PROJECT REPORT ON

APP DEVELOPMENT ON AVAILABILITY OF SEMINAR HALLS AND TEACHER TIME TABLE MANAGEMENT

By

TEAM-2

Chaitanya Bharathi Institute of Technology
(Autonomous),
(Affiliated to Osmania University, Hyderabad)
Hyderabad, TELANGANA (INDIA) – 500 075

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CHAITANYABHARATHIINSTITUTEOFTECHNOLOGY
(AUTONOMOUS)
GANDIPET,HYDERABAD-500075
Accredited by NBA&NAAC, Approved by AICTE, Affiliated to Osmania University

CERTIFICATE

This is to certify that this is a bonafide project done by the following students "Team-2" in the COSC Internship during the academic year 2019-2020.

S No	Name of Student	Branch&year	Roll no.
1.	Afrah Minhaj	CSE 1/4	160119733062
2.	Ramineni Indhu	CSE 1/4	160119733069
3.	Preethi Byra	CSE 1/4	160119733138
4.	M Abhishek	CSE 2/4	160118733088
5.	G.Greeshma	CSE 2/4	160118733007
6.	SLS Harshitha	IT 2/4	160118737008
7.	Prakashitha Jaladanki	CSE 3/4	160117733070
8.	Sharath chandra	CSE 3/4	160117733111

DECLARATION

We hereby declare that the project entitled "Availability Of Seminar Halls And Teacher Time Table Management" submitted for the B.E Internship Project 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.

Name(s) and Signature(s) of the Student
Manideep
Afrah
Greeshma
Indhu Ramineni
Harshitha
Prakashitha
Sharath
Abhishek
Preethi Byra

Place: Hyderabad
Date: 30-6-2020

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ABSTRACT

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 develop an app that gives the availability of labs, seminar halls and teacher timetable management for students to know the teacher availability. Our multipurpose project is considering user as albertian or non-albertian, student of faculties. Where, it gives more comfort and better user interface.

In this app a student can check the faculty can faculties current hour, can check availability of labs which is clearly indicated by green(for available) red(not available). And the club members can request for booking seminar halls.

We used VScode, Postman, Heroku for API, HTML CSS, Django for Web development. This app is designed in such a way that it gives more comfort to the user. And it has user friendly interface. It has login page and then it leads us to home page and can request for booking seminar hall.

ACKNOWLEDGEMENT

We would like to express our heartfelt gratitude to our whole team members , for their guidance, constant support and contribution towards the project.

We are grateful to our student mentor **Manideep Laxmishetty**, for his steady support capable instruction and persistent encouragement required for the completion of this project.

We would like to take this opportunity to thank our faculty mentor **Sri. Rajesh Kannan (Assistant Professor)**, as well as the management of the institute, for having designed an excellent learning atmosphere.

6 INTRODUCTION

6.1 Problem Definition including the significance and objective:

There are so many difficulties in finding the lab availability, seminar hall availability along with that faculty presence .

To avoid this kind of difficulties, their is an emergent need of an app which elucidate all this troubles .The forth coming project identifies availabilities with our request and gives required output.

6.2 Outline of results:

Through this project, the user can get their required information regarding his/her request about availabity. The user has to put request to Admin(faculty). Admin view requests based on their accessibility. They in turn discuss in person, arrange meeting and allow their requests. Then user can know their meeting schedule.

6.3 Scope of project:

The project can be used by almost all the faculty members. It needs to be observed that this is a website which helps in the fundamental identification of availability of seminar hall, labs and time table management of faculty.

So, it is basically a freely accessible sort of facility which comes extremely handy in these current tough times.

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 preforming 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)

USERS:
Two user categories:

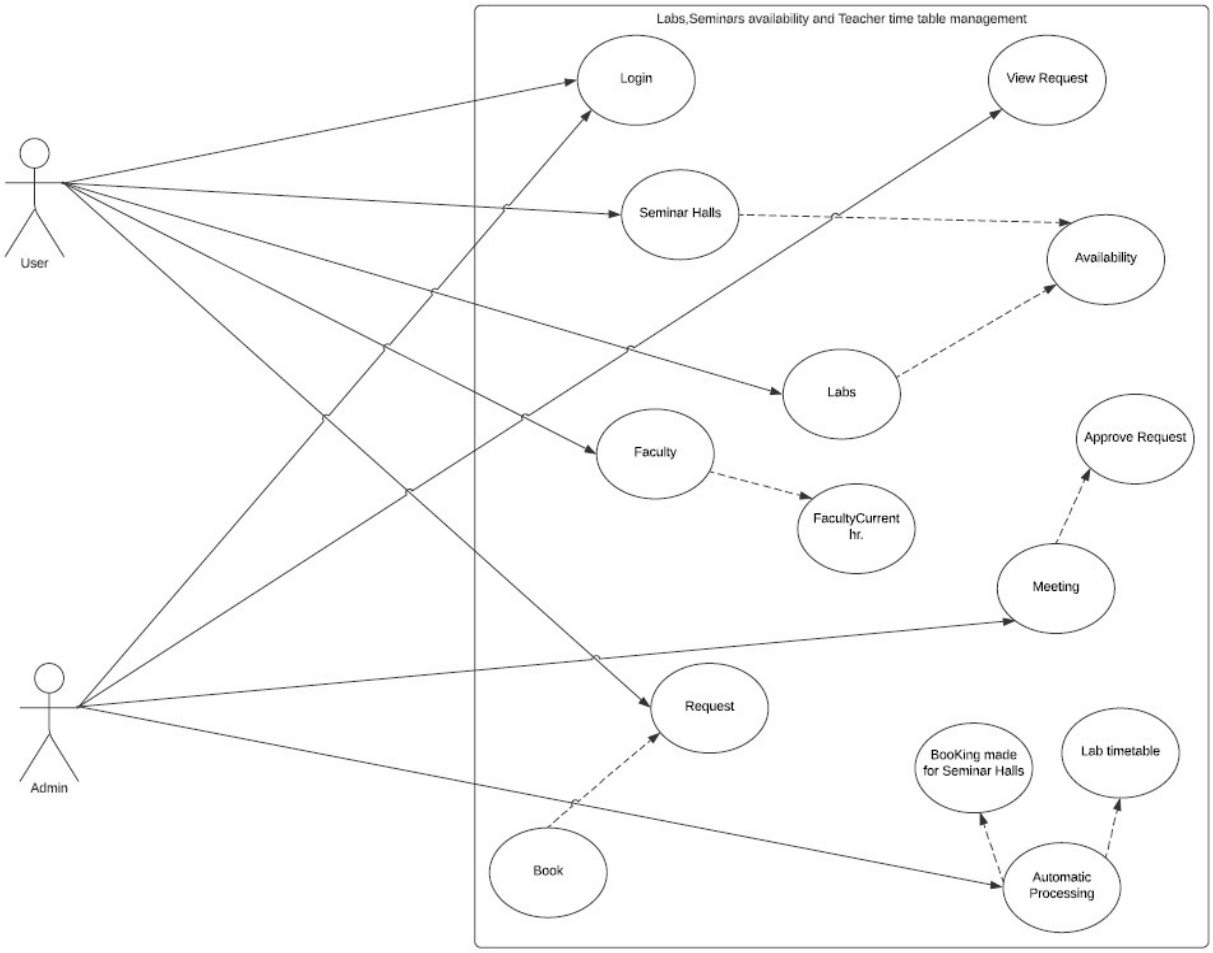
1. General users:
    i. Can check the faculty current hour.
    ii. Can Check availability labs.
    iii. Request for using Seminar Halls.

2. Admin:
    i. View requests based on admin accessibility
    ii. Arrange meet, discuss in person then allow requests.

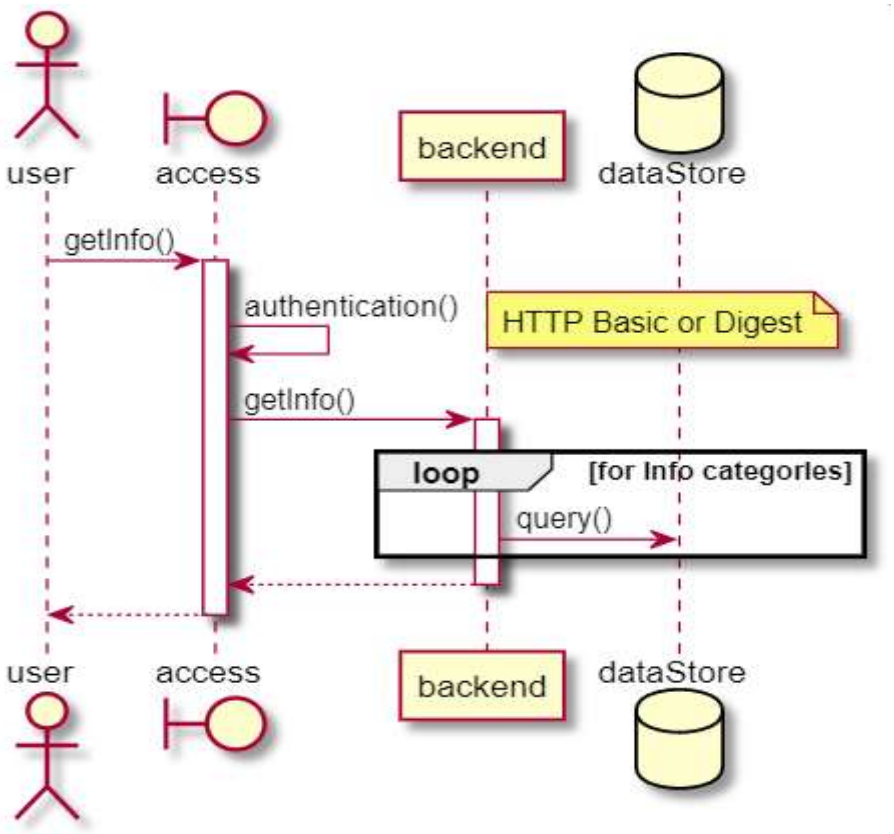
iii. Enter and modify timetable for teachers and labs

7. DESIGN OF THE PROPOSED SYSTEM

7.1 **UML Diagram**



This figure/design depicts the working process of the project.



7.2 **Description of modules:**

MAIN CATOGORIES

There are three main segments in the app:

- LABS
- SEMINAR HALLS
- FACULTY

LABS:

In this segment user gives inputs as lab name and retrieve the details about the availability of the lab. The API connected fetches the details from the web and returns the updates.

SEMINAR HALLS:

In this segment user gives details or inputs such as user id, room code, choosing of the club, seminar hall name and purpose. After giving these details then send request. Once the request is accepted required details are retrieved

FACULTY:

In this segment user gives the Faculty name and can fetch the details like faculty current hour from this section. API connects both the user and admin part so that the details acquired are correct.

2.3 WEB DEVOLOPMENT

Front End

It uses HTML, CSS, Java script.

The Front End mainly helps in taking username and password. It then takes it to home page of availability of halls and labs.

Back End

It uses PHP, Java, C#, Ruby, Python.

It collects the requests from the front end given by the user.

2.4 ANDROID:

Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains' IntelliJ IDEA software and designed specifically for Android development. Itis available for download on Windows, macOS and Linux based operating systems or as a subscription-based service in 2020.

2.5 API

An **application programming interface** (**API**) is a computing interface which defines interactions between multiple software intermediaries. It defines the kinds of calls or requests that can be made, how to make them, the data formats that should be used, the conventions to follow, etc. It can also provide extension mechanisms so that users can extend existing functionality in various ways and to varying degrees.[1] An API can be entirely custom, specific to a component, or it can be designed based on an industry standard to ensure interoperability.

RESULT AND DISCUSSIONS

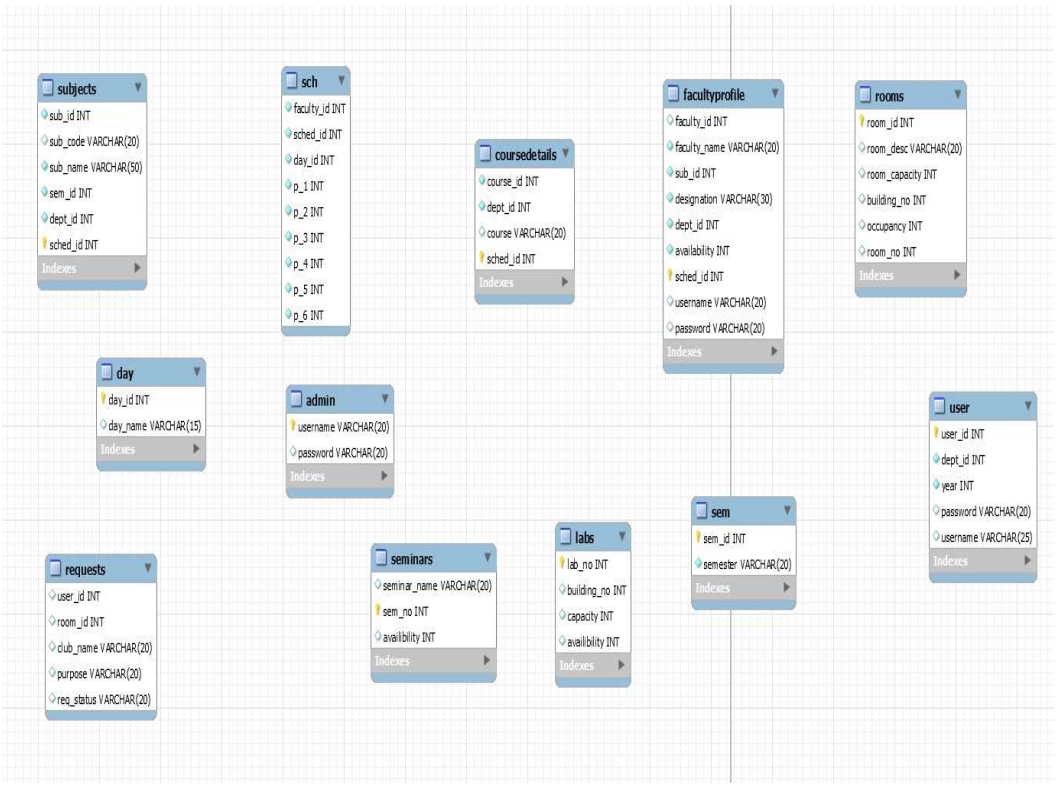


fig.showing the tables created

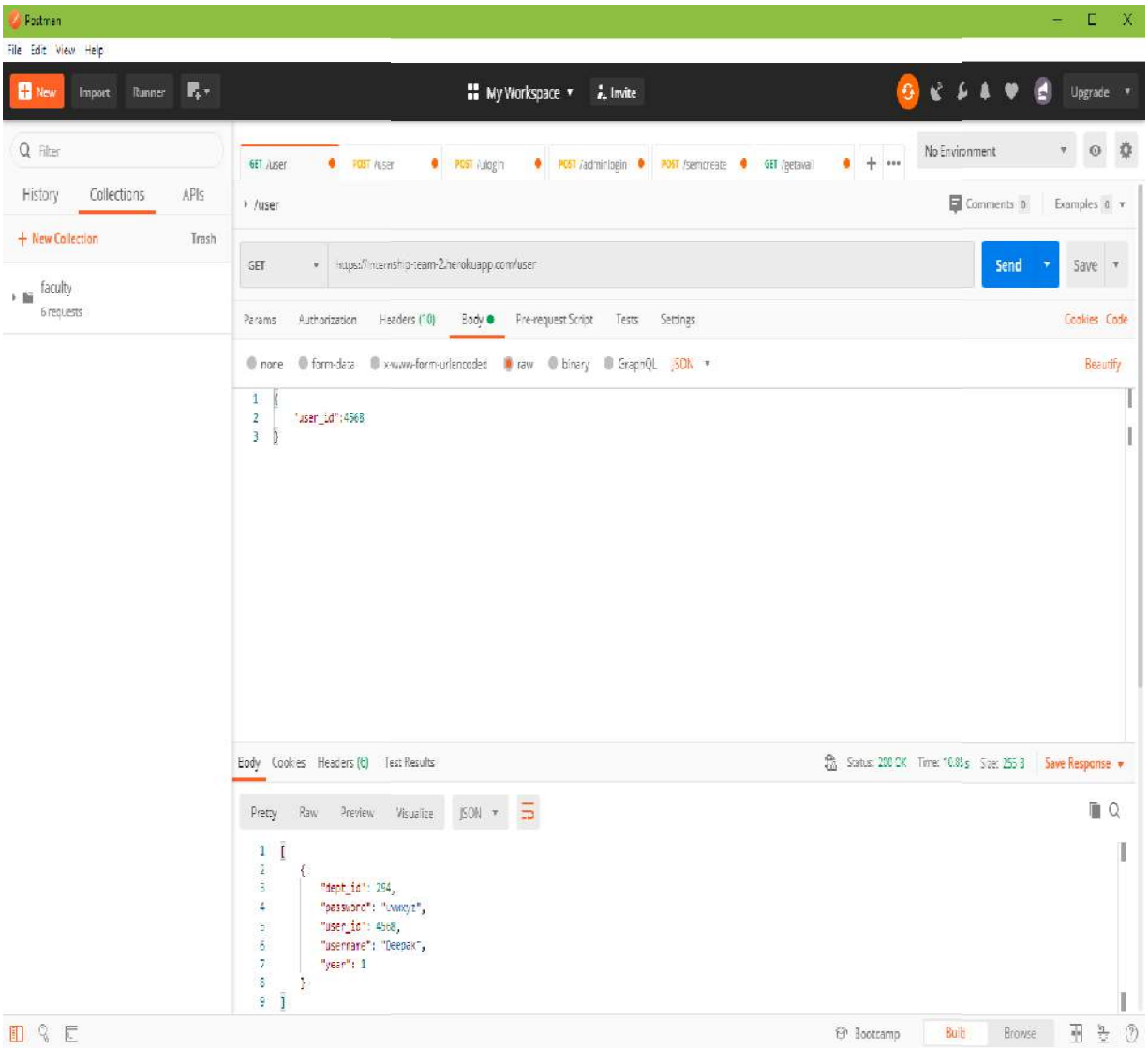
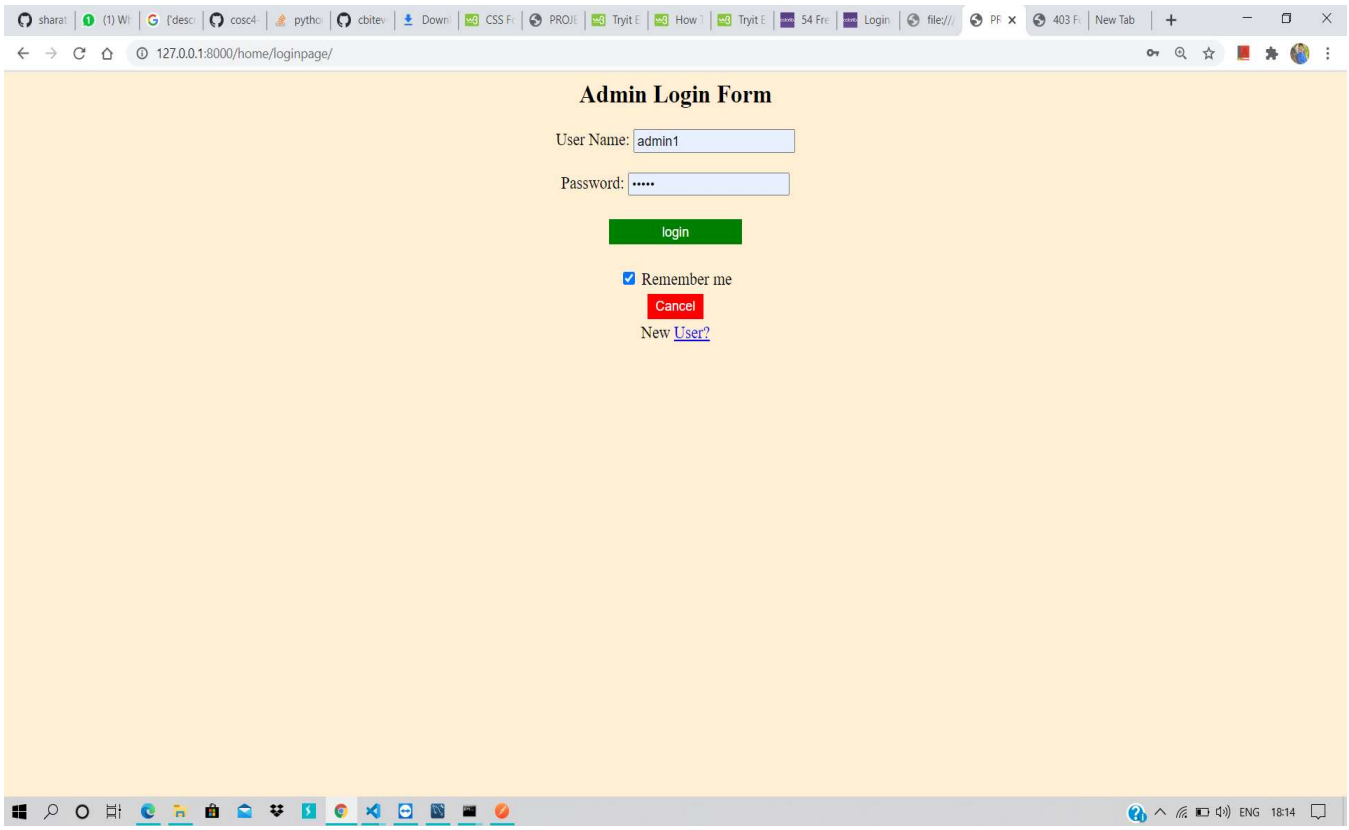
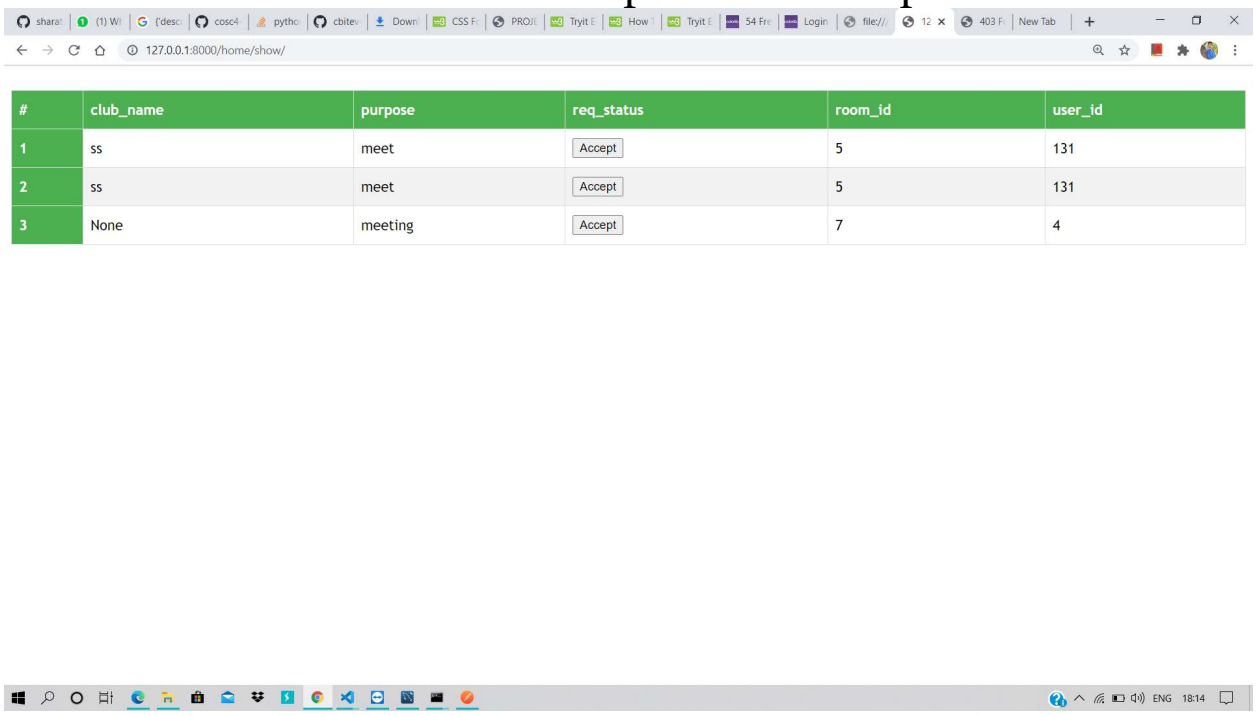


fig. showing the usernames and the passwords



This shows us the home page of our web application where user is asked to enter the username and password as input.



#	club_name	purpose	req_status	room_id	user_id
1	ss	meet	Accept	5	131
2	ss	meet	Accept	5	131
3	None	meeting	Accept	7	4

This page shows the requests by users for the need of halls and labs.

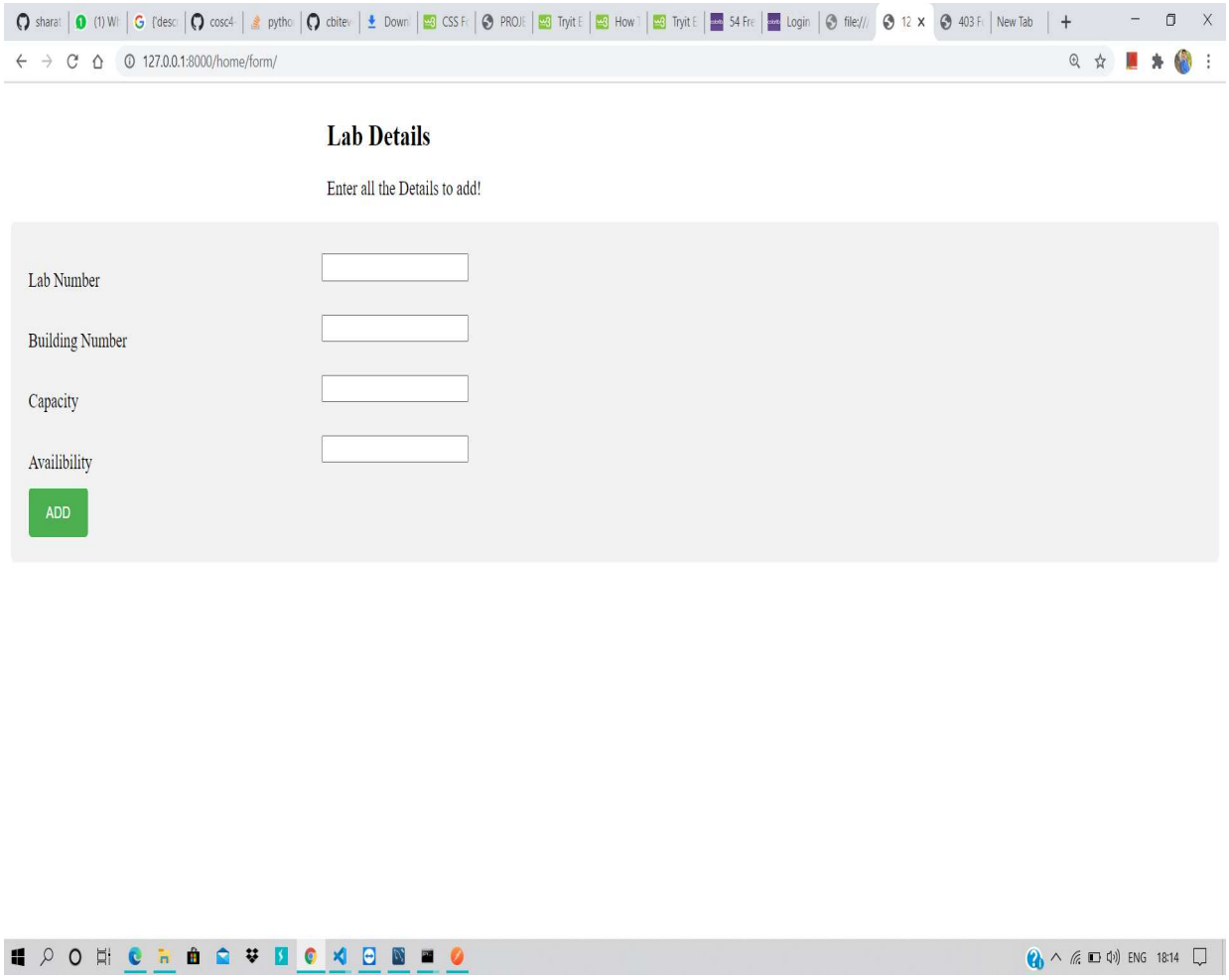


fig. showing the lab details part

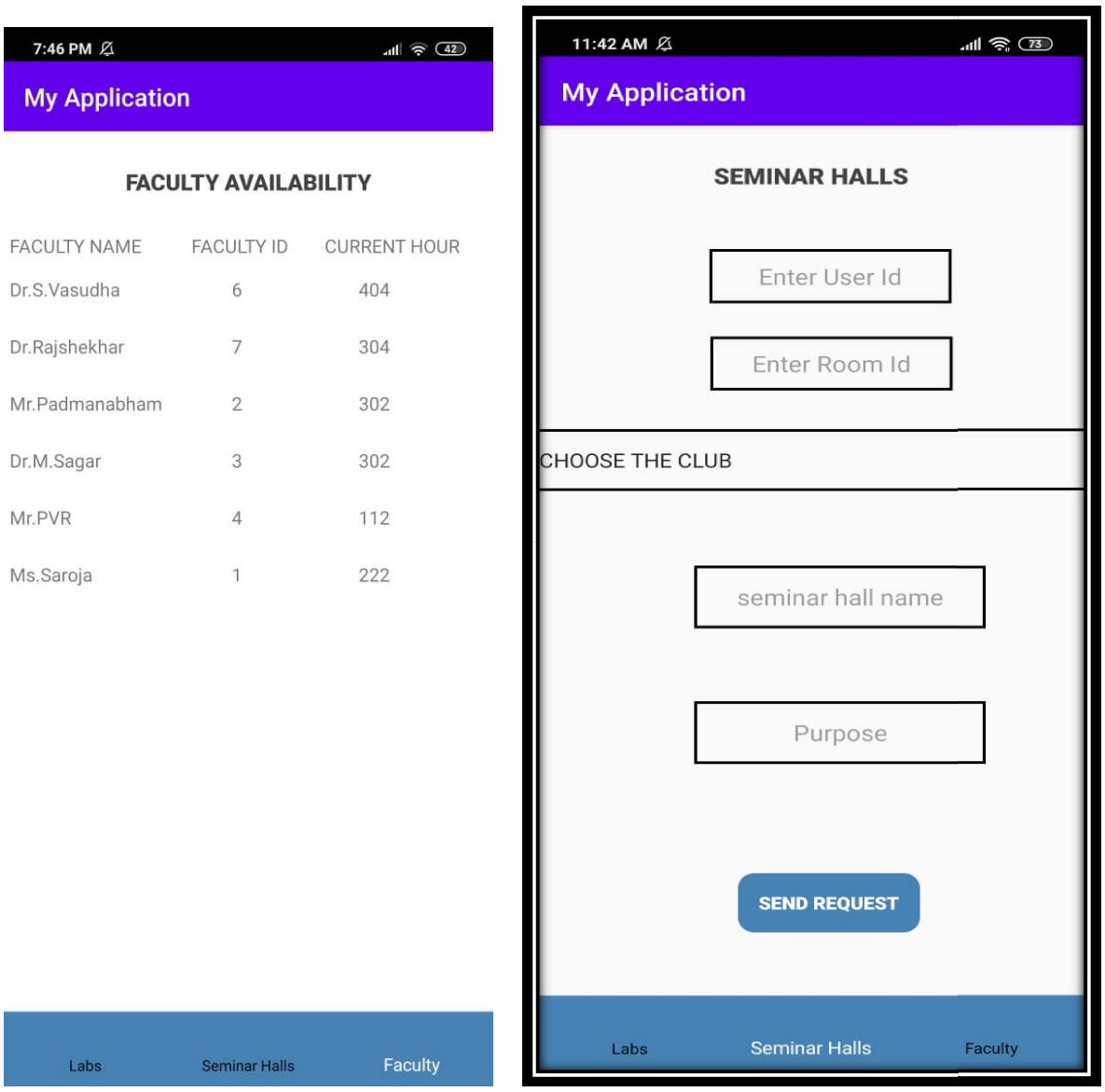


Fig depicting how the android app looks like

CONCLUSION

Therefore, what we can conclude is that this sort of provision is necessary because of emerging problems with the identification of availability halls, labs and faculty availability.

It helps us to resolve the problems faced by user.

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