CAPSTONE PROJECT PRESENTATION ON

iN-CAMPUS ANDROID APPLICATION

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MOTIVATION AND PROBLEM STATEMENT

Problem:

- Current process of marking exit/entry while going out from/Coming to the campus is very inefficient
 - ➤ Time.
 - ➤ Data storing/tracking.
 - > Security issues.

Motivation:

"Providing solution to this problem can help us to manage and get this data(exit entry logs) which further can be used in other useful applications."

INPUTS/OUTPUTS

Inputs

> Effort of the security team of the campus.

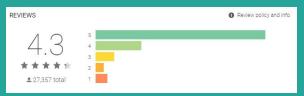
Outputs

- > Campus Security.
- > A useful data which can be utilized.
- ➤ Time saving.
- > Smoothing function of the college.
- ➤ Connecting people more extensively.

PRIOR WORKS

This project idea is not an completely new as its main features derives from an already existing application





"MyGate, the leading apartment management software, assures the security and convenience of gated communities. Through its Security, Community, and Accounting Management modules, the gated community software provides various new features to assist ease everyday tasks and enhance security standards surrounding gated communities."

EFFORTS

- 1) No prior experience in android development => need to spend some extra time to go through online videos, tutorials.
- 2) Working alone => Increased workload, no work division flexibility, need to work daily.

RESULT AND OBSERVATION

★ There is a flaw in our current security system which needs to be rectified.

★ The entry/exit logs data of people living in the campus is very important and can used in some other applications to make our life easier and comfortable.

PLAN FOR FUTURE WORK

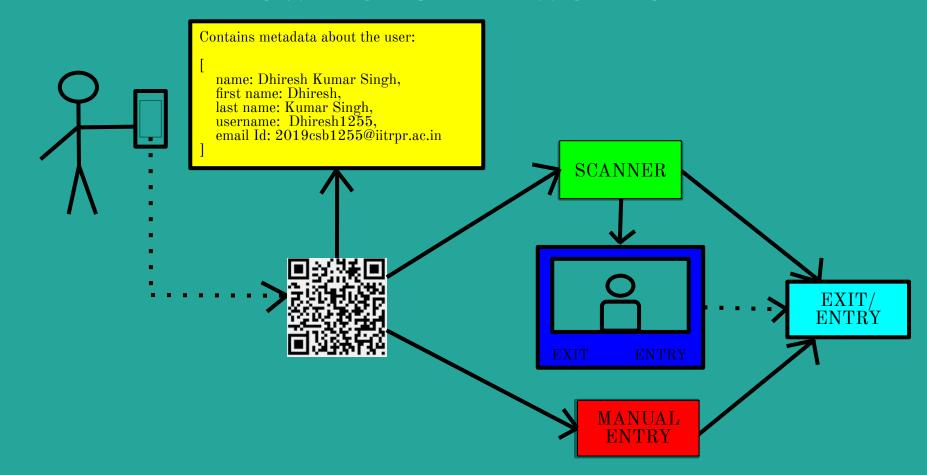
Current work progress

- □ Firebase Authentication of the users
 - □ SignUp
 - □ Login
 - Logout

Future work

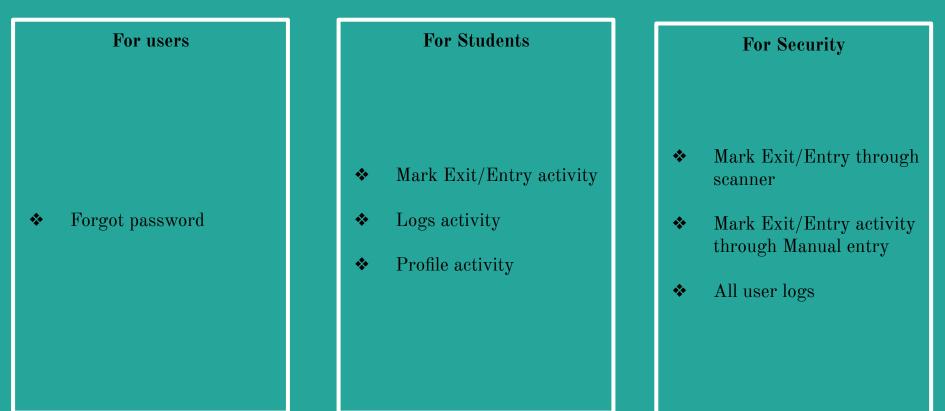
- □ Entry while leaving/coming to campus.(module 1)
- □ All complaints with progress tracking.(module 2)
- ☐ Important news/updates/institute calendar.(module 3)
- Amenity booking.(module 4)
- Fixing appointments with profs/visitors.(module 5)
- Connects people within the campus through this app(self-publishing feature).(module 6)
- □ Lost found.(module 7)
- Share what's in your mind through the confession page. (module 8)
- **a** campus contacts.(module 9)

HOW MODULE-1 WORKS



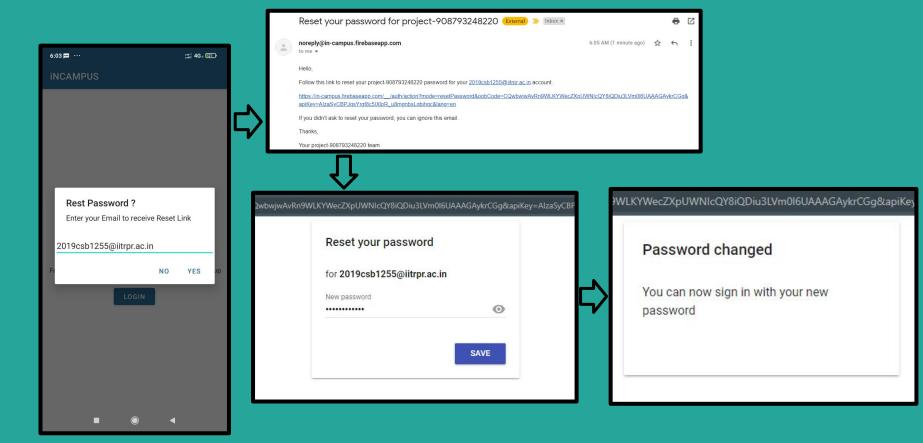
MODULE-1

"Creating and inserting exit/entry logs while user leaves/come to the campus"



FOR USERS

• FORGOT PASSWORD(1.1)



❖ Layout of student activity

The main layout of the student activity contains 4 activity

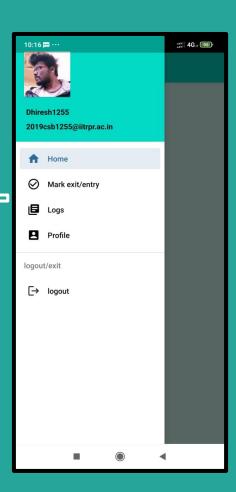
★ Home

★ Mark exit/entry

★ Logs

★ Profile

FOR STUDENTS



FOR STUDENTS

Mark Exit/Entry activity(2.1)

This QR code will contain metadata of the user. For example:

name: Dhiresh Kumar Singh, first name: Dhiresh, last name: Kumar Singh, username: Dhiresh1255,

email Id: 2019csb1255@iitrpr.ac.in



Security guard will just scan this QR code and extract the username from the content of it , and generate/ insert the exit/entry log for the current user

FOR STUDENTS

 \diamond Logs activity(2.2)

Users can view all of their logs,

Which shows

- > Date
- > Time
- > Exit/Entry



Users have to press this refresh button, to get the latest data of their logs from backend API

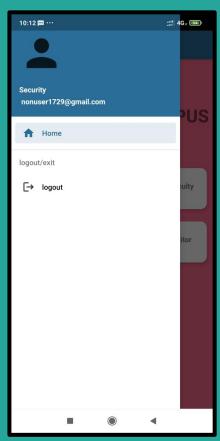
FOR STUDENTS

❖ Profile activity(2.3)

This activity will contain basic, important information about the user



Layout of security activity





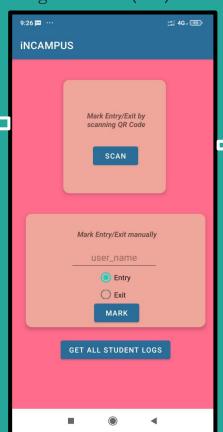
The dashboard of security side contains 4 icons, which ensures marking exit/entry for each type of user.

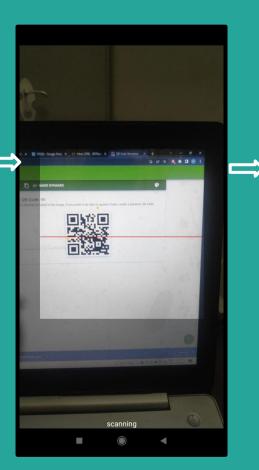
- Student (completed this semester)
 Faculty(to be done)
 Viechiel (to be done)
 Visitors (to be done)

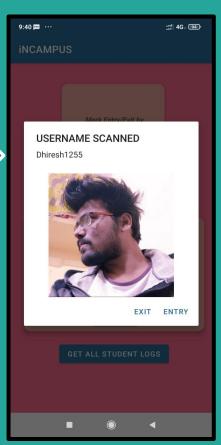
♦ Marking exit/entry through scanner (3.1)

Security guard can scan the QR code of the student using the app.

using the app,
Which will fetch the user
details, and makes an
entry/ exit for the user
whose details are fetched

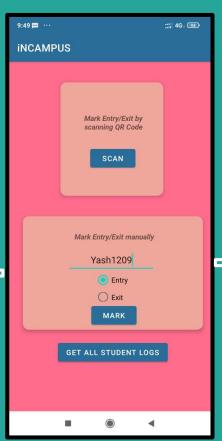


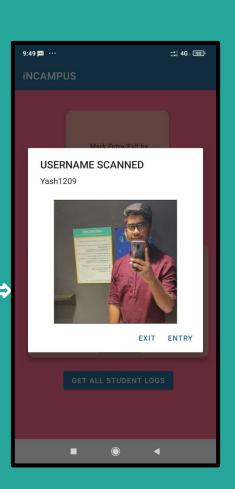




❖ Marking exit/entry through manual entry (3.2)

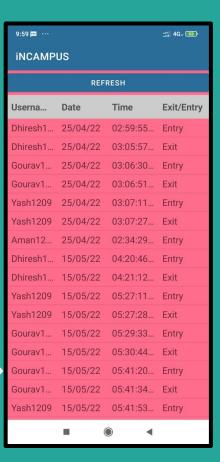
In case user in not having his phone with him, he can just tell his username to the guard and guard will then perform a manual entry for the user writing his name and choosing whether to enter or exit



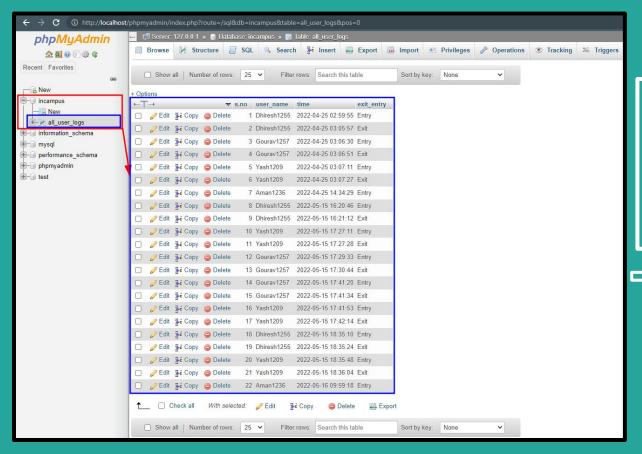


Security guard can view all user logs





DATABASE/ TABLES



Currently the database incampus
Contains only one table
(all_user_logs)
that stores the entry/exit logs of all the students who use the application

APIs

API1: getAllUserLogs
This api will fetch the logs of all students from all_user_logs table

```
m getAllUserLogs.php X
v1 > * getAllUserLogs.php
           require once'../includes/DbOperations.php';
           $response = array();
           if($_SERVER['REQUEST_METHOD'] == 'POST'){
                   $db = new DbOperations();
                   $result = $db->getAllUserLogs();
                   $res = [];
                   while($row = mysqli fetch array($result, MYSQLI NUM)){
                       array push($res, $row[0] " " $row[1] " " $row[2]);
                   $response["error"] = false;
                   $response["logs"] = $res;
       echo json encode($response);
```

API2: getUserLog This api will fetch the logs of a user with a particular username, from the all_user_logs table

```
getUserLog.php X
v1 > 🤫 getUserLog.php
          require_once'../includes/DbOperations.php';
          $response = array();
          if($ SERVER['REQUEST METHOD'] == 'POST'){
              if(isset($ POST['user_name'])){
                  $db = new DbOperations();
                  $result = $db->getUserLogs($ POST['user name']);
                  $res = [];
                  while($row = mysqli fetch array($result, MYSQLI NUM)){
                       array push($res, $row[0] " " $row[1]);
                  $response["error"] = false;
                  $response["logs"] = $res;
                  $response["erro"] = true;
                  $response["message"] = "Required fileds are missing";
      echo json encode($response);
```

API3: insertLog

This api will insert the log for a student/user for every exit/entry which is registered by this app

```
v1 > m insertLog.php
           require_once'../includes/DbOperations.php';
           $response = array();
           if($ SERVER['REQUEST METHOD'] == 'POST'){
                   isset($ POST['username']) and
                   isset($ POST['time']) and
                   isset($_POST['exit_entry'])
                  $db = new DbOperations():
                  if($db->insert log(
                      $_POST['username'],
                      $ POST['time'],
                      $_POST['exit_entry']
                      $response['error'] = false;
                      $response['message'] = "Log inserted successfully";
                      $response['error'] = true;
                      $response['message'] = "Some error occured please try again";
                  $response['error'] = true;
                  $response['message'] = "Requierd fields are missing";
              $response['error'] = true;
              $response['message'] = "Invalid Request";
           echo json_encode($response);
```

FUTURE PLANS

From here onwards, Aditya patel (2019CSB1065) will be taking the lead of the project.

LINK TO THE REPOSITORY

INCAMPUS-github-repository-link

THANK YOU