

HOSTEL MANAGEMENT **SYSTEM**

PRESENTED BY

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INTRODUCTION:

For the past few years the number of educational institutions are increasing rapidly. Thereby the number of hostels are also increasing for the accommodation of the students studying in this institution. And hence there is a lot of strain on the person who are running the hostel and software's are not usually used in this context. This particular project deals with the problems on managing a hostel and avoids the problems which occur when carried manually.

This project has been accomplished using XAMPP server and a good understanding of HTML, CSS, JAVA SCRIPT and PHP.



XAMPP

CASE STUDY:

Through This Project We Have Demonstrated A Hostel Management System that manages the student data, staff data, student admission process and create receipt for the fees paid by the student who stay in the hostel and also help in maintaining visitor's messages. This system is designed in favour of the hostel management which helps them to save the records of the students about their rooms. It helps them from the manual work from which it is very difficult to find the record of the students and the mess bills of the students, and the information of about those who had left the hostel.

Our system automatically calculates all the bills and issue the notifications for those students who are against some rules. Through this it is possible to check the personal profile of all the current students within fraction of seconds.

The Student When logged in has also been provided by the facility of issuing Sports Equipment by which they can have a glance of the equipment issued, its return date and Fine (if returned after return date).

The Student also have access to contact staff members in case of any emergency as when logged in they have access to view staff details this has been provided to set a better communication between the staff members and students.

The Student has also been provided with the facility of filing complaint if facing any issue and at the same time the respective candidate can also preview the status of his/her complaint.

SYSTEM REQUIRMENTS

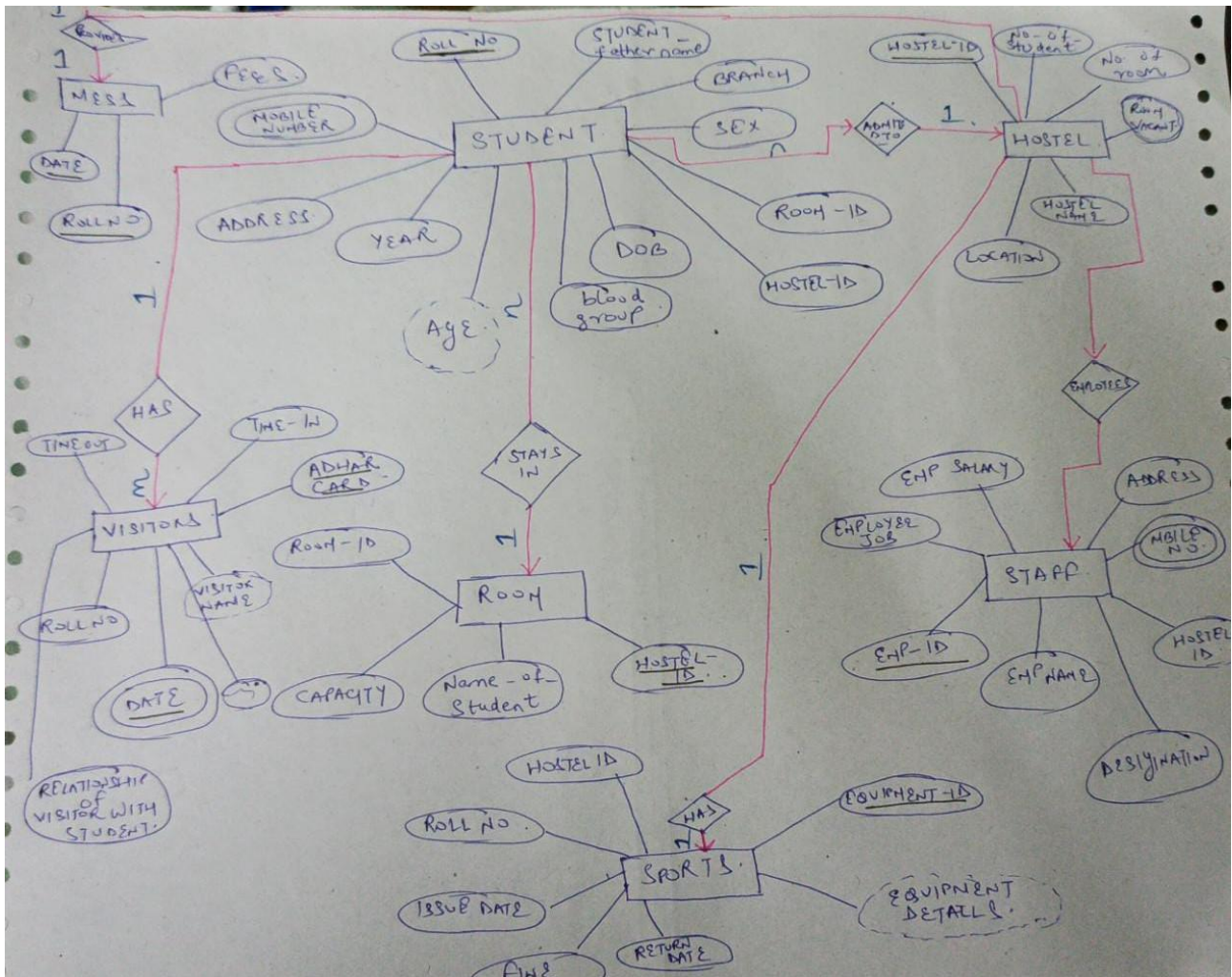
HARDWARE REQUIRMENTS:

- Operating System:
Windows 7/8/8.1/10.
- Memory (RAM): 1 GB of
RAM required.
- Hard Disk Space: 200 MB
of free space required.
- Processor: Intel Pentium
4 or later.
- Cache: 512KB

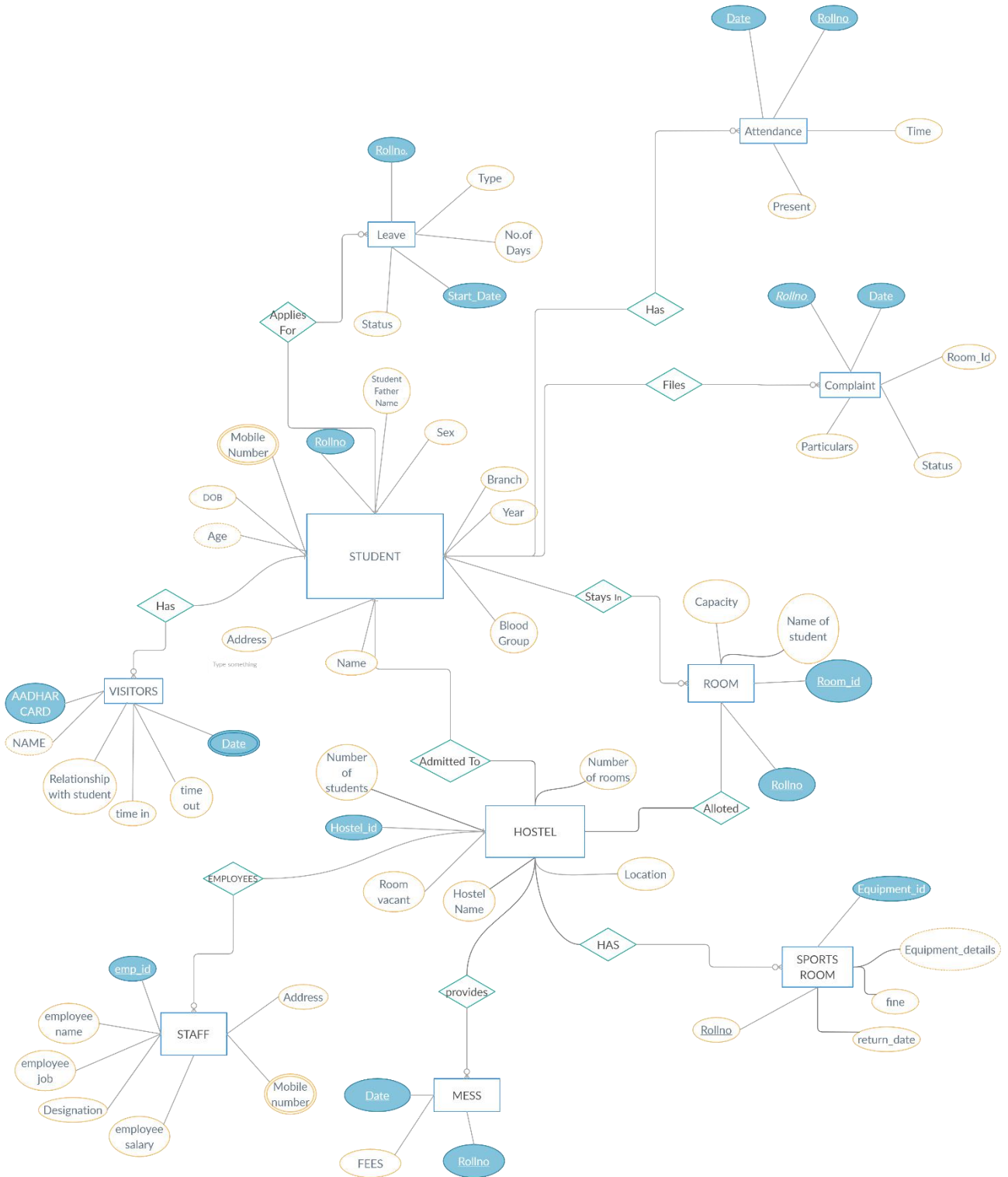
SOFTWARE REQUIRMENTS:

- Bootstrap Studio for designing the front-end, the front-end has been developed by the use of HTML, CSS and JS.
- MySQL has been used as a back-end query language.
- PHP has been chosen as a scripting language.
- Web Browser
(Chrome/Edge/Firefox)
- Graphics Accelerator
(Nvidia or ATI or GL Server)
- XAMPP/WAMPP or any other web server which can host
- My SQL

INITIAL ER DIGRAM



FINAL ER DIAGRAM



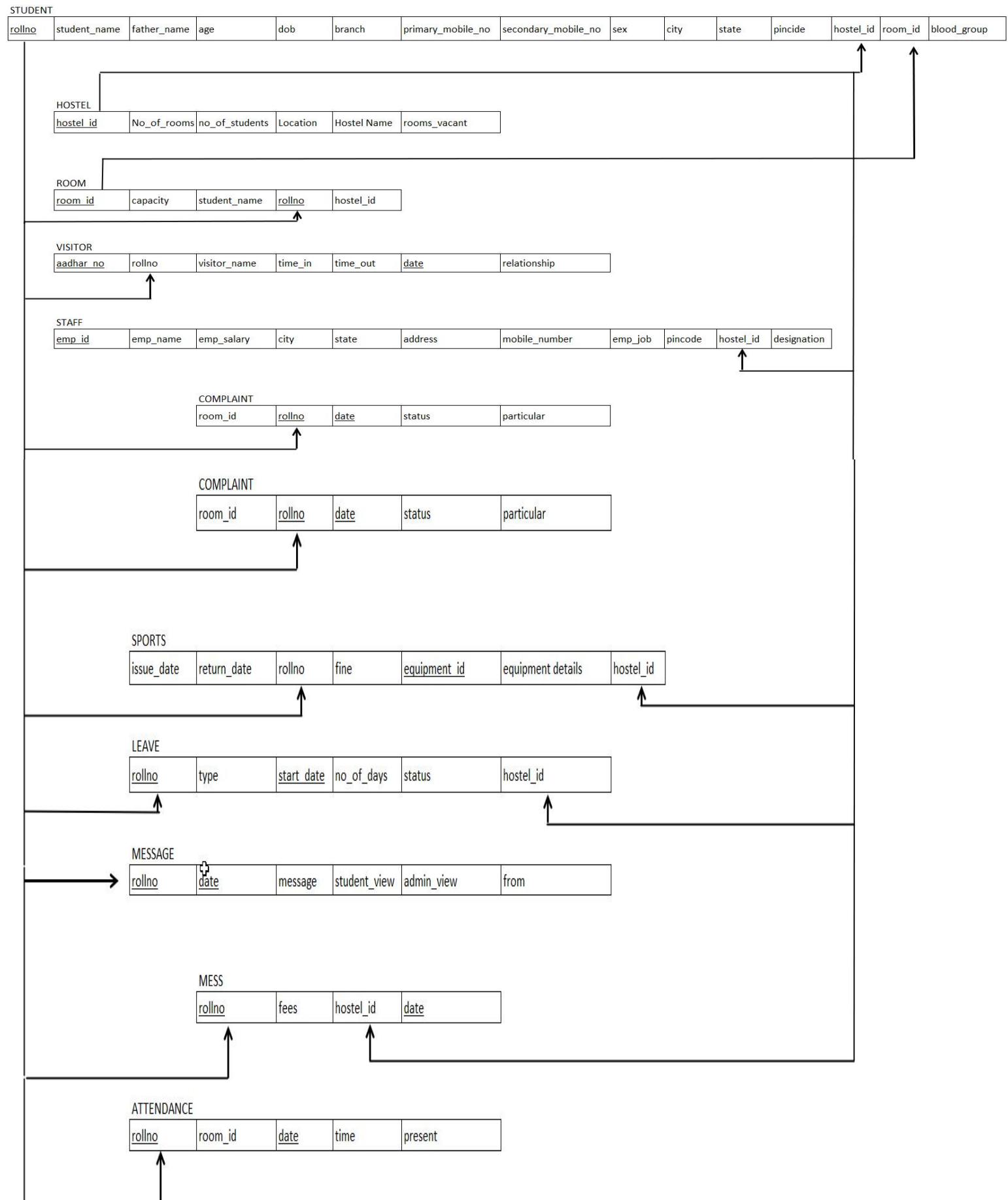
COMPARISON OF ER DIGRAMS

Comparing the initial and final ER Diagrams it is noticeable that in our initial diagram we were not having roll no as an entity and also Room_Id was serving as our primary key but at later stages we realized that 2 students can share same Room_Id but will definitely have different Roll no hence we added the attribute roll no and made it our primary key for room entity.

After presenting our initial ER in front of our professor they believed that we should also have entity which could compute the attendance and show it in our front end so we added the entity Attendance.

Henceforth we realized that the student should also be able to file complaint if he/she is facing any issue and at the same time ,they should also be given a feature which would allow them to ask for leave from hostel premises, Hence we added Complaint and Leave attributes in our Final ER diagram.

RELATIONAL MODEL MAPPED FROM ER DIGRAM



SQL AND RELATIONAL QUERIES

SQL QUERIES TO CREATE TABLES AND INSERT DATA

```
CREATE TABLE `hostel` (  
  `hostel_id` varchar(10) PRIMARY KEY,  
  `no_of_rooms` int(11) NOT NULL,  
  `no_of_students` int(11) NOT NULL,  
  `location` varchar(100) NOT NULL,  
  `hostel_name` varchar(30) NOT NULL,  
  `rooms_vacant` int(11) NOT NULL  
);
```

```
INSERT INTO `hostel` (`hostel_id`, `no_of_rooms`, `no_of_students`, `location`,  
  `hostel_name`, `rooms_vacant`) VALUES  
('1001', 500, 440, 'Narela', 'Hostel A ', 60),  
('1002', 400, 380, 'Narela', 'Hostel B', 20),  
('1003', 360, 355, 'Narela', 'Hostel C', 5),  
('1004', 600, 590, 'Narela', 'Hostel D', 10);
```

```
CREATE TABLE `student` (  
  `rollno` varchar(10) PRIMARY KEY,  
  `student_name` varchar(50) NOT NULL,  
  `father_name` varchar(50) NOT NULL,  
  `age` int(11) NOT NULL,  
  `dob` date NOT NULL,  
  `branch` varchar(50) NOT NULL,  
  `primary_mobile_no` varchar(12) NOT NULL,  
  `secondary_mobile_no` varchar(12) NOT NULL,  
  `sex` varchar(6) NOT NULL,  
  `year` varchar(1) NOT NULL,  
  `hostel_id` varchar(10) DEFAULT NULL,  
  `room_id` varchar(10) DEFAULT NULL,  
  `blood_group` varchar(15) NOT NULL,  
  `home_address` varchar(200) NOT NULL,  
  `city` varchar(40) NOT NULL,  
  `state` varchar(40) NOT NULL,  
  `pincode` varchar(6) NOT NULL
```

);

```
INSERT INTO `student` (`rollno`, `student_name`, `father_name`, `age`, `dob`, `branch`,  
`primary_mobile_no`, `secondary_mobile_no`, `sex`, `year`, `hostel_id`, `room_id`,  
`blood_group`, `home_address`, `city`, `state`, `pincode`) VALUES  
  
('19121', 'Kavi Hans', 'Father', 19, '2001-06-06', 'C.S.E', '8956748235', '9856478512', 'M',  
'2', NULL, NULL, '85', 'A+', 'delhi', 'delhi', '11394'),  
  
('191210048', 'Shlok Kumar Agarwal', 'Mr Agarwal', 20, '2000-06-16', 'C.S.E', '9874658231',  
'9874683214', 'M', '2', NULL, NULL, 'B+', 'B-9, APMC, Vashi', 'Mumbai', 'Maharashtra',  
'400703'),  
  
('191210052', 'Udit Singla', 'Mr Singla', 20, '2000-06-01', 'C.S.E', '9874658238',  
'9874683213', 'M', '2', NULL, NULL, 'A+', 'B-9, APMC, Vashi', 'Mumbai', 'Maharashtra',  
'400703'),  
  
('191210061', 'Vinayak Chachra', 'Vikas Chachra', 20, '2000-04-08', 'C.S.E', '9856748523',  
'985678265', 'M', '2', NULL, NULL, 'B+', '44 AGGARSEN NAGAR', 'AMBALA CANTT',  
'Haryana', '133001'),  
  
('19122', 'Darshan Chadha', 'Father', 19, '2001-06-08', 'C.S.E', '8956748234', '9856478516',  
'M', '2', NULL, NULL, 'A+', '95', 'delhi', 'delhi', '11394'),  
  
('19123', 'Wahid Nath', 'Father', 20, '2000-06-08', 'C.S.E', '8986748234', '7856478516', 'M',  
'2', NULL, NULL, 'A+', '93', 'delhi', 'delhi', '11394'),  
  
('19124', 'Ajay Rao', 'Father', 20, '2000-05-08', 'C.S.E', '6986748234', '75685647851', 'M',  
'2', NULL, NULL, 'A+', '4-1-449, Bank Street', 'Hyderabad', 'Andhra Pradesh', '500095'),  
  
('19125', 'Advay Subramaniam', 'Father', 20, '2000-05-06', 'C.S.E', '6976748234',  
'75585647851', 'M', '2', NULL, NULL, 'A+', '4-1-485, Bank Street', 'Hyderabad', 'Andhra  
Pradesh', '500095');
```

```
CREATE TABLE `room` (  
  `room_id` varchar(10) NOT NULL,  
  `capacity` int(11) NOT NULL,  
  `name_of_student` varchar(50) NOT NULL,  
  `rollno` varchar(10) NOT NULL,  
  `hostel_id` varchar(10) NOT NULL,  
  PRIMARY KEY(`room_id`, `rollno`)  
);
```

```
INSERT INTO `room` (`room_id`, `capacity`, `name_of_student`, `rollno`, `hostel_id`)  
VALUES  
('10', 2, 'vinayak chachra', '191210061', '1001'),  
('11', 2, 'Udit Singla', '191210052', '1001'),  
('32', 1, 'Shlok Kumar Agarwal', '191210048', '1002'),  
('5', 1, 'Darshan Chadha', '19122', '1004'),  
('7', 1, 'Wahid Nath', '19123', '1002'),  
('85', 2, 'Kavi Hans', '19121', '1003');
```

```
ALTER TABLE `room`
```

```
ADD FOREIGN KEY (`rollno`) REFERENCES `student` (`rollno`) ON DELETE CASCADE ON  
UPDATE CASCADE,
```

```
ADD FOREIGN KEY (`hostel_id`) REFERENCES `hostel` (`hostel_id`) ON DELETE CASCADE  
ON UPDATE CASCADE;
```

```
ALTER TABLE `student`
```

```
ADD FOREIGN KEY (`hostel_id`) REFERENCES `hostel` (`hostel_id`) ON DELETE SET NULL  
ON UPDATE CASCADE,
```

```
ADD FOREIGN KEY (`room_id`) REFERENCES `room` (`room_id`) ON DELETE SET NULL ON  
UPDATE CASCADE;
```

```
ALTER TABLE `student`
```

```
SET room_id = 10, hostel_id = 1001
```

```
WHERE rollno = 191210061;
```

```
ALTER TABLE `student`
```

```
SET room_id = 11, hostel_id = 1001
```

```
WHERE rollno = 191210052;
```

```
ALTER TABLE `student`
```

```
SET room_id = 32, hostel_id = 1002
```

```
WHERE rollno = 191210048;
```



```
ALTER TABLE `student`  
  
SET room_id = 5, hostel_id = 1004  
  
WHERE rollno = 19122;
```

```
ALTER TABLE `student`  
  
SET room_id = 7, hostel_id = 1002  
  
WHERE rollno = 19123;
```

```
ALTER TABLE `student`  
  
SET room_id = 85, hostel_id = 1003  
  
WHERE rollno = 19121;
```

```
CREATE TABLE `attendance` (  
    `rollno` varchar(10) NOT NULL,  
    `room_id` varchar(10) NOT NULL,  
    `date` date NOT NULL,  
    `time` time NOT NULL,  
    `present` varchar(3) NOT NULL,  
    PRIMARY KEY(`rollno`, `date`)
```

);

ALTER TABLE `attendance`

ADD FOREIGN KEY (`rollno`) REFERENCES `student` (`rollno`) ON DELETE CASCADE ON UPDATE CASCADE,

ADD FOREIGN KEY (`room_id`) REFERENCES `room` (`room_id`) ON DELETE CASCADE ON UPDATE CASCADE;

INSERT INTO `attendance` (`rollno`, `room_id`, `date`, `time`, `present`) VALUES

('19121', '85', '2020-11-01', '20:45:00', 'yes'),

('19121', '85', '2020-11-02', '20:00:00', 'no'),

('19121', '85', '2020-11-03', '20:30:00', 'yes'),

('19121', '85', '2020-11-04', '21:00:00', 'yes'),

('19121', '85', '2020-11-05', '20:00:00', 'no'),

('191210052', '11', '2020-11-01', '20:50:00', 'yes'),

('191210052', '11', '2020-11-02', '21:00:00', 'yes'),

('191210052', '11', '2020-11-03', '20:00:00', 'no'),

('191210052', '11', '2020-11-04', '21:00:00', 'yes'),

('191210052', '11', '2020-11-05', '20:20:00', 'yes'),

('191210061', '10', '2020-11-01', '20:30:00', 'yes'),

('191210061', '10', '2020-11-02', '20:25:00', 'yes'),

('191210061', '10', '2020-11-03', '20:00:00', 'no'),

('191210061', '10', '2020-11-04', '21:00:00', 'yes'),

```
('191210061', '10', '2020-11-05', '20:00:00', 'yes');
```

```
CREATE TABLE `complaint` (  
  `room_id` varchar(10) NOT NULL,  
  `rollno` varchar(10) NOT NULL,  
  `date1` date NOT NULL,  
  `status` varchar(20) DEFAULT 'pending',  
  `particular` varchar(200) NOT NULL,  
  PRIMARY KEY(`rollno`, `date1`)  
);
```

```
ALTER TABLE `complaint`  
  
  ADD FOREIGN KEY (`rollno`) REFERENCES `student` (`rollno`) ON DELETE CASCADE ON  
  UPDATE CASCADE,  
  
  ADD FOREIGN KEY (`room_id`) REFERENCES `room` (`room_id`) ON DELETE CASCADE ON  
  UPDATE CASCADE;
```

```
INSERT INTO `complaint` (`room_id`, `rollno`, `date1`, `status`, `particular`) VALUES  
(  
'85', '19121', '2020-10-25', 'pending', 'Electricity is out for 2 days'),  
(  
'32', '191210048', '2020-11-02', 'pending', 'Geyser not working'),  
(  
'11', '191210052', '2020-11-05', 'pending', 'Wifi not working'),  
(  
'10', '191210061', '2020-10-06', 'pending', 'Wifi not working'),
```

```
('10', '191210061', '2020-11-06', 'pending', 'wifi not working\r\n'),  
( '5', '19122', '2020-11-06', 'pending', 'Wifi not working'),  
( '7', '19123', '2020-10-25', 'pending', 'Electricity is out for 2 days');
```

```
CREATE TABLE `leaveform` (  
  `rollno` varchar(10) NOT NULL,  
  `type` varchar(30) NOT NULL,  
  `start_date` date NOT NULL,  
  `no_of_days` int(11) NOT NULL,  
  `status` varchar(9) NOT NULL DEFAULT 'pending',  
  `hostel_id` varchar(10) NOT NULL,  
  PRIMARY KEY(`rollno`, `start_date`)  
);
```

```
ALTER TABLE `leaveform`  
  
  ADD FOREIGN KEY (`rollno`) REFERENCES `student` (`rollno`) ON DELETE CASCADE ON  
  UPDATE CASCADE,  
  
  ADD FOREIGN KEY (`hostel_id`) REFERENCES `hostel` (`hostel_id`) ON DELETE CASCADE  
  ON UPDATE CASCADE;
```

```

INSERT INTO `leaveform` (`rollno`, `type`, `start_date`, `no_of_days`, `status`, `hostel_id`)
VALUES

('19121', 'leave', '2020-11-22', 10, 'pending', '1003'),
('191210048', 'leave', '2020-11-22', 10, 'pending', '1002'),
('191210052', 'casual leave', '2020-11-25', 15, 'pending', '1001'),
('191210061', 'sick leave', '2020-11-15', 10, 'pending', '1001'),
('19122', 'casual leave', '2020-11-25', 15, 'pending', '1004'),
('19123', 'sick leave', '2020-11-15', 10, 'pending', '1002');

```

```

CREATE TABLE `sports` (
  `issue_date` date NOT NULL,
  `return_date` date NOT NULL,
  `equipment_id` varchar(10) PRIMARY KEY,
  `rollno` varchar(10) NOT NULL,
  `fine` int(11) NOT NULL,
  `equipment_details` varchar(20) DEFAULT NULL,
  `hostel_id` varchar(10) DEFAULT NULL
);

```

```

ALTER TABLE `sports`

  ADD FOREIGN KEY (`rollno`) REFERENCES `student` (`rollno`) ON DELETE CASCADE ON
  UPDATE CASCADE,

```

```
ADD FOREIGN KEY (`hostel_id`) REFERENCES `hostel` (`hostel_id`) ON DELETE SET NULL
ON UPDATE CASCADE;
```

```
INSERT INTO `sports` (`issue_date`, `return_date`, `equipment_id`, `rollno`, `fine`,
`equipment_details`, `hostel_id`) VALUES
```

```
('2020-10-16', '2020-11-01', '101', '191210052', 16, 'badminton racket', '1002'),
('2020-10-16', '2020-11-02', '108', '19121', 0, 'carrom board', '1003'),
('2020-10-16', '2020-11-06', '112', '191210061', 1000, 'badminton racket', '1001'),
('2020-09-16', '2020-10-08', '113', '191210048', 0, 'badminton racket', '1001'),
('2020-10-06', '2020-11-06', '116', '19121', 400, 'bat', '1003'),
('2020-08-25', '2020-09-06', '124', '191210048', 15, 'carrom board', '1001'),
('2020-09-20', '2020-10-10', '125', '191210052', 0, 'shuttlecock', '1002'),
('2020-08-16', '2020-09-05', '168', '19123', 20, 'bat', '1002'),
('2020-10-12', '2020-11-03', '185', '19122', 10, 'shuttlecock', '1004'),
('2020-09-16', '2020-10-25', '196', '191210061', 0, 'chess', '1001');
```

```
CREATE TABLE `staff` (
  `emp_id` varchar(10) PRIMARY KEY,
  `emp_name` varchar(50) NOT NULL,
  `emp_salary` int(11) NOT NULL,
  `city` varchar(40) NOT NULL,
  `state` varchar(40) NOT NULL,
  `pincode` varchar(6) NOT NULL,
```

```
`address` varchar(200) NOT NULL,  
`mobile_number` varchar(12) NOT NULL,  
`hostel_id` varchar(10) NOT NULL,  
`designation` varchar(30) NOT NULL  
);
```

```
ALTER TABLE `staff`
```

```
ADD FOREIGN KEY (`hostel_id`) REFERENCES `hostel` (`hostel_id`) ON DELETE CASCADE  
ON UPDATE CASCADE;
```

```
INSERT INTO `staff` (`emp_id`, `emp_name`, `emp_salary`, `city`, `state`, `pincode`,  
`address`, `mobile_number`, `hostel_id`, `designation`) VALUES
```

```
('10011', 'Dr. Shailendra Tiwari', 800000, 'Mumbai', 'Mahara', '400063', '19 Vijay Kailas  
Estate', '9856748597', '1001', 'Warden'),
```

```
('10012', 'Mr. Kuldeep Singh ', 85000, 'Mumbai', 'Mahara', '400606', '3/b/11, Op Jk Gram',  
'9874658875', '1001', 'Caretaker'),
```

```
('10013', 'Pratik Dhingra', 10000, 'Mumbai', 'Mahara', '400703', 'B-8, APMC, Vashi',  
'6589756824', '1001', 'security guard'),
```

```
('10014', 'Vijaya Kara', 12000, 'Bangalore', 'Karnat', '560011', '40, Chinchwad',  
'8569748426', '1001', 'security guard'),
```

```
('10015', 'Nitya Rajagopalan', 8000, 'Bangalore', 'Karnat', '560011', '48, Chinchwad',  
'9865478523', '1001', 'sweeper'),
```

```
('10016', 'Asim Dalal', 9500, 'Mumbai', 'Mahara', '400063', '21 Vijay Kailas Estate',  
'8597468592', '1001', 'sweeper'),
```

```
('10017', 'Aditya Minhas', 12000, 'Mumbai', 'Mahara', '400703', 'B-9, APMC, Vashi',  
'7854236981', '1001', 'Electrician'),
```

('10021', 'Dr. Singara Singh', 1200000, 'Chennai', 'Tamil ', '600001', '193, Angappa Street', '9864785521', '1002', 'Warden'),

('10022', 'Mr. Jagjit Singh', 10000, 'Hyderabad', 'Andhra', '500095', '4-1-449, Bank Street', '8745985674', '1002', 'Caretaker'),

('10023', 'Pratik Dhingra', 10000, 'Mumbai', 'Mahara', '400703', 'B-8, APMC, Vashi', '6589756824', '1002', 'security guard'),

('10024', 'Vijaya Kara', 12000, 'Bangalore', 'Karnat', '560011', '40, Chinchwad', '8569748426', '1002', 'security guard'),

('10025', 'Nitya Rajagopalan', 8000, 'Bangalore', 'Karnat', '560011', '48, Chinchwad', '9865478523', '1002', 'sweeper'),

('10026', 'Asim Dalal', 9500, 'Mumbai', 'Mahara', '400063', '21 Vijay Kailas Estate', '8597468592', '1002', 'sweeper'),

('10027', 'Aditya Minhas', 12000, 'Mumbai', 'Mahara', '400703', 'B-9, APMC, Vashi', '7854236981', '1002', 'Electrician'),

('10031', 'Dr. S.C. Bose', 95000, 'Chennai', 'Tamil ', '600001', '1, Vakta Bhavan', '6845783295', '1003', 'Warden'),

('10032', 'Mr. Raj kumar', 75000, 'Bangalore', 'Karnat', '560011', '#125,10th Main', '9875813254', '1003', 'Caretaker'),

('10033', 'Pratik Dhingra', 10000, 'Mumbai', 'Mahara', '400703', 'B-8, APMC, Vashi', '6589756824', '1031', 'security guard'),

('10034', 'Vijaya Kara', 12000, 'Bangalore', 'Karnat', '560011', '40, Chinchwad', '8569748426', '1003', 'security guard'),

('10035', 'Nitya Rajagopalan', 8000, 'Bangalore', 'Karnat', '560011', '48, Chinchwad', '7665478523', '1003', 'sweeper'),

('10036', 'Asim Dalal', 9500, 'Mumbai', 'Mahara', '400063', '21 Vijay Kailas Estate', '6197468592', '1031', 'sweeper'),

('10037', 'Aditya Minhas', 12000, 'Mumbai', 'Mahara', '400703', 'B-9, APMC, Vashi', '9654236981', '1003', 'Electrician'),

('10041', 'Dr. Madhup Kumar Mittal', 1200000, 'Bangalore', 'Karnat', '560011', '38/4, Ring Rd', '7854986582', '1004', 'Warden'),

('10042', 'Mr. Purushottam Lal', 75000, 'Mumbai', 'Mahara', '400703', 'B-6, APMC, Vashi', '7854236981', '1004', 'Caretaker'),

('10043', 'Pratik Dhingra', 10000, 'Mumbai', 'Mahara', '400703', 'B-8, APMC, Vashi', '8589756824', '1004', 'security guard'),

('10044', 'Vijaya Kara', 12000, 'Bangalore', 'Karnat', '560011', '40, Chinchwad', '9569748426', '1004', 'security guard'),

('10045', 'Nitya Rajagopalan', 8000, 'Bangalore', 'Karnat', '560011', '48, Chinchwad', '4865478523', '1004', 'sweeper'),

('10046', 'Asim Dalal', 9500, 'Mumbai', 'Mahara', '400063', '21 Vijay Kailas Estate', '6597468592', '1004', 'sweeper'),

('10047', 'Aditya Minhas', 12000, 'Mumbai', 'Mahara', '400703', 'B-9, APMC, Vashi', '9854236981', '1004', 'Electrician');

```
CREATE TABLE `student_user` (  
  `username` varchar(20) PRIMARY KEY,  
  `password` varchar(30) NOT NULL  
)
```

```
INSERT INTO `student_user` (`username`, `password`) VALUES  
(  
'191210048', 'test123'),  
(  
'191210052', 'test123'),  
(  
'191210061', 'test123'),
```

```
('19122', 'test123'),  
('19123', 'test123'),  
('19124', 'test123'),  
('student', 'test123');
```

```
CREATE TABLE `visitor` (  
  `aadhar_number` int(11) NOT NULL,  
  `rollno` varchar(10) DEFAULT NULL,  
  `visitor_name` varchar(50) NOT NULL,  
  `time_in` time NOT NULL,  
  `time_out` time NOT NULL,  
  `date` date NOT NULL,  
  `relationship` varchar(30) NOT NULL,  
  PRIMARY KEY(`aadhar_number`, `date`)  
);
```

```
ALTER TABLE `visitor`  
  ADD FOREIGN KEY (`rollno`) REFERENCES `student` (`rollno`) ON DELETE CASCADE ON  
  UPDATE CASCADE;
```

```
INSERT INTO `visitor` (`aadhar_number`, `rollno`, `visitor_name`, `time_in`, `time_out`,
`date`, `relationship`) VALUES
(2147483647, '191210061', 'Rupal Thaman ', '10:30:00', '11:45:00', '2020-09-18', 'Cousin'),
(2147483647, '191210061', 'Binita Mehta', '10:30:00', '11:45:00', '2020-10-22', 'relative'),
(2147483647, '191210048', 'Aditi Munshi', '12:30:00', '14:45:00', '2020-10-29', 'Cousin');
```

ADVANCED FUNCTIONS USED:

We have created sessions in which we take the roll no of student and store it in a super global variable named `$_SESSION["Name"]`

IN THE ABOVE QUERIES LET `$_SESSION["Name"] = 191210061`

- SQL query to display details of the student

SELECT *

FROM student

Where rollno = '\$_SESSION["Name"]' ;

rollno	student_name	father_name	age	dob	branch	primary_mobile_no	secondary_mobile_no	sex	year	hostel_id	room_id
191210061	Vinayak Chachra	Vikas Chachra	20	2000-04-08	C.S.E	9856748523	985678265	M	2	1001	10

- SQL query to display all the notification of a particular student

SELECT *

FROM message

Where rollno = '\$_SESSION["Name"]' AND student_view = 1 ;

rollno	date1	message	from1
191210061	2020-11-06	HI	Warden
191210061	2020-11-07	Your fees is long due	Mess

- SQL query to display all the leave information of a particular student

SELECT *

FROM leaveform

Where rollno = '\$_SESSION["Name"]'

ORDER BY start_date DESC;

rollno	type	start_date ▼ 1	no_of_days	status	hostel_id
191210061	sick leave	2020-11-21	15	approved	1001
191210061	sick leave	2020-11-15	10	approved	1001
191210061	sick leave	2020-11-13	15	approved	1001
191210061	sick leave	2020-11-07	10	approved	1001
191210061		0000-00-00	0	approved	1001

- SQL query to display the sports record of a particular student

```
SELECT *
FROM sports
WHERE rollno = '$_SESSION["Name"]' ;
```

issue_date	return_date	equipment_id	rollno	fine	equipment_details	hostel_id
2020-10-16	2020-11-06	112	191210061	1000	badminton racket	1001
2020-09-16	2020-10-25	196	191210061	0	chess	1001

- SQL query to display all the staff info

```
SELECT * FROM staff ;
```

emp_id	emp_name	emp_salary	city	state	pincode	address	mobile_number	hostel_id	designation
10011	Dr. Shailendra Tiwari	800000	Mumbai	Mahara	400063	19 Vijay Kailas Estate	9856748597	1001	Warden
10012	Mr. Kuldeep Singh	85000	Mumbai	Mahara	400606	3/b/11, Op Jk Gram	9874658875	1001	Caretaker
10013	Pratik Dhingra	10000	Mumbai	Mahara	400703	B-8, APMC, Vashi	6589756824	1001	security guard
10014	Vijaya Kara	12000	Bangalore	Karnat	560011	40, Chinchwad	8569748426	1001	security guard
10015	Nitya Rajagopalan	8000	Bangalore	Karnat	560011	48, Chinchwad	9865478523	1001	sweeper
10016	Asim Dalal	9500	Mumbai	Mahara	400063	21 Vijay Kailas Estate	8597468592	1001	sweeper
10021	Dr. Singara Singh	1200000	Chennai	Tamil	600001	193, Angappa Street	9864785521	1002	Warden
10022	Mr. Jagjit Singh	10000	Hyderabad	Andhra	500095	4-1-449, Bank Street	8745985674	1002	Caretaker
10023	Pratik Dhingra	10000	Mumbai	Mahara	400703	B-8, APMC, Vashi	6589756824	1002	security guard
10024	Vijaya Kara	12000	Bangalore	Karnat	560011	40, Chinchwad	8569748426	1002	security guard
10025	Nitya Rajagopalan	8000	Bangalore	Karnat	560011	48, Chinchwad	9865478523	1002	sweeper

- SQL query to display all the hostel info

```
SELECT * FROM
hostel;
```

hostel_id	no_of_rooms	no_of_students	location	hostel_name	rooms_vacant
1001	500	440	Narela	Hostel A	60
1002	400	380	Narela	Hostel B	20
1003	360	355	Narela	Hostel C	5
1004	600	590	Narela	Hostel D	10

- SQL query to view all the complaints which are pending

```
SELECT *
FROM complaint
Where Status = 'pending';
```

8/

room_id	rollno	date1	status	particular
85	19121	2020-10-25	pending	Electricity is out for 2 days
32	191210048	2020-11-02	pending	Geyser not working
11	191210052	2020-11-05	pending	Wifi not working
5	19122	2020-11-06	pending	Wifi not working
7	19123	2020-10-25	pending	Electricity is out for 2 days

- SQL query to view all the leave applications which are pending
SELECT *

FROM leaveform Where Status = 'pending' ;

rollno	type	start_date	no_of_days	status	hostel_id
19121	leave	2020-11-22	10	pending	1003
19122	casual leave	2020-11-25	15	pending	1004
19123	sick leave	2020-11-15	10	pending	1002

- SQL query to view all the information of all the students

SELECT *

FROM student;

rollno	student_name	father_name	age	dob	branch	primary_mobile_no	secondary_mobile_no	sex	year	hostel_id	room_id	blood_group	home_address	city	state	pincode
19121	Kavi Hans	Father	19	2001-06-06	C.S.E	8956748235	9856478512	M	2	1003	85	A+	42	delhi	delhi	11394
191210048	Shlok Kumar Agarwal	Mr Agarwal	20	2000-06-16	C.S.E	9874658231	9874683214	M	2	1002	32	B+	B-9, APMC, Vashi	Mumbai	Maharashtra	400703
191210052	Udit Singla	Mr Singla	20	2000-06-01	C.S.E	9874658238	9874683213	M	2	1001	11	A+	B-9, APMC, Vashi	Mumbai	Maharashtra	400703
191210061	Vinayak Chachra	Vikas Chachra	20	2000-04-08	C.S.E	9856748523	985678265	M	2	1001	10	B+	44 AGGARSEN NAGAR	AMBALA CANTT	Haryana	133001
19122	Darshan Chadha	Father	19	2001-06-08	C.S.E	8956748234	9856478516	M	2	1004	5	A+	95	delhi	delhi	11394
19123	Wahid Nath	Father	20	2000-06-08	C.S.E	8986748234	7856478516	M	2	1002	7	A+	93	delhi	delhi	11394
19124	Ajay Rao	Father	20	2000-05-08	C.S.E	6986748234	75685647851	M	2	NULL	NULL	A+	4-1-449, Bank Street	Hyderabad	Andhra Pradesh	500095
19125	Advay Subramaniam	Father	20	2000-05-06	C.S.E	6976748234	75585647851	M	2	NULL	NULL	A+	4-1-485, Bank Street	Hyderabad	Andhra Pradesh	500095

- SQL query to update the fees and date

UPDATE mess

SET fees = fees + 3000 , date = date("Y-m-d") ;]

ADVANCED SQL QUERIES

- **SQL query to display student name mess fess and sports fine**

```
SELECT st.rollno, student_name , fine ,fees
FROM student st
INNER JOIN sports s
ON st.rollno = s.rollno
INNER JOIN mess m
ON m.rollno = st.rollno ;
```

rollno	student_name	fine	fees
191210052	Udit Singla	16	6000
19121	Kavi Hans	0	6000
191210061	Vinayak Chachra	1000	12000
191210048	Shlok Kumar Agarwal	0	3000
19123	Wahid Nath	20	9000
19122	Darshan Chadha	10	3000

- **SQL query to display emp_id , name, hostel_id, designation, salary of employee who has 2nd highest salary**

```
SELECT emp_id, emp_name, hostel_id, designation, MAX(emp_salary)
From staff
WHERE emp_salary < ( SELECT Max(emp_salary)
                     FROM staff);
```

emp_id	emp_name	hostel_id	designation	MAX(emp_salary)
10011	Dr. Shailendra Tiwari	1001	Warden	800000

- **SQL query to show student details who live in room '10'**

```
SELECT *
FROM student
WHERE student.rollno IN (SELECT room.rollno FROM room
                        WHERE room_id='10');
```

rollno	student_name	father_name	age	dob	branch	primary_mobile_no	secondary_mobile_no	sex	year	hostel_id	room_id
191210061	Vinayak Chachra	Vikas Chachra	20	2000-04-08	C.S.E	9856748523	985678265	M	2	1001	10

- **SQL query to display the information of hostel staff of a particular student**

```
SELECT *
FROM staff
WHERE hostel_id = (
    SELECT hostel_id
    FROM student
    WHERE rollno = '191210061' );
```

emp_id	emp_name	emp_salary	city	state	pincode	address	mobile_number	hostel_id	designation
10011	Dr. Shailendra Tiwari	800000	Mumbai	Mahara	400063	19 Vijay Kailas Estate	9856748597	1001	Warden
10012	Mr. Kuldeep Singh	85000	Mumbai	Mahara	400606	3/b/11, Op Jk Gram	9874658875	1001	Caretaker
10013	Pratik Dhingra	10000	Mumbai	Mahara	400703	B-8, APMC, Vashi	6589756824	1001	security guard
10014	Vijaya Kara	12000	Bangalore	Karnat	560011	40, Chinchwad	8569748426	1001	security guard
10015	Nitya Rajagopalan	8000	Bangalore	Karnat	560011	48, Chinchwad	9865478523	1001	sweeper
10016	Asim Dalal	9500	Mumbai	Mahara	400063	21 Vijay Kailas Estate	8597468592	1001	sweeper

- SQL query to finding the students who's fees is due for more than 9000 rupee

```
SELECT rollno
FROM mess
WHERE fees >= '9000' ;
```

rollno
19121
191210048
191210052
191210061
19122
19123

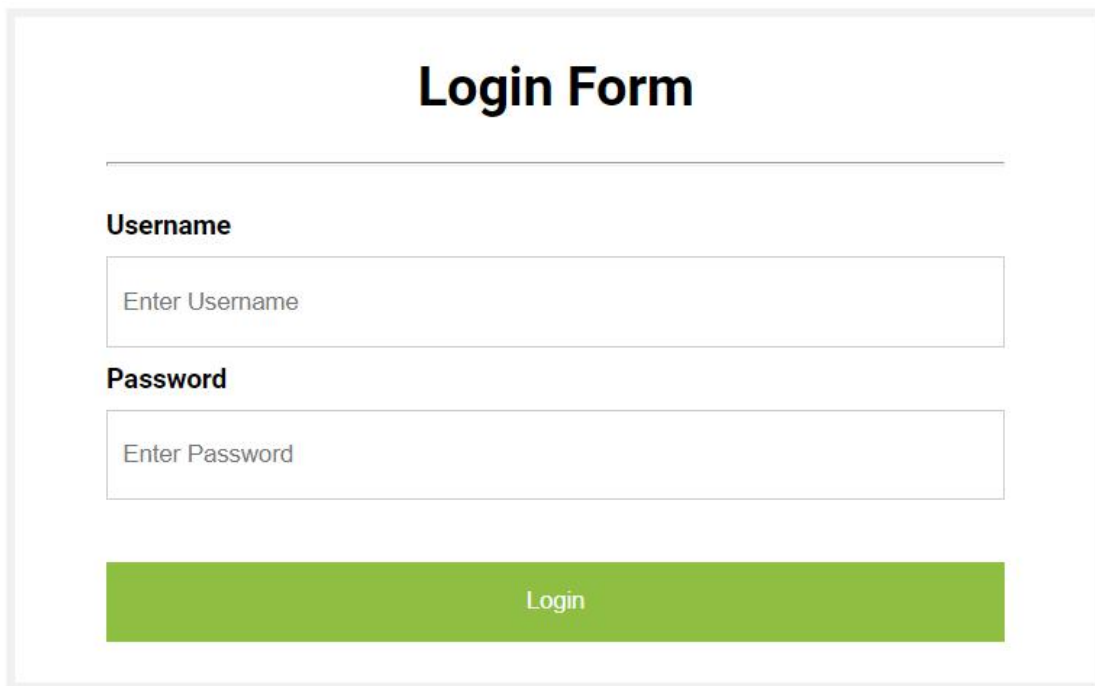
- SQL query to display all the complaint information of a particular student

```
SELECT *
FROM complaint
WHERE rollno = '191210061'
ORDER BY date1 DESC;
```

room_id	rollno	date1 ▼ 1	status	particular
10	191210061	2020-11-07	action taken	Wifi not working
10	191210061	2020-11-06	action taken	wifi not working
10	191210061	2020-10-06	action taken	Wifi not working

FRONT-END FUNCTIONALITY

Login page:



The image shows a login form with a title 'Login Form' at the top. Below the title is a horizontal line. Underneath the line are two input fields. The first is labeled 'Username' and contains the placeholder text 'Enter Username'. The second is labeled 'Password' and contains the placeholder text 'Enter Password'. Below these fields is a green button with the text 'Login'.

The first page is the login form.

The login will be done with username and password.

After successful login the user will be redirected to the page for which he has log in.

The login username and password are

'student roll number' = test123

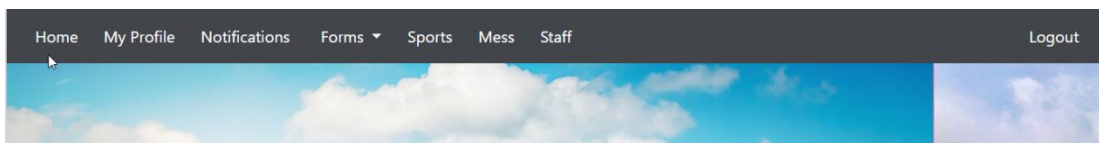
admin = test123

security=test123

sports=test123

mess =test123

Student Login:



The Navbar here shows all the features of the student page

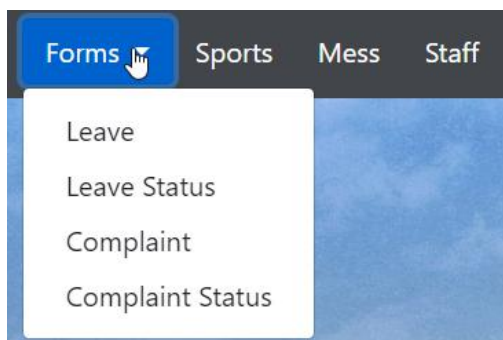
Home, My Profile, Notifications, Forms, Sports, Mess, Staff and the Logout buttons.

My Profile: This page will show student's own data to himself as registered in database.

Student Record													
Roll_No	Student_Name	Father_Name	Age	DOB	Branch	Primary_Mobile_No	Secondary_Mobile_No	Sex	Year	Hostel_Id	Room_Id	Blood_Group	Home_Address
191210052	Udit Singla	Mr Singla	20	2000-06-01	C.S.E	9874658238	9874683213	M	2	1001	11	A+	B-9, APMC, Vashi



Notifications: This page will show student the personalized and in general notification issued by the Admin, Mess etc.



Forms: This button will show 4 options for filling a Leave Application, checking Leave Status, Complain, Checking Complain status

Apply for Leave:


Roll Number:

191210052

Type:

Home Visit

Start Date:

11/10/2020 

NUMBER OF DAYS:

5

Hostel ID:

1004

SUBMIT

Check application Status:

Leave Status					
Roll Number	Type	Start Date	Number Of Days	Status	Hostel Id
191210052	Home Visit	2020-11-10	5	pending	1004

Register Complaint:

Room ID:

11

Roll Number:

191210052

Date:

11/08/2020

Particular:

No electricity in room.

SUBMIT

Complaint Record

Room ID	Roll Number	Date	Status	Particular
11	191210052	2020-11-11	pending	No electricity in room

Sports : this page will show the data of sports items issued by the student , the issue date, return date , and the fine.

Sports Equipment Record

Issue_Date	Return_Date	Equipment_Id	Roll_No	Fine	Equipment_Details	Hostel_Id
2020-11-03	2020-11-17	10215	191210052	0	Yoxen Badminton Racquet	1001

Staff: This page will show the data of staff to students in case they need it like the phone number of warden , name and phone number of plumber and electrician.

And at last the logout button.

Admin Login:

Staff: This button has 2 further options for Insert Staff Data, View Staff Data.

Employee id

Employee Name:

Employee salary:

Address:

City:

State:

Pincode:

Mobile Number:

Employee Job:

STAFF DATA

id	Name	Salary	Address	City	State	Pincode	Mobile	Job	Hostel id	Designation	Delete
10011	Dr. Shailendra Tiwari	800000	19 Vijay Kailas Estate	Mumbai	Mahara	400063	9856748597		1001	Warden	Delete
10012	Mr. Kuldeep Singh	85000	3/b/11, Op Jk Gram	Mumbai	Mahara	400606	9874658875		1001	Caretaker	Delete
10013	Pratik Dhingra	10000	B-8, APMC, Vashi	Mumbai	Mahara	400703	6589756824		1001	security guard	Delete
10014	Vijaya Kara	12000	40, Chinchwad	Bangalore	Karnat	560011	8569748426		1001	security guard	Delete
10015	Nitya Rajagopalan	8000	48, Chinchwad	Bangalore	Karnat	560011	9865478523		1001	sweeper	Delete
10016	Asim Dalal	9500	21 Vijay Kailas Estate	Mumbai	Mahara	400063	8597468592		1001	sweeper	Delete
10017	Aditya Minhas	12000	B-9, APMC, Vashi	Mumbai	Mahara	400703	7854236981		1001	Electrician	Delete
10021	Dr. Singara Singh	1200000	193, Angappa Street	Chennai	Tamil	600001	9864785521		1002	Warden	Delete
10022	Mr. Jagjit Singh	10000	4-1-449, Bank Street	Hyderabad	Andhra	500095	8745985674		1002	Caretaker	Delete
10023	Pratik Dhingra	10000	B-8, APMC, Vashi	Mumbai	Mahara	400703	6589756824		1002	security guard	Delete
10024	Vijaya Kara	12000	40, Chinchwad	Bangalore	Karnat	560011	8569748426		1002	security guard	Delete
10025	Nitya Rajagopalan	8000	48, Chinchwad	Bangalore	Karnat	560011	9865478523		1002	sweeper	Delete
10026	Asim Dalal	9500	21 Vijay Kailas Estate	Mumbai	Mahara	400063	8597468592		1002	sweeper	Delete
10027	Aditya Minhas	12000	B-9, APMC, Vashi	Mumbai	Mahara	400703	7854236981		1002	Electrician	Delete

Here the Delete button will delete the data of staff from this view.

Hostel: This button has further 2 options of Inserting hostel data and deleting data.

Hostel id
121
No of rooms
100
No of Students
180
Location
Offcampus
Hostel Name
Tdi My floor 2, Kundli , Sonipat, Haryana
Rooms Vacant
10
SUBMIT

Hostel Data

Hostel id	No of Rooms	No of Students	Location	Hostel Name	Rooms Vacant	Delete
1001	500	440	Narela	Hostel A	60	Delete
1002	400	380	Narela	Hostel B	20	Delete
1003	360	355	Narela	Hostel C	5	Delete
1004	600	590	Narela	Hostel D	10	Delete

Complaint Box:

This page will show the complaints registered by the students.

Complaint Record

Room ID	Roll Number	Date	Status	Particular	Action
32	191210048	2020-11-07	pending	no water on whole floor	Taken
11	191210052	2020-11-11	pending	No electricity in room	Taken
85	19123	2020-11-09	pending	tubelight fused	Taken

When the admin will select the **Taken** will change the status from pending to resolved and remove the complaint out of admin's view.

But it will also update the view complaint tab in student login and the complaint will be shown as **Resolved** there.

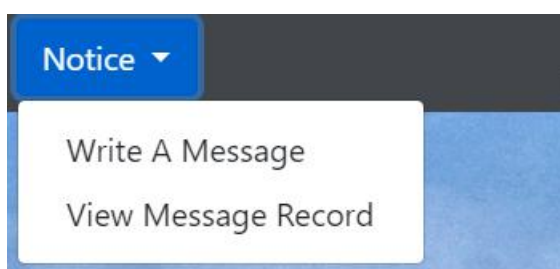
Leave: This page will show the data of applications for leave filed by students.

Leave Record							
Roll Number	Type	Start Date	Number Of Days	Status	Hostel Id	Action	Action
191210048	Home Visit	2020-11-04	6	pending	1004	Approve	Deny
191210052	Home Visit	2020-11-10	5	pending	1004	Approve	Deny
191210052	home visit	2020-11-18	6	pending	1001	Approve	Deny
19124	home visit	2020-11-10	1	pending	1003	Approve	Deny

Here there are 2 options available for the admin that are Approve the Leave Application or Reject/Deny it.

Simultaneously the Admin's decision to Accept or Reject will be displayed to the hosteler in their View Application Status page.


Notice: This button has 2 options to write a message or notice or view the record of message.



This feature allows the user to send Message/notice to a particular student by accessing his/her Roll Number, in addition to this a user can send a particular message to all the students by just typing **ALL** in the Roll Number column.

Roll Number:(To send to all the students type ALL)

DATE:

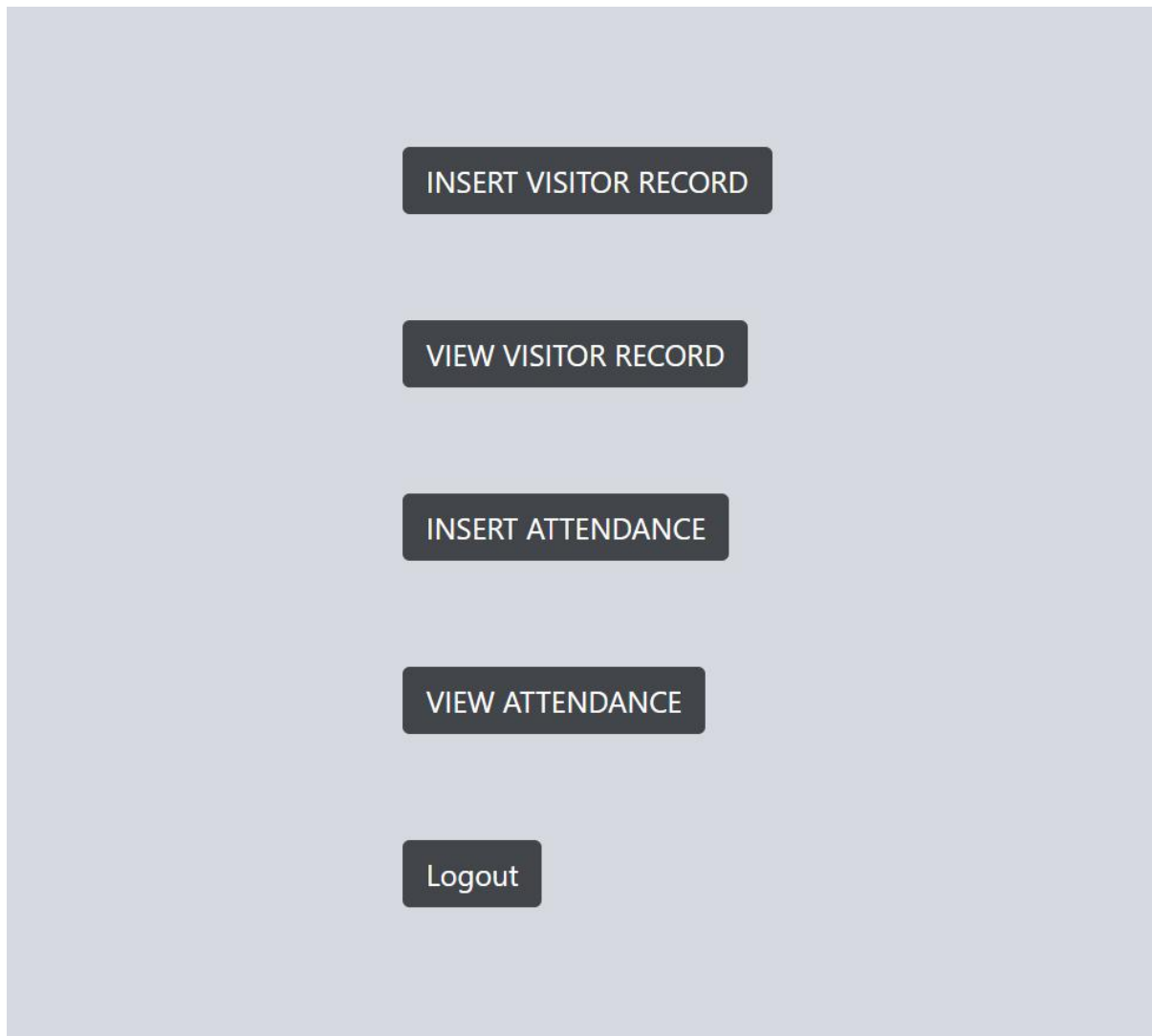
 

Message/Notice:

From:




SUBMIT

Security Incharge Login:



After successful login into the security page the user is directed to the section where he is provided with the 5 buttons. Each button provided has a specific task and can be called as a major section of our project.

Insert Visitor Record:

Aadhar Number:	<input type="text"/>
Roll Number:	<input type="text"/>
Visitor Name:	<input type="text"/>
Time In:	<input type="text" value="--:--"/> 
Time Out:	<input type="text" value="--:--"/> 
Date:	<input type="text" value="dd-mm-yyyy"/> 
Relation with Student :	<input type="text"/>
<input type="submit" value="SUBMIT"/>	

On clicking the insert visitor record button the user would be directed to the page where he would be able to enter the credentials of the visitor who will come to visit the respective student.

View Visitor Record:

On clicking the view visitor record button the user would be directed to the page where he would be able to get a view of all the visitors who had visited a particular student. Not only this the user could also view the credentials of the visitor ,his/her arrival and departure time and Relationship with the student.

Visitor Record						
Aadhar Number	Roll Number	Visitor Name	Time IN	Time OUT	Date	Relationship
2147483647	191210061	Rupal Thaman	10:30:00	11:45:00	2020-09-18	Cousin
2147483647	191210061	Binita Mehta	10:30:00	11:45:00	2020-10-22	relative
2147483647	191210048	Aditi Munshi	12:30:00	14:45:00	2020-10-29	Cousin

INSERT ATTENDENCE:

Roll Number:

Room ID:

DATE:

dd-mm-yyyy

Time

--:--

Present:

SUBMIT

This is a special feature which would allow the user to mark the presence or absence of a particular student on a specified date and time by having information of students Roll Number and Room ID, This feature ensures complete security of the student and has been added on recommendation of our professor.

VIEW ATTENDENCE:

Attendance Record				
Roll Number	Room ID	Date	Time	Attendance
19121	85	2020-11-01	20:45:00	yes
19121	85	2020-11-02	20:00:00	no
19121	85	2020-11-03	20:30:00	yes
19121	85	2020-11-04	21:00:00	yes
19121	85	2020-11-05	20:00:00	no
191210052	11	2020-11-01	20:50:00	yes
191210052	11	2020-11-02	21:00:00	yes
191210052	11	2020-11-03	20:00:00	no
191210052	11	2020-11-04	21:00:00	yes
191210052	11	2020-11-05	20:20:00	yes
191210061	10	2020-11-01	20:30:00	yes
191210061	10	2020-11-02	20:25:00	yes
191210061	10	2020-11-03	20:00:00	no



By clicking this button the user would be directed to the page where he would have access to view the attendance record of the students on particular dates ,the record provides complete information of student's Roll No, Room ID, his/her absence or presence on a particular date and time.

SPORTS LOGIN:



After successful login into the sports section page the user is directed to a section where he/she has been provided with 2 buttons. Each button has a specific task.

INSERT SPORTS RECORD:

Issue DATE:	<input type="text" value="dd - mm - yyyy"/>	
Return DATE:	<input type="text" value="dd - mm - yyyy"/>	
Equipment ID:	<input type="text"/>	
Roll Number:	<input type="text"/>	
Fine:	<input type="text"/>	
Equipment Details:	<input type="text"/>	
Hostel_Id:	<input type="text"/>	
<input type="button" value="SUBMIT"/>		

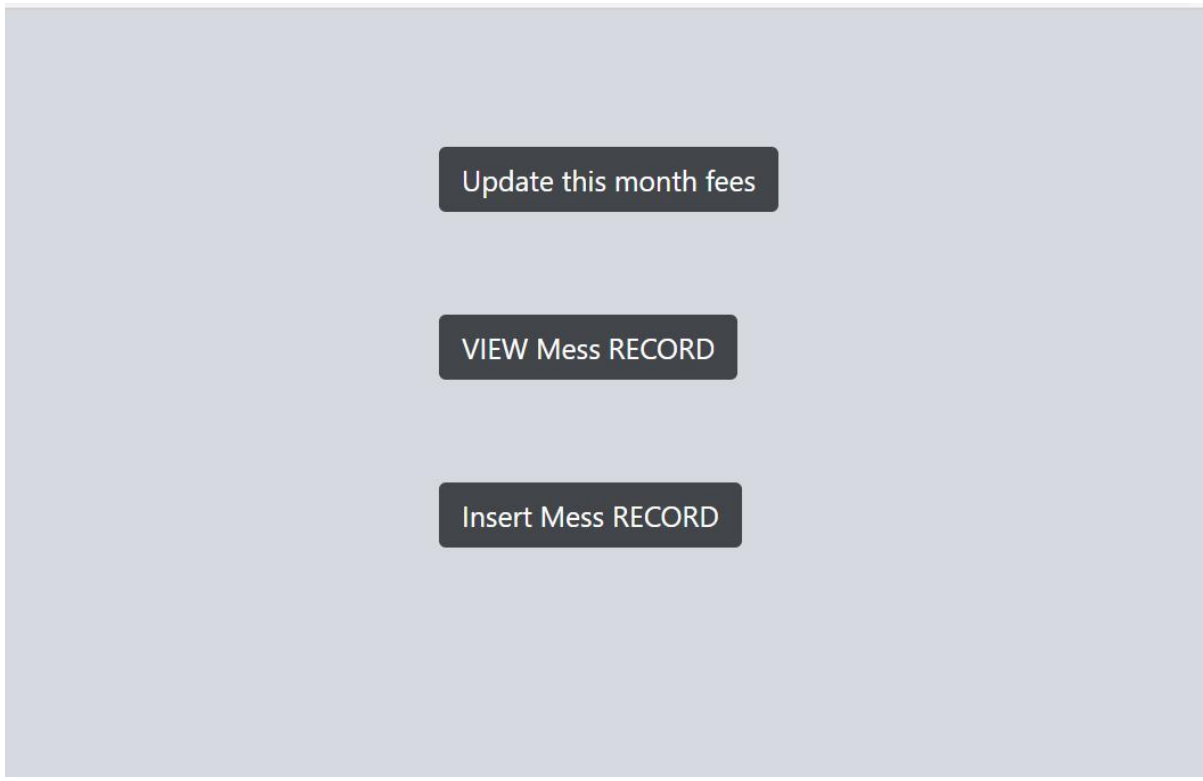
On clicking this button the user would be directed to a page where he would be able to issue sports equipment to students by having information about his/her Roll Number and Hostel Id. The user has also been provided with the facility of imposing fine to a particular student if equipment is returned after Return date.

VIEW SPORTS RECORD:

Sports Equipment Record						
Issue_Date	Return_Date	Equipment_Id	Roll_No	Fine	Equipment_Details	Hostel_Id
2020-10-16	2020-11-01	101	191210052	16	badminton racket	1002
2020-10-16	2020-11-02	108	19121	0	carrom board	1003
2020-10-16	2020-11-06	112	191210061	1000	badminton racket	1001
2020-09-16	2020-10-08	113	191210048	0	badminton racket	1001
2020-10-06	2020-11-06	116	19121	400	bat	1003
2020-08-25	2020-09-06	124	191210048	15	carrom board	1001
2020-09-20	2020-10-10	125	191210052	0	shuttlecock	1002
2020-08-16	2020-09-05	168	19123	20	bat	1002
2020-10-12	2020-11-03	185	19122	10	shuttlecock	1004
2020-09-16	2020-10-25	196	191210061	0	chess	1001

On clicking this button the user would be directed to a page where he would be able to view as to when a particular sports equipment was issued, its return date, the equipment id and details. The user can also view the fine(if any) on a specific student by looking at his/her Roll No.

MESS LOGIN:



After successful login into the Mess section page the user is directed to a section where he/she has been provided with 3 buttons. Each button has a specific task.

UPDATE THIS MONTH FEES:

 **Successfully Updated**

This feature allows the user to update the mess fees of the students, by clicking on this button the user is directed to a page where a message showing successful update of fees is displayed.

VIEW MESS RECORD:

Search By

Roll Number

Enter Roll Number

OR


Hostel Id

Enter Hostel Id

Search

On clicking this button the mess owner is directed to a page where he/she can view mess record by simply typing the Roll Number or Hostel Id.

INSERT MESS RECORD:

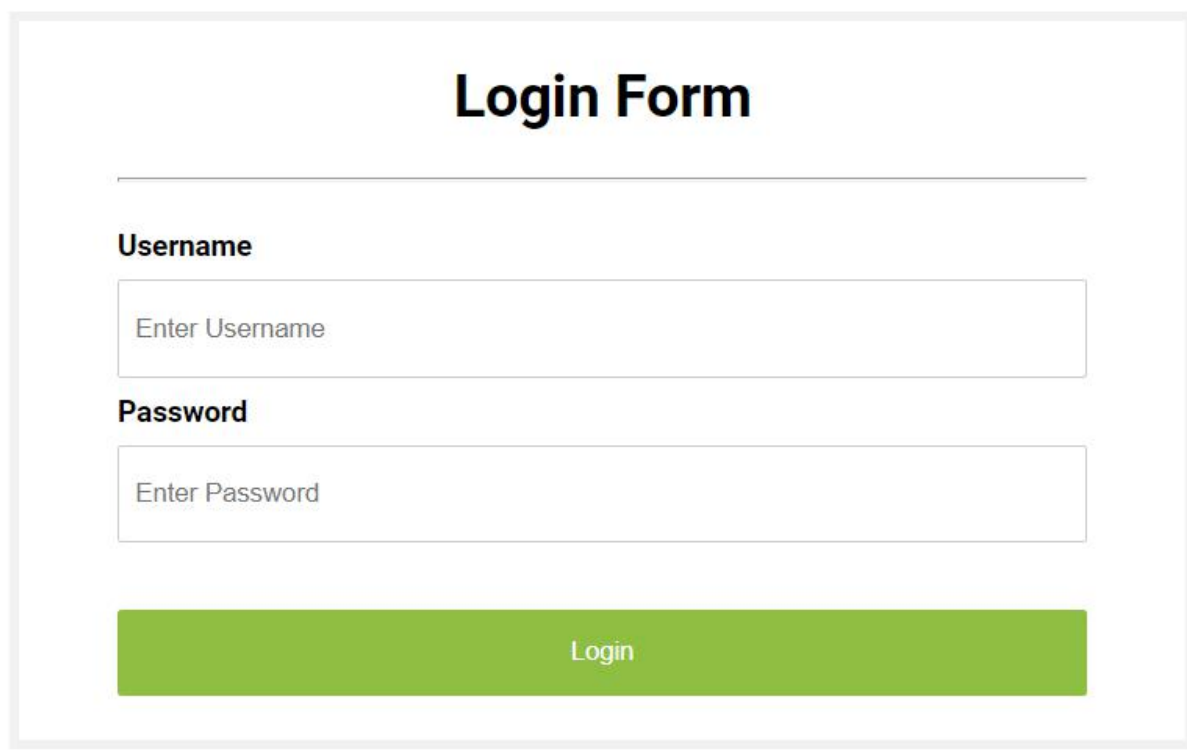
Roll Number:	<input type="text"/>
Fees:	<input type="text"/>
Hostel ID:	<input type="text"/>
Date:	<input type="text" value="dd-mm-yyyy"/> 
<input type="button" value="SUBMIT"/>	

On clicking this button the user would be directed to a page where user would be allowed to insert the mess record of students like fees, date of payment corresponding to their Roll Number and Hostel ID.

NOTE: In addition to the above functionality each page has been provided with a logout button

After Logout:

The user will be again redirected to the login page.



The image shows a login form titled "Login Form" in bold black text. Below the title is a horizontal line. Underneath the line, the label "Username" is followed by a text input field with the placeholder text "Enter Username". Below this, the label "Password" is followed by a text input field with the placeholder text "Enter Password". At the bottom of the form is a green rectangular button with the text "Login" in white.

This button allows the user to leave the current page and return to the initial login page from where he logged in.

REFERENCES

SQL Queries Database Systems – Silberschatz-korth and Shamkant B. Navathe

Resources for HTML/CSS:

<https://www.w3schools.com/>

References for PHP Forms:

<http://www.phpform.org/>

END

