested . the admin gets request he/she can accept or reject .The request is been accepted then automatic mail is send to registration head. Registration head is where gets the mail they can register events with app they can only login after receiving the mail and they can see the list of the events where they can update events view the stats info they can add, modify or delete.

# **LITERATURE SURVEY**

## **Introduction**

'Shruthi App' is a mobile application . This application allows the admin event heads a users to get register for the events which are conducted by the students from different branch that are held in cultural fest shruthi of CBIT They can register for various games by login into it. They will have the list of events conducted by the students user can register into any of the event

## **Existing System**

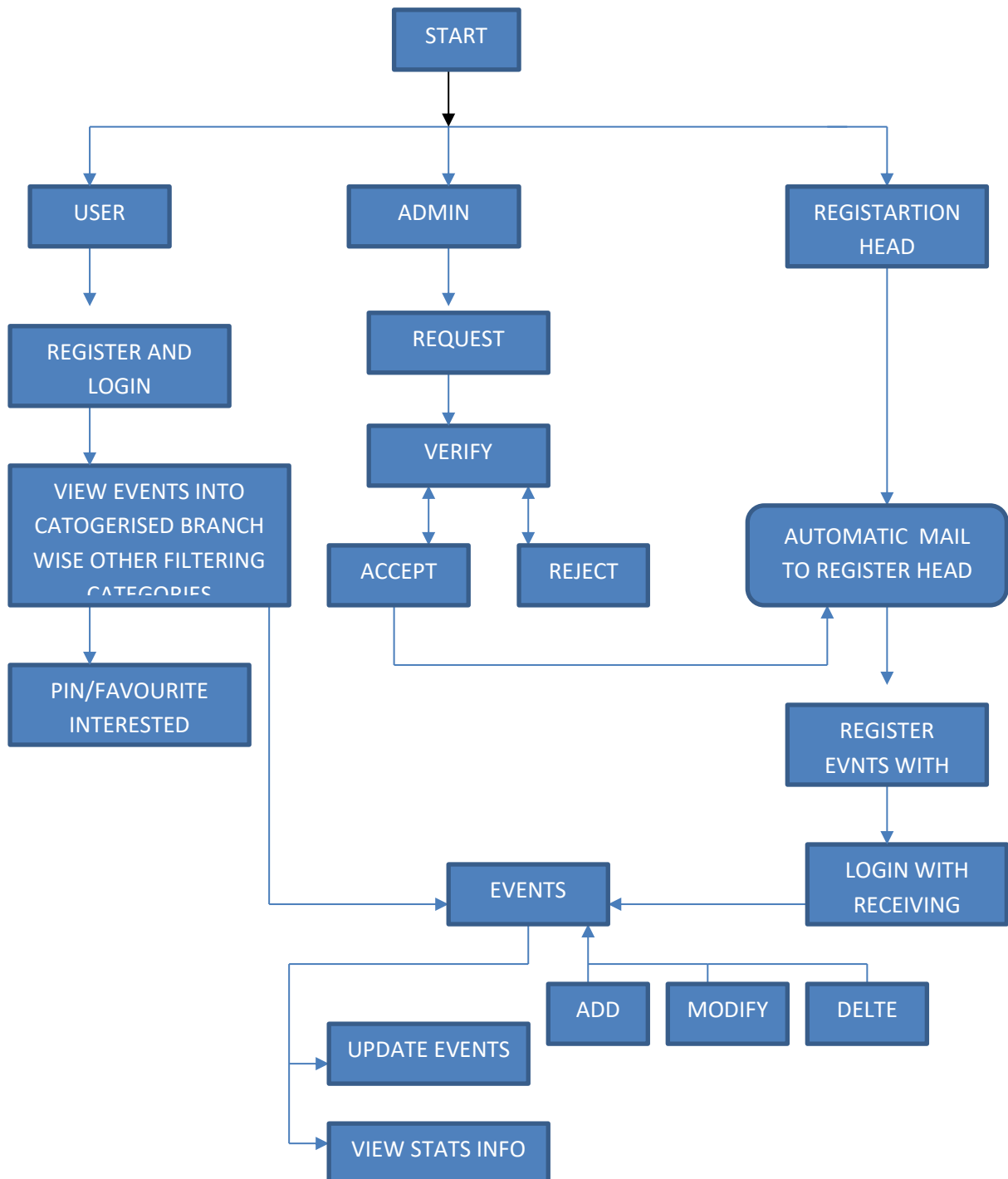
In the existing during the cultural fest of shruthi users used to get register for the events By giving direct payment and used to get the receipt of registration now by the shruthi app they can get register online to any of the event and they can easily see the status about their events which is easy for them

## **Proposed System**

In the proposed system if the user faces any problem during the registration or if they have any doubts regarding the process they can go to the help us option where if they mentioned there problem they can get the solution for it

## DESIGN OF THE PROPOSED SYSTEM

### Block Diagram



## Module Description

We have three modules

1.admin

2.User

3.event head

### **Admin:**

He/she is responsible for updating the details of registration head and users

### **User:**

If the user may existing they can login if the user is new they should register by filling the form giving basic details . after login the user can see the events catogerized branch wise categories where they can see the list of events update of events and stats info

### **Event head :**

Event head is where gets the mail after receiving the mail they can login and they can see list of events

## Theoretical Foundation

SOLID principles are the theoretical foundation needed to built a mobile application. Knowing them and knowing how to apply them , whether through the clean architecture Or any other architecture, is the essential if we want to ensure high chances of success during the development phase of mobile application . The effect of there application is a decoupled code which has several advantages .

# Software Quality Attributes

## **Reliability:**

The application will meet all of the functional requirements without any unexpected behavior. At no time should the gauge display incorrect or outdated information without alerting the user to potential errors.

## **Availability:**

The application will be available at all times on the users android device ,as long as the device is in proper working order. The functionality of the application will depend on any external services such as internet access that are required. If those services are unavailable, the user should be alerted.

## **Security:**

The software should never disclose any personal information of any users. And should collect no personal information from its own users.

## **Maintainability:**

The application can maintained easily.

## **Portability:**

This software will be designed to run on any android operating system version 4.0 or higher.The software will be forward compatible for all currently released android operating system versions (upto to 4.2).

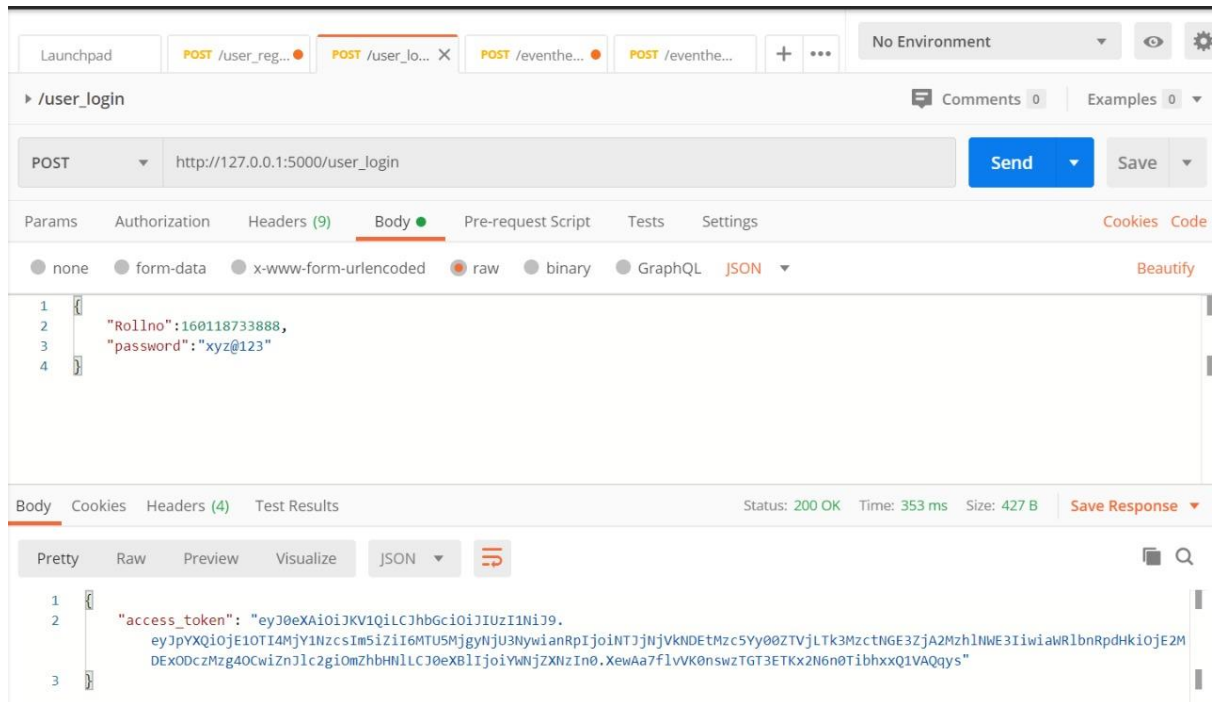
# IMPLEMENTATION DETAILS:

## API USED:

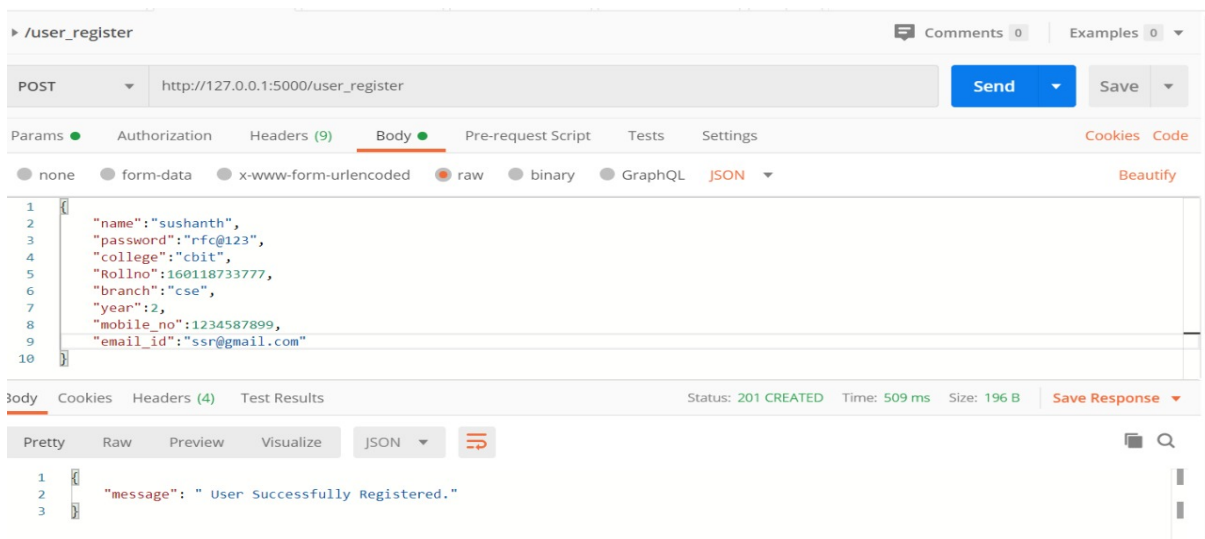
- **API Name:** User registration  
**URL:** [https://shruthiapi.herokuapp.com/user\\_register](https://shruthiapi.herokuapp.com/user_register)  
**HttpMethod:** POST  
**Content-type:** application/json
- **API Name:** Event head registration  
**URL:** [https://shruthiapi.herokuapp.com/eventhead\\_reg](https://shruthiapi.herokuapp.com/eventhead_reg)  
**HttpMethod:** POST  
**Content-type:** application/json
- **API Name:** User login  
**URL:** [https://shruthiapi.herokuapp.com/user\\_login](https://shruthiapi.herokuapp.com/user_login)  
**HttpMethod:** POST  
**Content-type:** application/json
- **API Name:** Event head login  
**URL:** [https://shruthiapi.herokuapp.com/eventhead\\_login](https://shruthiapi.herokuapp.com/eventhead_login)  
**HttpMethod:** POST  
**Content-type:** application/json
- **API Name:** events  
**URL:** <https://shruthiapi.herokuapp.com/events>  
**HttpMethod:** GET  
**Content-type:** application/json
- **API Name:** user details  
**URL:** [https://shruthiapi.herokuapp.com/user\\_details](https://shruthiapi.herokuapp.com/user_details)  
**HttpMethod:** GET  
**Content-type:** application/json
- **API Name:** events registered by the user  
**URL:** [https://shruthiapi.herokuapp.com/user\\_event](https://shruthiapi.herokuapp.com/user_event)  
**HttpMethod:** GET  
**Content-type:** application/json
- **API Name:** user event registrations  
**URL:** [https://shruthiapi.herokuapp.com/user\\_evtreg](https://shruthiapi.herokuapp.com/user_evtreg)  
**HttpMethod:** POST  
**Content-type:** application/json
- **API Name:** remove EVENT HEAD for admin  
**URL:** [https://shruthiapi.herokuapp.com/head\\_remove](https://shruthiapi.herokuapp.com/head_remove)
- **API Name:** remove requests for admin  
**URL:** [https://shruthiapi.herokuapp.com/req\\_remove](https://shruthiapi.herokuapp.com/req_remove)
- **API Name:** Event head adding his request  
**URL:** [https://shruthiapi.herokuapp.com/head\\_request](https://shruthiapi.herokuapp.com/head_request)
- **API Name:** user adding events into fav list  
**URL:** [https://shruthiapi.herokuapp.com/user\\_addfav](https://shruthiapi.herokuapp.com/user_addfav)
- **API Name:** admin confirming eventhead and event  
**URL:** <https://shruthiapi.herokuapp.com/confirmation>

## Postman Testing:

### User Login :



### User Registration:



## User Fav List:

REST client interface showing a GET request to `http://127.0.0.1:5000/user_fav`. The request body is a JSON object: `{ "user_id": 2002 }`. The response is a JSON object: `{ "event_id": 101, "event_title": "PUZZLE MANIA" }`. The status is 200 OK.

## User Registering for an Event:

REST client interface showing a POST request to `http://127.0.0.1:5000/user_evtreg`. The request body is a JSON object: `{ "user_id": 2028, "event_id": 115 }`. The response is a JSON object: `{ "message": "User Successfully Registered to event." }`. The status is 201 CREATED.



## Event Head sending request to admin:

POST http://127.0.0.1:5000/head\_request Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "event_head_name": "Alexander",
3   "event_head_year": 3,
4   "event_desc": "This event is contain stuff related to cipher games",
5   "email_id": "ALEX@gmail.com",
6   "event_title": "CIPHER KING",
7   "Rollno": 160117733961
8 }
9
10
11
```

Body Cookies Headers (4) Test Results Status: 201 CREATED Time: 547 ms Size: 192 B Save

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": " Request send successfully"
3 }
```

## Admin viewing Requests:

GET http://127.0.0.1:5000/requests Send

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "req_id": 30,
4     "event_head_name": "anuhya",
5     "Rollno": 160117733010,
6     "event_head_year": 3,
7     "event_title": "Event_sample",
8     "event_desc": "DESCRIPTION",
9     "email_id": "anuhya1916@gmail.com"
10  },
11  {
12    "req_id": 31,
13    "event_head_name": "Alexander",
14    "Rollno": 160117733961,
15    "event_head_year": 3,
16    "event_title": "CIPHER KING",
17    "event_desc": "This event is contain stuff related to cipher games",
18    "email_id": "ALEX@gmail.com"
19  }
20 }
```

## Admin Confirming the Request:

The screenshot shows a REST client interface. At the top, a POST request is configured to `http://127.0.0.1:5000/confirmation`. The request body is in JSON format, containing `{ "req_id": 15 }`. Below the request, the response is displayed. The response status is `201 CREATED`, with a time of `6.68 s` and a size of `202 B`. The response body is in JSON format, containing `{ "message": "Succesfully sent to event head mail!" }`.

```
POST http://127.0.0.1:5000/confirmation
```

```
{
  "req_id": 15
}
```

Status: 201 CREATED Time: 6.68 s Size: 202 B

```
{
  "message": "Succesfully sent to event head mail!"
}
```

## Mail received by Event Head:

The screenshot shows an email interface. The email is from `shruthicbit11@gmail.com` with the subject `(no subject)`. The email body contains the message: `Your request has been confirmed by admin and the event is successfully added in shruthi events`. The email was received at `8:33 PM (1 hour ago)`. There are buttons for `Reply` and `Forward`.

(no subject) Inbox x

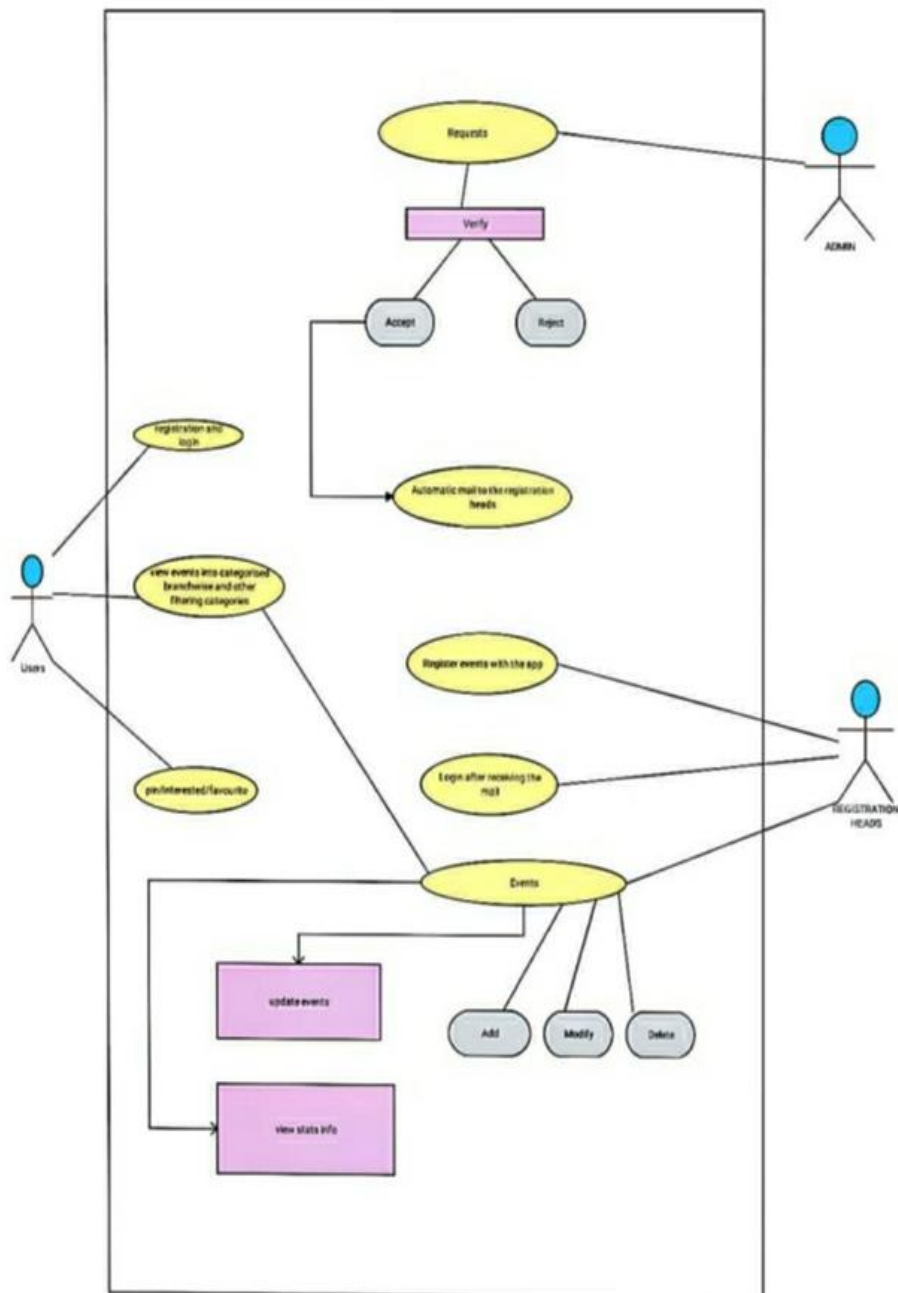
shruthicbit11@gmail.com

8:33 PM (1 hour ago)

Your request has been confirmed by admin and the event is successfully added in shruthi events

Reply Forward

## UML DIAGRAM:



# WEB PAGES:

## Admin page :

127.0.0.1:8000/Myadmin/admin-login

ADMIN PAGE

Event Head	Title	DESCRIPTION	STATUS	
stockholme		This event contains Singing Competition	Accept	Reject
Noah		This event is about guessing characters	Accept	Reject
Ulrich		This event is contain cross word puzzles	Accept	Reject


Requests

Cultural Events

Get to participate in cultural events.

Innovative Games

Ensuring best games.



Amazing prizes

Get gifted.

## Admin Login page:

127.0.0.1:8000/Myadmin/

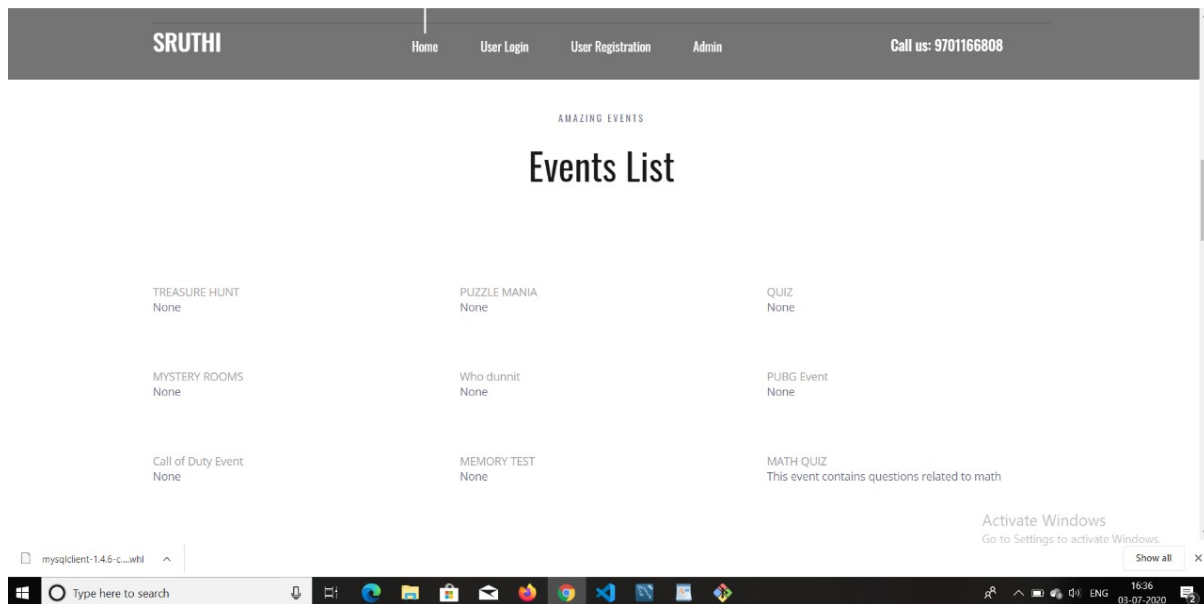
### Login

ADMIN ID

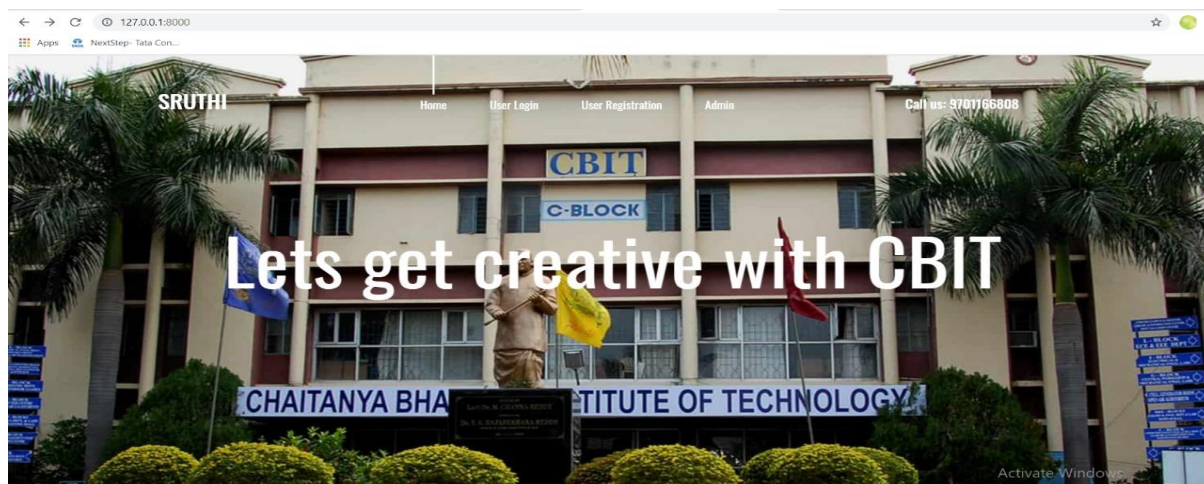
Password

☒ Remember me

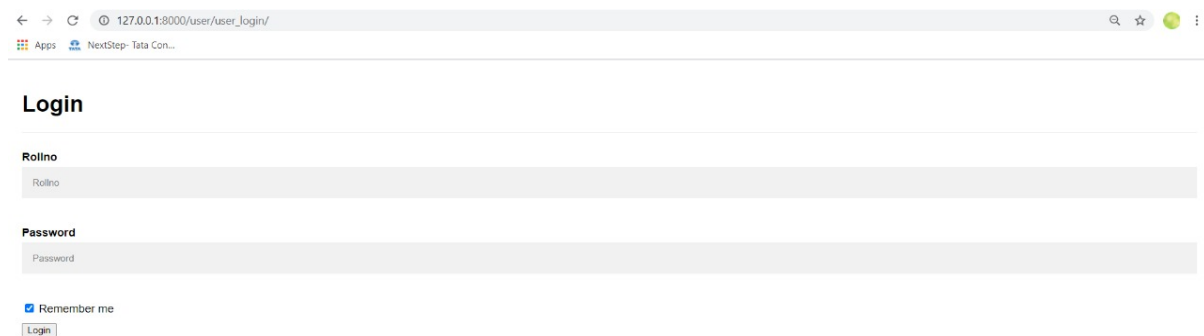
## Events List page:



## Home page:



## User login page:



## Registration :

← → ↻ 127.0.0.1:8000/user/user\_registration/ 🔍 ☆ 🌱 ⋮

Apps NextStep- Tata Con...

### Register

Please fill in this form to create an account.

**Name :**  
Enter Your Name

**Roll No :**  
Enter Your Rollno

**Branch :**  
Enter Your Branch Name

**Year :**  
Enter Your year

**College :**  
Enter Your College Name

**Mobile Number :**  
Enter Your Mobile number

**E Mail :**  
Enter Your Email id

**Password :**  
Enter Your Password

**Gender :**  
☐ male ☐ female

Activate Windows  
Go to Settings to activate Windows.

Register

← → ↻ 127.0.0.1:8000/user/user\_login/api\_call 🔍 ☆ 🌱 ⋮

Apps NextStep- Tata Con...

SRUTHI 2020 HOME **USER LOGIN** USER REGISTRATION ADMIN

SRUTHI 2020

Profile

Events

Event Registration

Registered events

Favourite Events

Welcome Anu-134143

**Thank you for registering to the Sruthi 2020**

Congratulations, you have been successfully registered to SRUTHI 2020

Activate Windows  
Go to Settings to activate Windows.

## Event Registration :

← → ↻ 127.0.0.1:8000/user/user\_login/eventreg/1/ 🔍 ☆ 🟢 ⋮

Apps NextStep- Tata Con...

### EVENT REGISTRATION

TREASURE HUNT	Register
PUZZLE MANIA	Register
QUIZ	Register
MYSTERY ROOMS	Register
Who dunnit	Register
PUBG Event	Register
Call of Duty Event	Register

Activate Windows  
Go to Settings to activate Windows.

## My events page:

← → ↻ 127.0.0.1:8000/user/user\_login/10/EventReg 🔍 ☆ 🟢 ⋮

Apps NextStep- Tata Con...

### My Events

PUZZLE MANIA
MYSTERY ROOMS
TREASURE HUNT
QUIZ
Who dunnit

## My Favourites events:

← → ↻ 127.0.0.1:8000/user/user\_login/fav/1/ 🔍 ☆ 🟢 ⋮

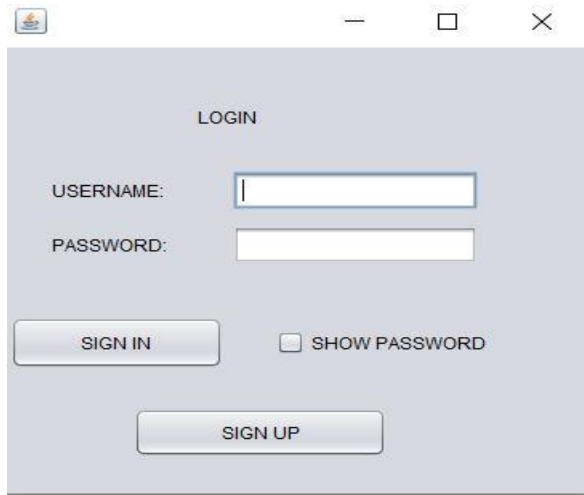
Apps NextStep- Tata Con...

### My Favourites

quiz	x
puzzle mania	x

# Netbeans:

## Login page



A screenshot of a Java Swing window titled "LOGIN". The window has a light gray background and standard window controls (minimize, maximize, close) at the top. It contains two text input fields: "USERNAME:" and "PASSWORD:". Below the password field is a checkbox labeled "SHOW PASSWORD". At the bottom, there are two buttons: "SIGN IN" and "SIGN UP".

LOGIN

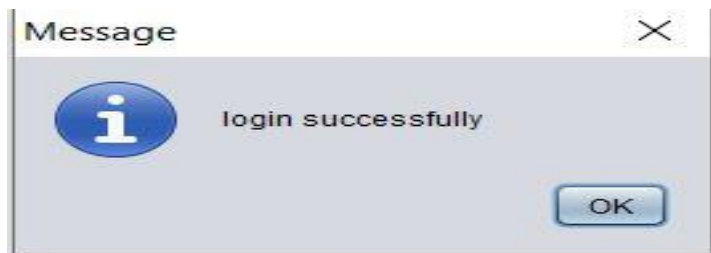
USERNAME:

PASSWORD:

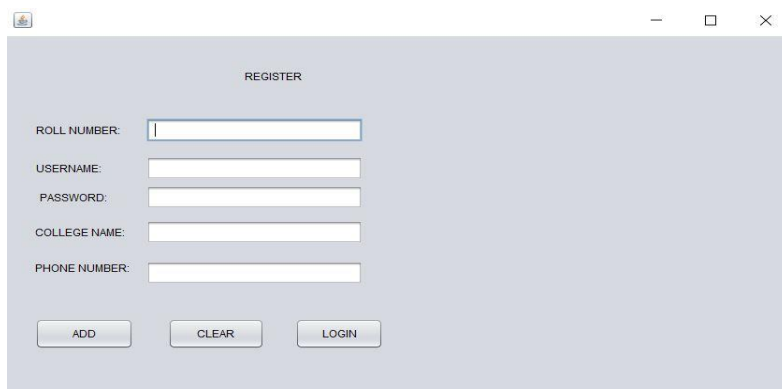
☐ SHOW PASSWORD

SIGN IN

SIGN UP



## Registration page



A screenshot of a Java Swing window titled "REGISTER". The window has a light gray background and standard window controls at the top. It contains five text input fields: "ROLL NUMBER:", "USERNAME:", "PASSWORD:", "COLLEGE NAME:", and "PHONE NUMBER:". At the bottom, there are three buttons: "ADD", "CLEAR", and "LOGIN".

REGISTER

ROLL NUMBER:

USERNAME:

PASSWORD:

COLLEGE NAME:

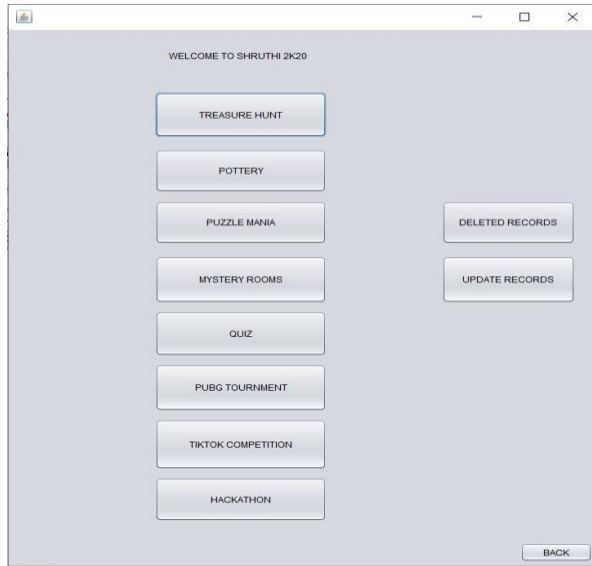
PHONE NUMBER:

ADD CLEAR LOGIN





## Events page



WELCOME TO SHRUTHI 2K20

TREASURE HUNT

POTTERY

PUZZLE MANIA

MYSTERY ROOMS

QUIZ

PUBG TOURNAMENT

TIKTOK COMPETITION

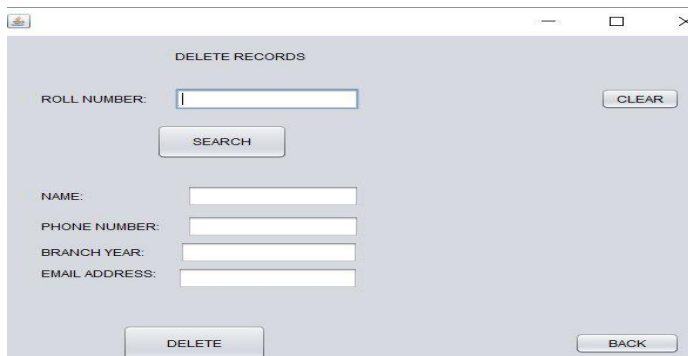
HACKATHON

DELETED RECORDS

UPDATE RECORDS

BACK

## Delete page



DELETE RECORDS

ROLL NUMBER:

NAME:

PHONE NUMBER:

BRANCH YEAR:

EMAIL ADDRESS:

## Update



UPDATE RECORDS

ROLL NUMBER:

NAME:

PHONE NUMBER:

BRANCH YEAR:

EMAIL ADDRESS:

## **CONCLUSION:**

The era of mobile technology opens then windows to the android app. So we have created the app called “SHRUTHI” as the project for our COSC intership drive .This project work made us learn new technologies like django ,android studio etc... This app will be helpful for the students further in registration and updates about the shruthi events which will make they job easy.

## **Future Scope**

Currently the android application works as an offline application which only allows to access data from the application. Future the application will be working as online application which includes the features like locations tracking, notifications etc.....The college management can also utilize this feature for better collage service.

## REFERENCES

- <https://youtu.be/Ob4vSoWud9k>
- <https://youtu.be/Q33KBiDriJY>
- <https://youtu.be/xiEmCw8n-iU>
- [https://github.com/Pushpak741/shruthi\\_api.git](https://github.com/Pushpak741/shruthi_api.git)
- <https://github.com/anuhya1916/cosc-sruthi2020.git>