Classroom Management System

DBMS LAB

205119019

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Synopsis of Project

Abstract

This is a class management system that can be used by education institutes to maintain the records of Attendance and Marks obtained in various Subjects. Keeping track of attendance and calculating it is difficult as to see whose attendance greater and a bar and pass and fail.

Objective

1. Add faculty to a branch and subject to them
2. Add students to various branches offered
3. Faculty can maintain the attendance and marks to subject allotted to them

User View

1. Admin - To add faculty and student
2. Faculty - To add marks and attendance for their subject
3. Student - View the attendance and marks

Software Requirements and Hardware Requirements

System Requirements :

1. Apache server
2. PHP
3. MySQL
4. Windows/Linux/MacOS

Hardware Requirements :

1. Intel pentium
2. 4gb ram (8gb recommended)
3. 20 gb free space(works with 5 gb also)
4. Network for internet

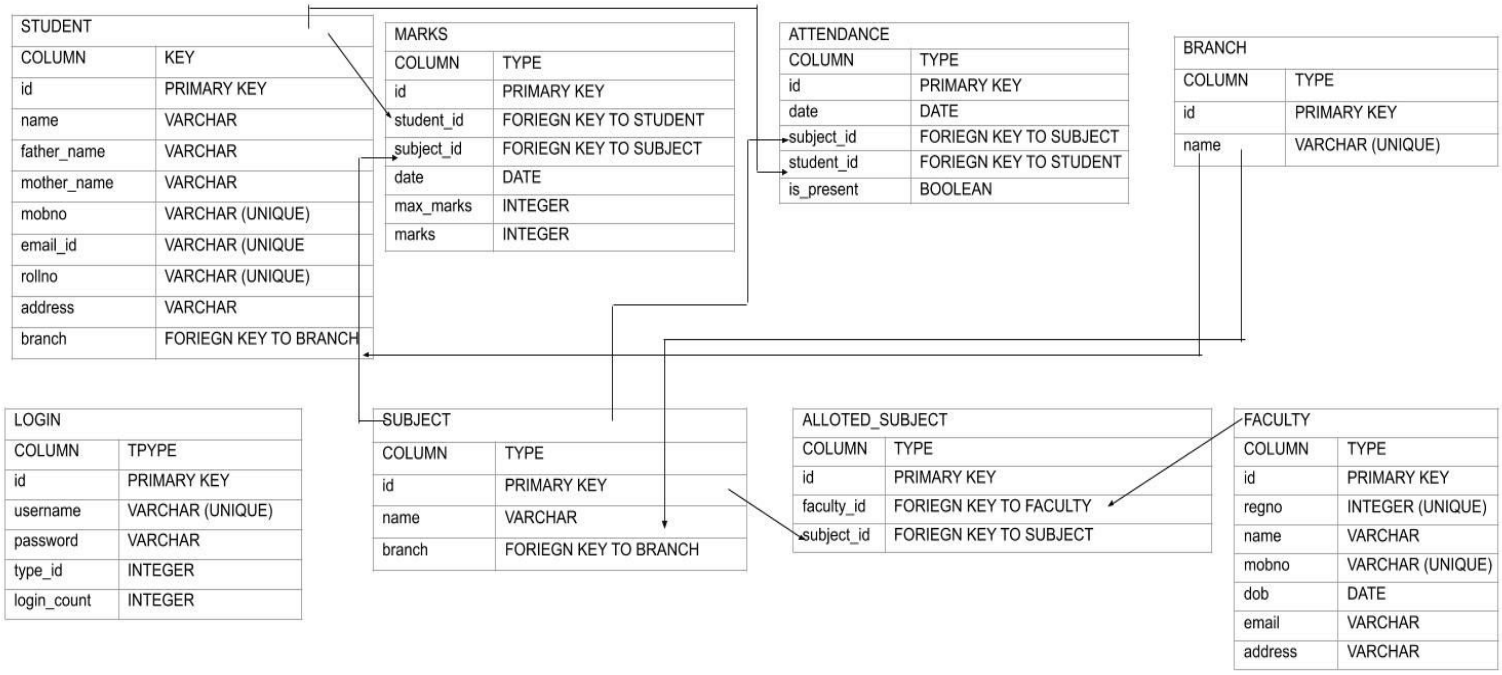
Technologies used

1. PHP
2. JavaScript
3. Bootstrap
4. HTML
5. MySQL
6. Angular JS

Project Description

1. **Admin Panel**
    a. This panel is the master panel who can perform the Add/Delete operations. Can create new faculty and students.
    b. This panel also allots the subject to each faculty. Now as a subject which is allotted to one faculty cannot be reallocated.
    c. Now faculty is not for a particular branch as can teach in multiple.
    d. Subject is also not unique as one subject can be for more than two branches and different faculty for it.
    e. Can delete the allotted subject to a faculty
2. **Faculty Panel**
    a. Now faculty can add marks to the allotted subject by admin to them
    b. Faculty will get the student list by default as each student belongs to a branch. So the student which has that branch will also have the subject in it.
    c. He/She can mark the attendance by deselecting the students which are absent on a particular date in class.
    d. He/She can also allot marks for a test which they conducted for their subject.
    e. Can view the Marks for the class or the attendance to record which is the one with less marks or the attendance
3. **Student Panel**
    a. Will get to see his/her details.
    b. By selecting the subject he/she can either view marks or attendance given to them.
4. **Login and Security**
    a. As admin creates a student or faculty then they will be allotted a password and on their first login have to give their password which they feel is be best for them

Database Design :



STUDENT	
COLUMN	KEY
id	PRIMARY KEY
name	VARCHAR
father_name	VARCHAR
mother_name	VARCHAR
mobno	VARCHAR (UNIQUE)
email_id	VARCHAR (UNIQUE
rollno	VARCHAR (UNIQUE)
address	VARCHAR
branch	FORIEGN KEY TO BRANCH

MARKS	
COLUMN	TYPE
id	PRIMARY KEY
student_id	FORIEGN KEY TO STUDENT
subject_id	FORIEGN KEY TO SUBJECT
date	DATE
max_marks	INTEGER
marks	INTEGER

ATTENDANCE	
COLUMN	TYPE
id	PRIMARY KEY
date	DATE
subject_id	FORIEGN KEY TO SUBJECT
student_id	FORIEGN KEY TO STUDENT
is_present	BOOLEAN

BRANCH	
COLUMN	TYPE
id	PRIMARY KEY
name	VARCHAR (UNIQUE)

LOGIN	
COLUMN	TPYPE
id	PRIMARY KEY
username	VARCHAR (UNIQUE)
password	VARCHAR
type_id	INTEGER
login_count	INTEGER

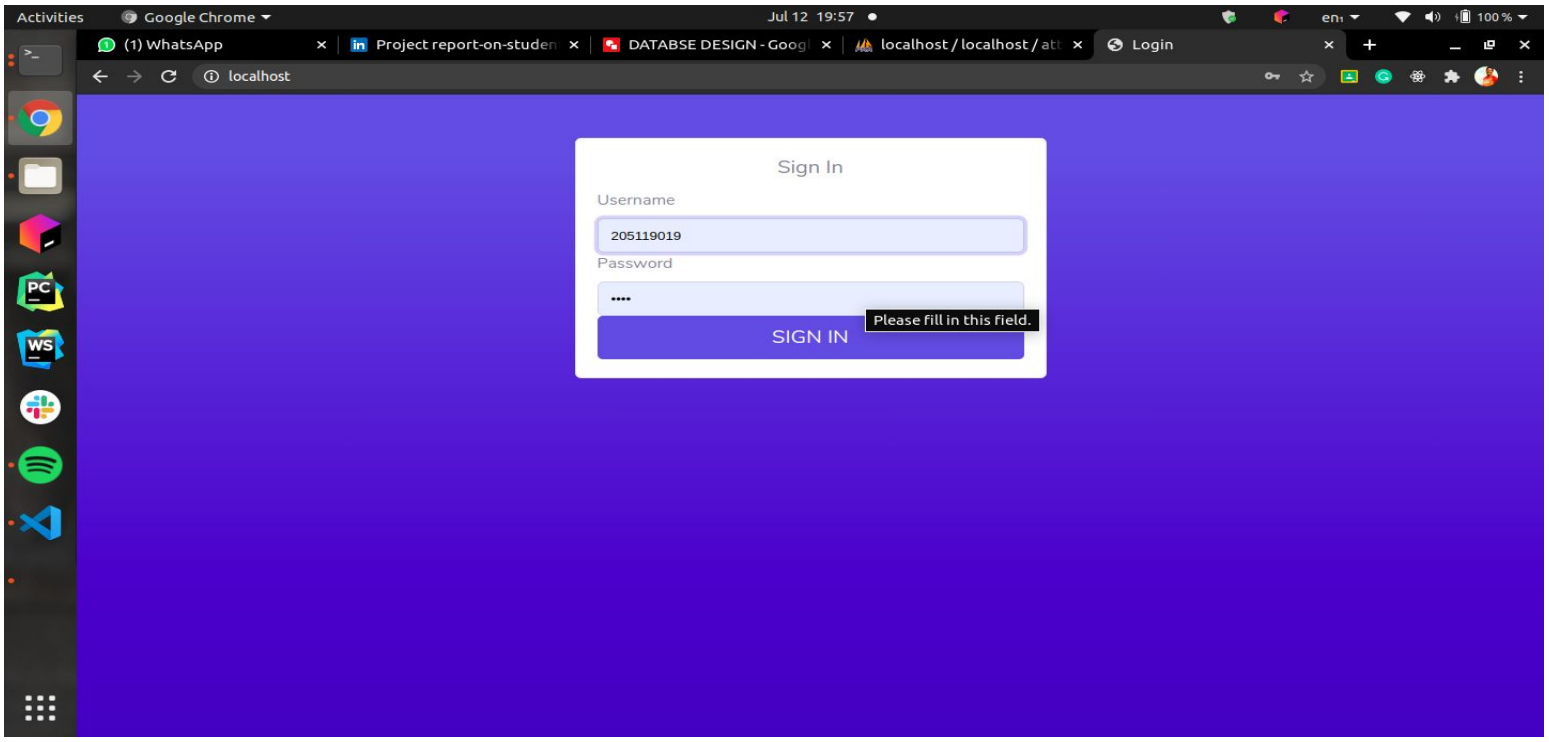
SUBJECT	
COLUMN	TYPE
id	PRIMARY KEY
name	VARCHAR
branch	FORIEGN KEY TO BRANCH

ALLOTED_SUBJECT	
COLUMN	TYPE
id	PRIMARY KEY
faculty_id	FORIEGN KEY TO FACULTY
subject_id	FORIEGN KEY TO SUBJECT

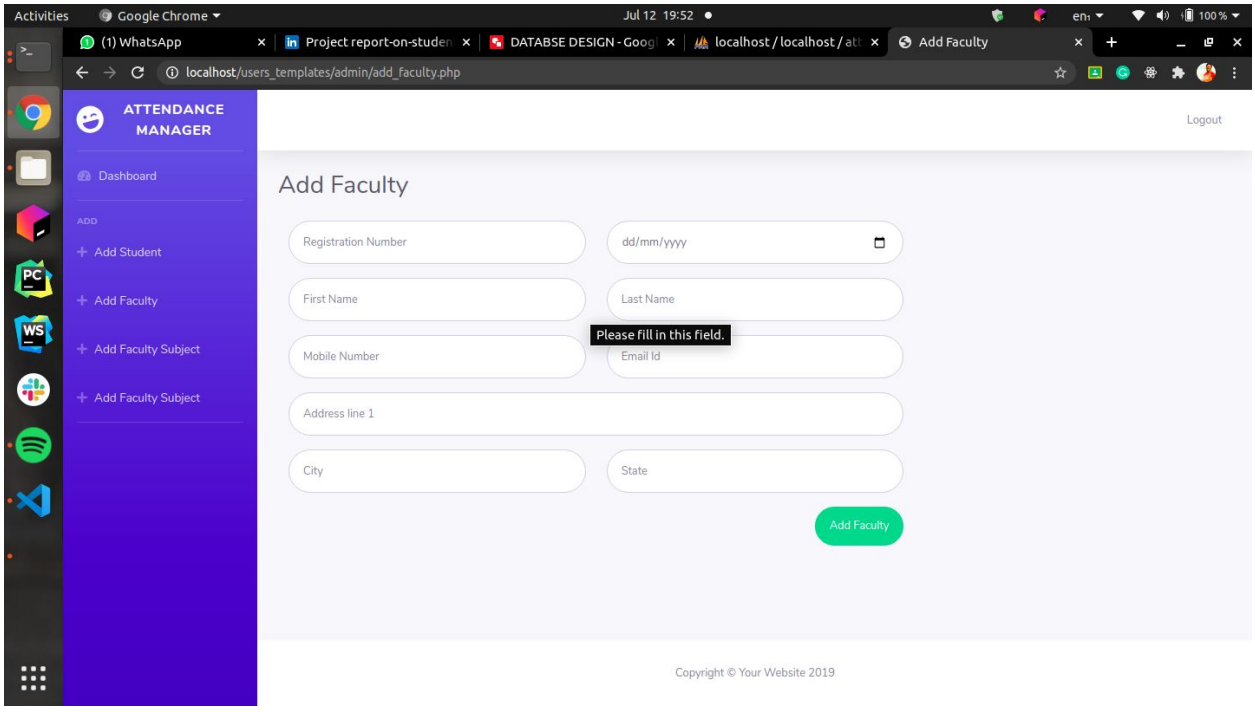
FACULTY	
COLUMN	TYPE
id	PRIMARY KEY
regno	INTEGER (UNIQUE)
name	VARCHAR
mobno	VARCHAR (UNIQUE)
dob	DATE
email	VARCHAR
address	VARCHAR

Snapshots :

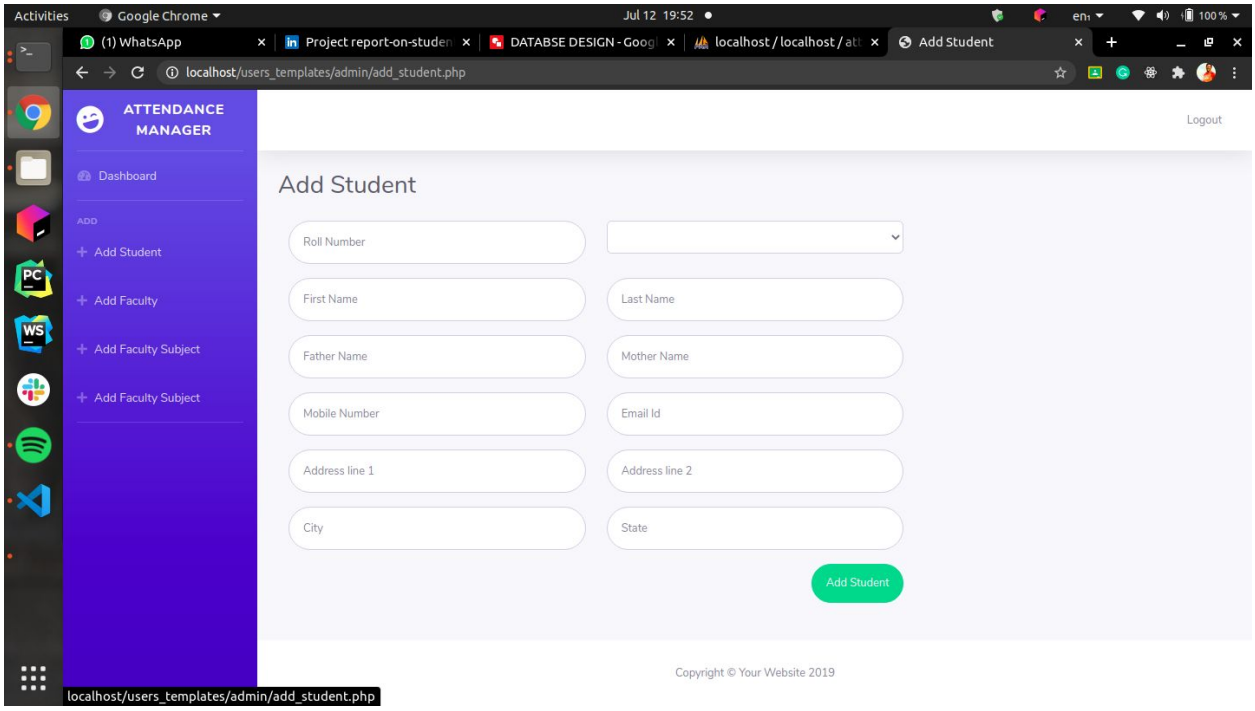
Login



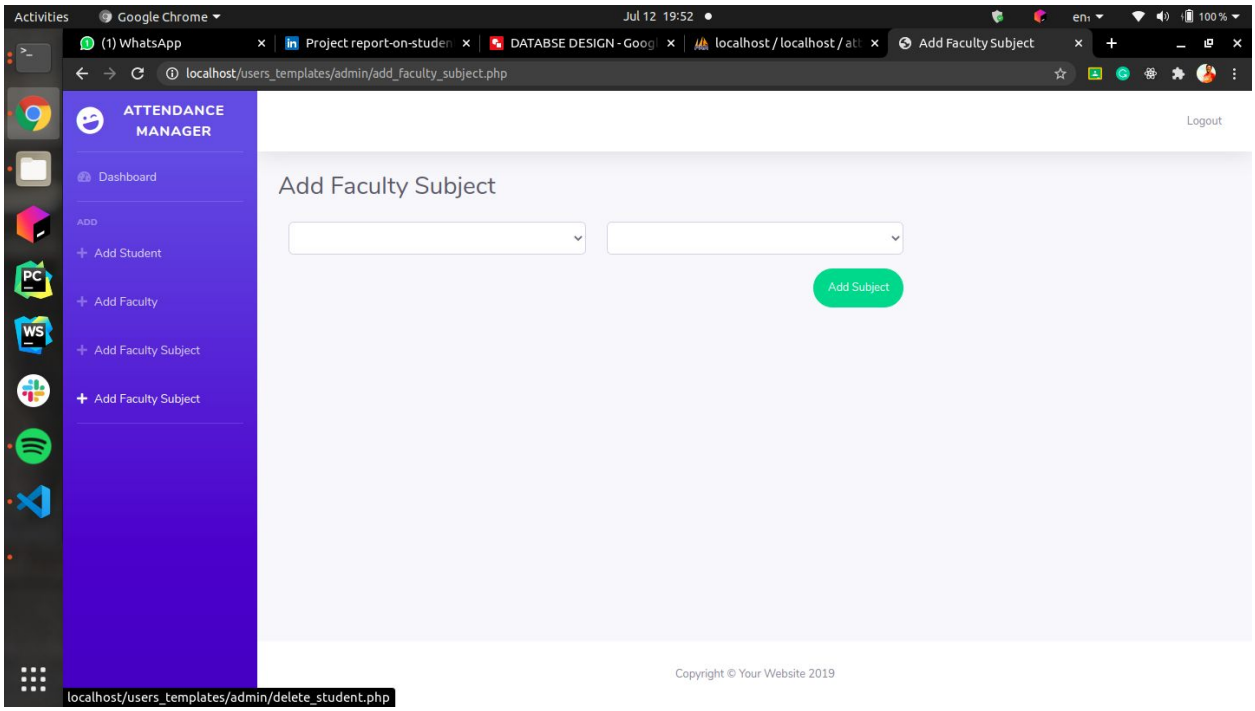
Add Faculty :



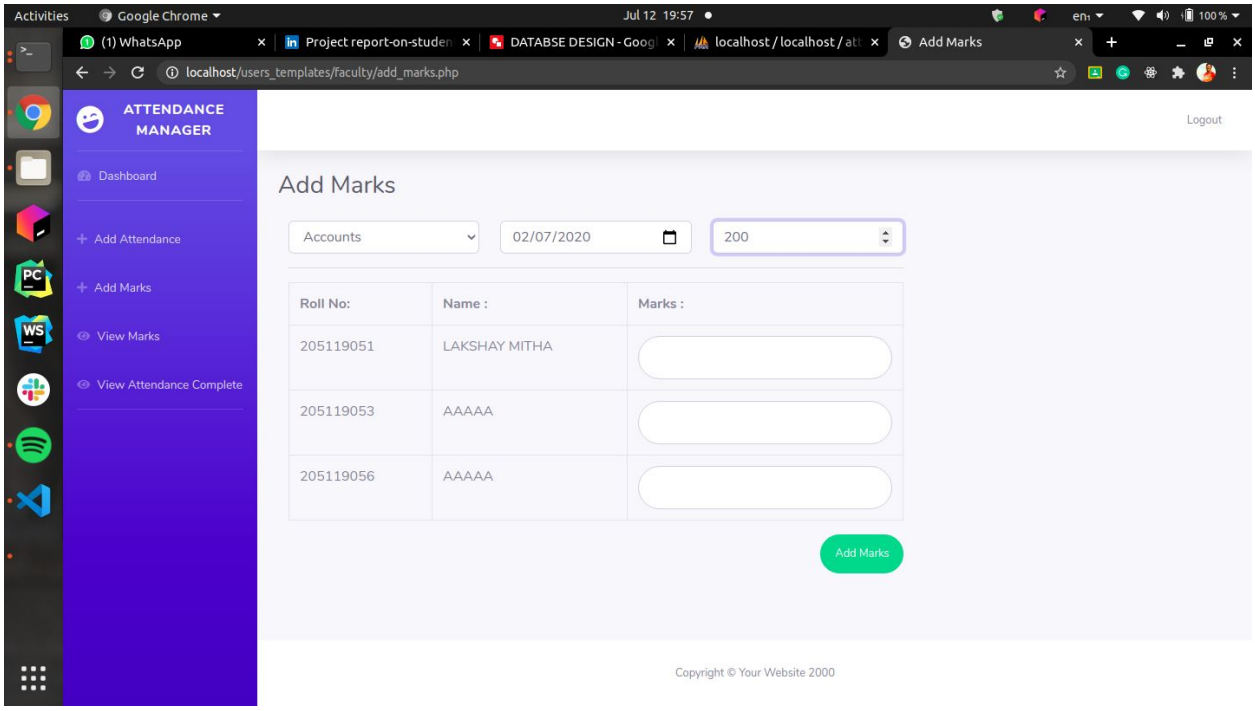
Add Student



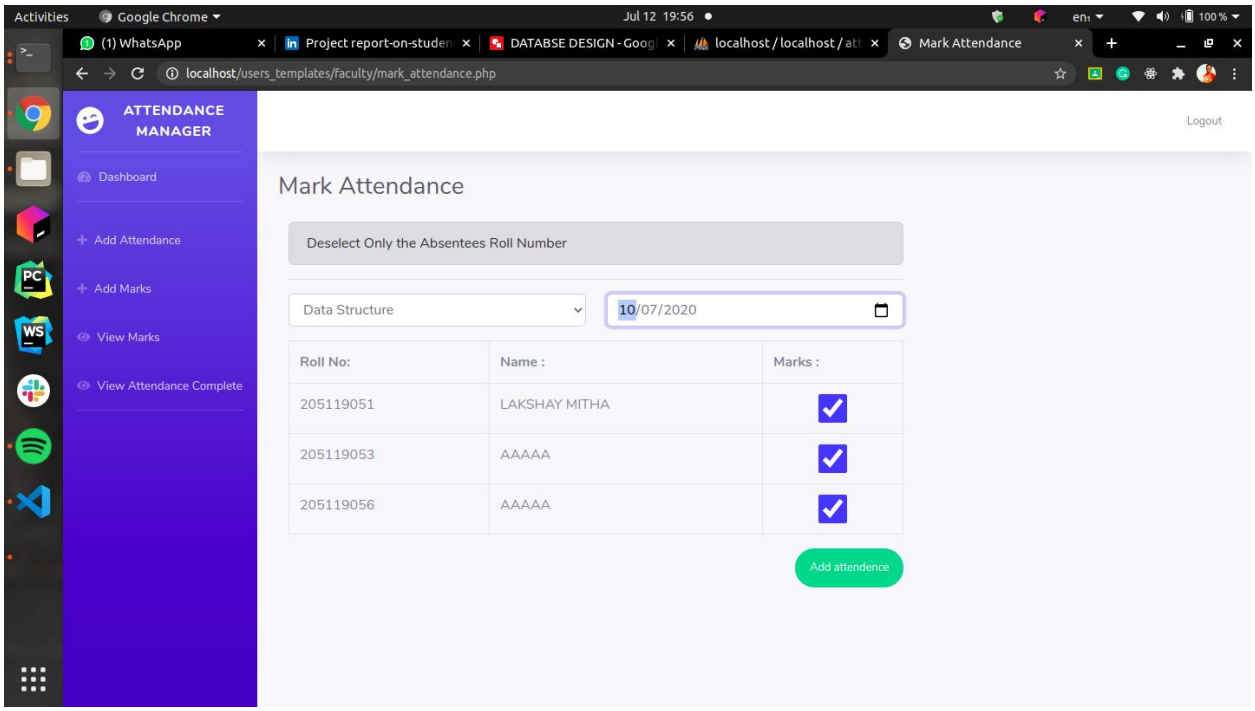
Allot subject to faculty



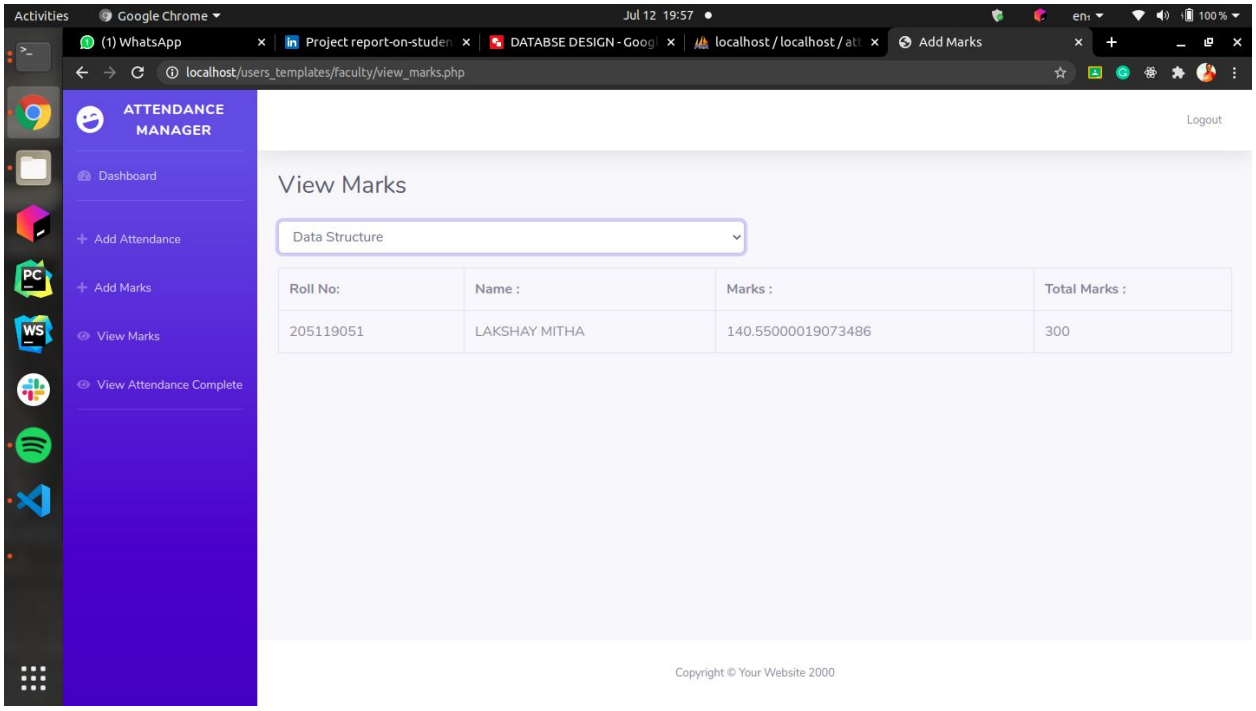
Add marks



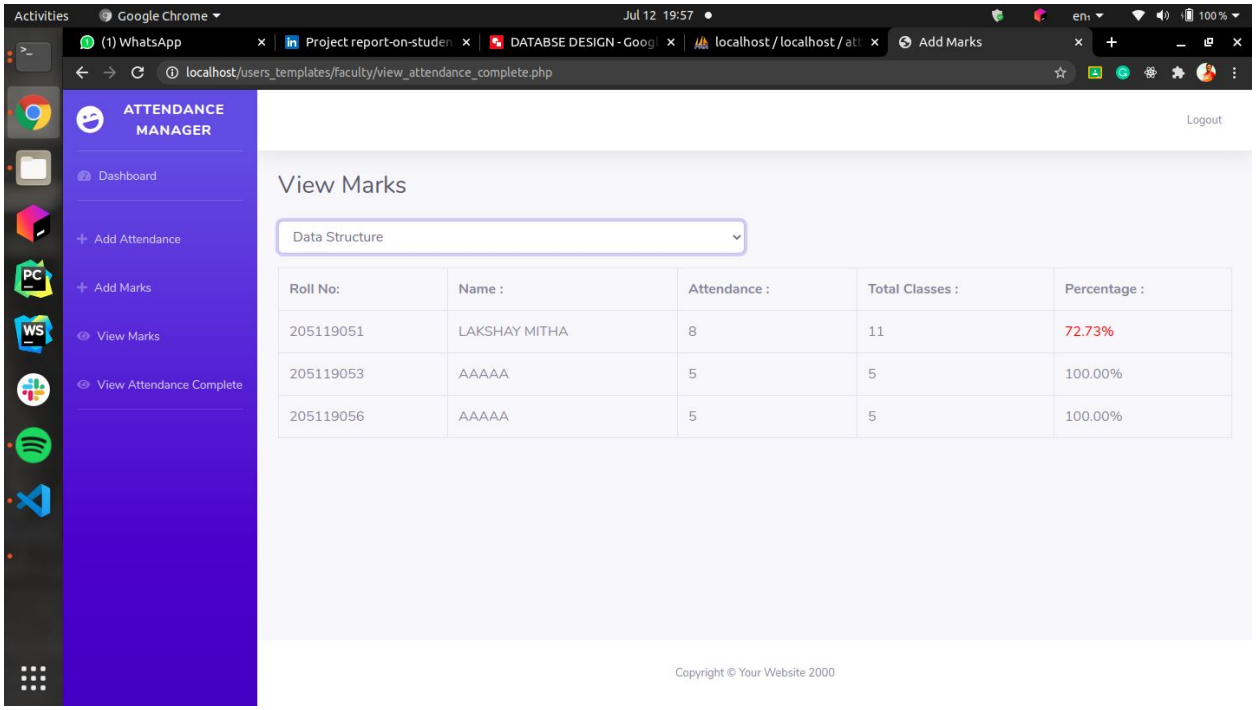
Add attendance



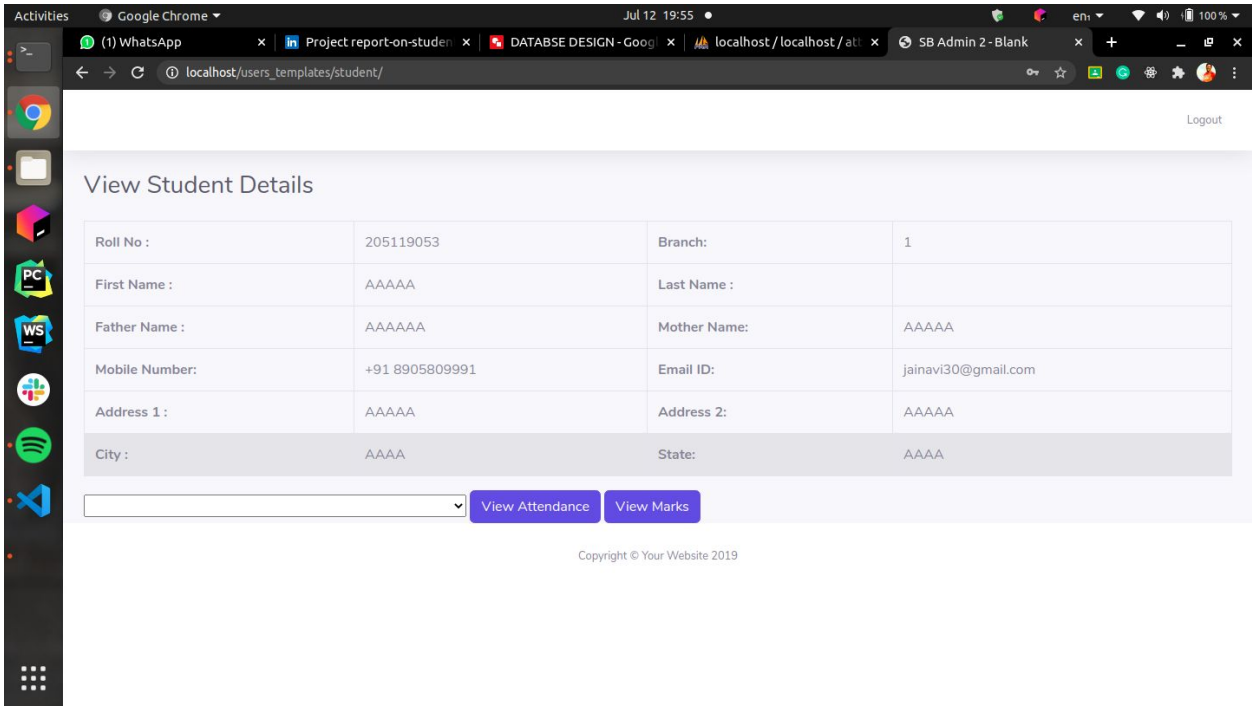
View marks (Faculty)



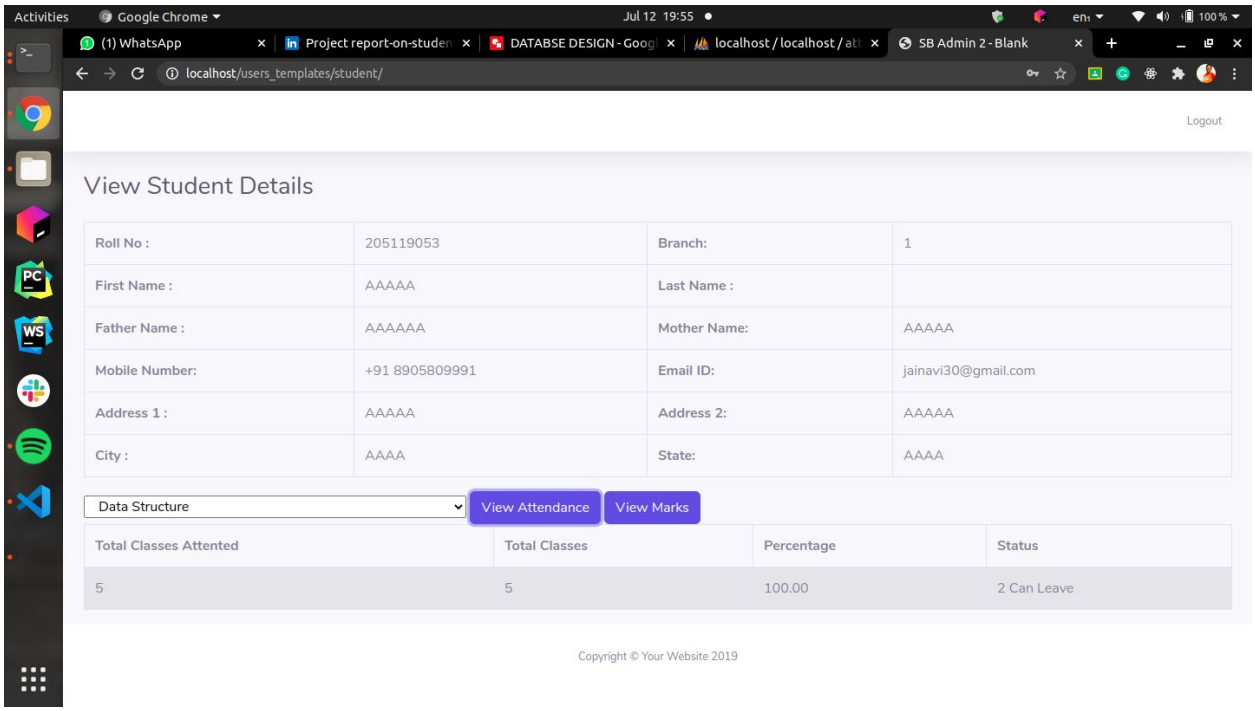
View Attendance (Faculty)



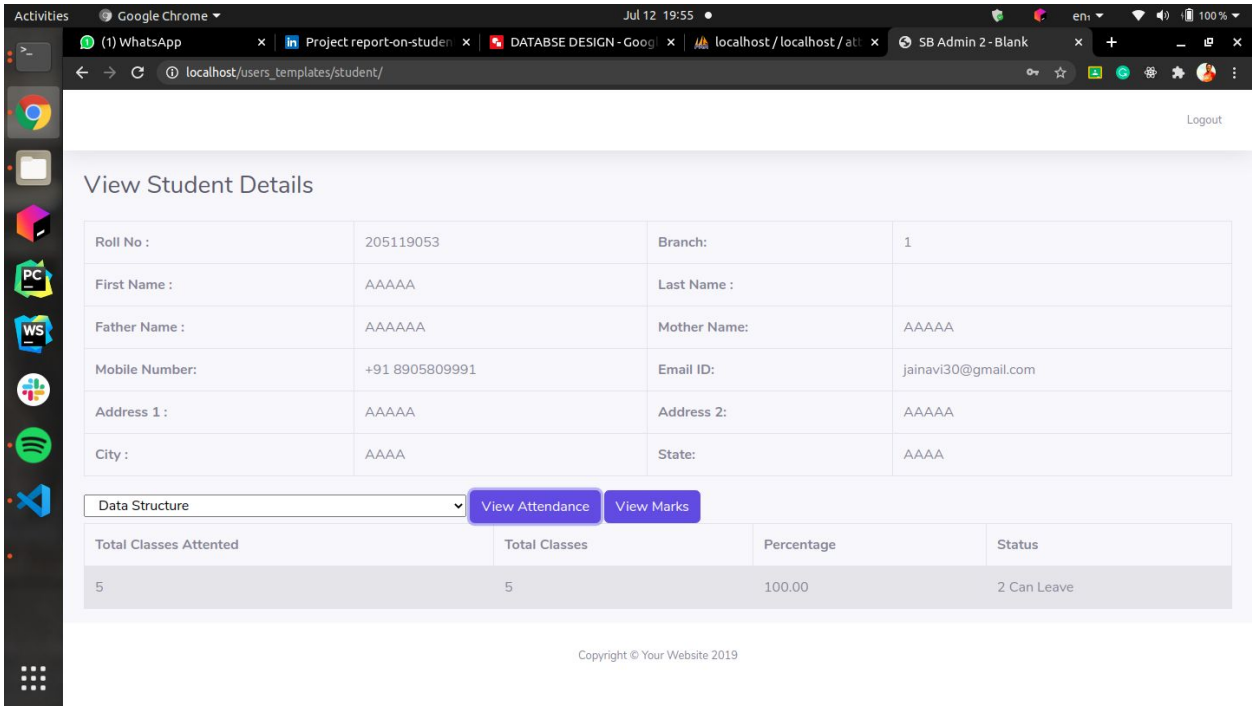
Student Details



View Marks(student)



View Attendance(student)



Scope of the Project

1. Further can be extended for students who pass and can be promoted to next year in branch.
2. Year can be added to each branch.
3. Report for faculty to student as conversation and notification form can be created as new assignment and can be added to each subject students can be informed through this portal and updated.

Bibliography

1. https://www.php.net/docs.php - for PHP reference
2. https://getbootstrap.com/ - theme and frontend
3. https://www.mysql.com/ - for sql guides
4. https://www.w3schools.com/php/php_mysql_intro.asp for mysql reference

Project Tree (these are only main files for reference)

```
.
├── index.php
├── js
│   ├── admin
│   │   ├── add_faculty.js
│   │   ├── add_faculty_subject.js
│   │   ├── add_student.js
│   │   ├── delete_student.js
│   │   └── pageLoader.js
│   ├── angular.min.js
│   ├── demo
│   │   ├── chart-area-demo.js
│   │   ├── chart-bar-demo.js
│   │   ├── chart-pie-demo.js
│   │   ├── datatables-demo.js
│   │   └── pageLoader.js
│   ├── faculty
│   │   ├── add_marks.js
│   │   ├── marks_attendance.js
│   │   ├── pageloder.js
│   │   ├── view_attendacne_complete.js
│   │   ├── view_attendance_ondate.js
│   │   └── view_marks.js
│   ├── jquery.min.js
│   ├── login.js
│   ├── new_password.js
│   ├── proper.min.js
│   ├── resourse.js
│   ├── sb-admin-2.js
│   ├── sb-admin-2.min.js
│   ├── student
│   │   ├── pageLoader.js
```

```
│   │   └── view_student.js
│   ├── view_attendance_ondate.js
│   └── view_student.js
├── output.txt
├── php
│   ├── admin
│   │   ├── add_faculty.php
│   │   ├── add_faculty_subject.php
│   │   ├── add_student.php
│   │   ├── delete_student.php
│   │   └── fetch_student.php
│   ├── connection.php
│   ├── faculty
│   │   ├── add_marks.php
│   │   ├── fetch_faculty_subject.php
│   │   ├── fetch_students.php
│   │   ├── mark_attendance.php
│   │   ├── view_attendance_complete.php
│   │   ├── view_attendance_ondate.php
│   │   └── view_marks.php
│   ├── fetch_attendance.php
│   ├── fetch_common_details.php
│   ├── fetch_marks.php
│   ├── login.php
│   ├── new_password.php
│   ├── selectLastId.php
│   ├── student
│   │   ├── fetch_attendance.php
│   │   ├── fetch_marks.php
│   │   ├── fetch_subject.php
│   │   └── view_student.php
│   ├── validations.php
│   └── view_attendance_ondate.php
```

```
└── users_templates
    ├── admin
    │   ├── add_faculty.php
    │   ├── add_faculty_subject.php
    │   ├── add_student.php
    │   ├── blank.php
    │   ├── delete_student.php
    │   ├── index.php
    │   └── pages
    │       ├── footer.html
    │       ├── logoutModal.html
    │       ├── navbar.html
    │       ├── scrollTop.html
    │       └── sidebar.html
    ├── faculty
    │   ├── add_marks.php
    │   ├── index.php
    │   ├── mark_attendance.php
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    │   ├── view_attendance_ondate.php
    │   ├── view_marks.php
    │   └── view_student.php
    ├── index.html
    ├── new_password.html
    ├── student
    │   ├── index.php
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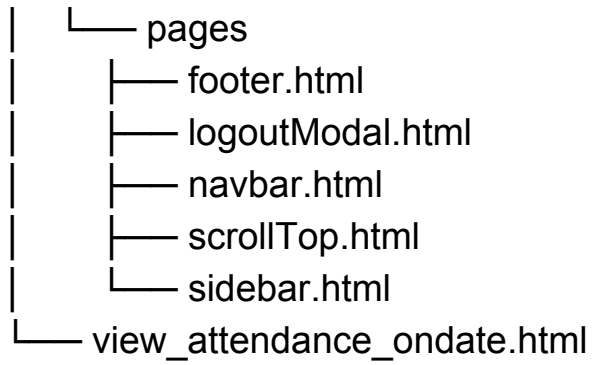
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