OUTPASS MANAGEMENT SYSTEM

Prepared by

Harshit Kumar (211000022) - harshit21100@iiitnr.edu.in
B. Adnan Akhtar (211000014) - badnan21100@iiitnr.edu.in
Priyanshi Xess (211000039) - priyanshi21100@iiitnr.edu.in
Harsh Patel (211000021) - harsh21100@iiitnr.edu.in

Dr. Shyama Prasad Mukherjee
International Institute of Information Technology, Naya Raipur
(A Joint Initiative of Govt. of Chhattisgarh and NTPC)
Email: iiitnr@iiitnr.edu.in **Tel:** (0771)2474040 **Web:** www.iiitnr.ac.in

INTRODUCTION

Hostel outpass Management System is an idea inspired from the real world problem around us. It aids in resolving the outpass management mishandling. Hostelers in many residential colleges in India must obtain an outpass in order to leave the college premises. This is typically done physically using the old outdated pen and paper method, and it takes a lot of time because they must locate the warden at the appropriate time, stand in line, and then go through another process near the gate for security verification.

This particular project deals with the problems of managing outpasses and avoids the problems which occur when carried manually. Identification of the drawbacks of the existing system leads to the designing of a computerized system that will be compatible with the existing system with the system which is more user friendly and more website oriented. We can improve the efficiency of the system, thus overcoming the drawbacks of the existing system. Therefore, to address this, we developed a solution that is simple, saves time, and maintains accurate data.

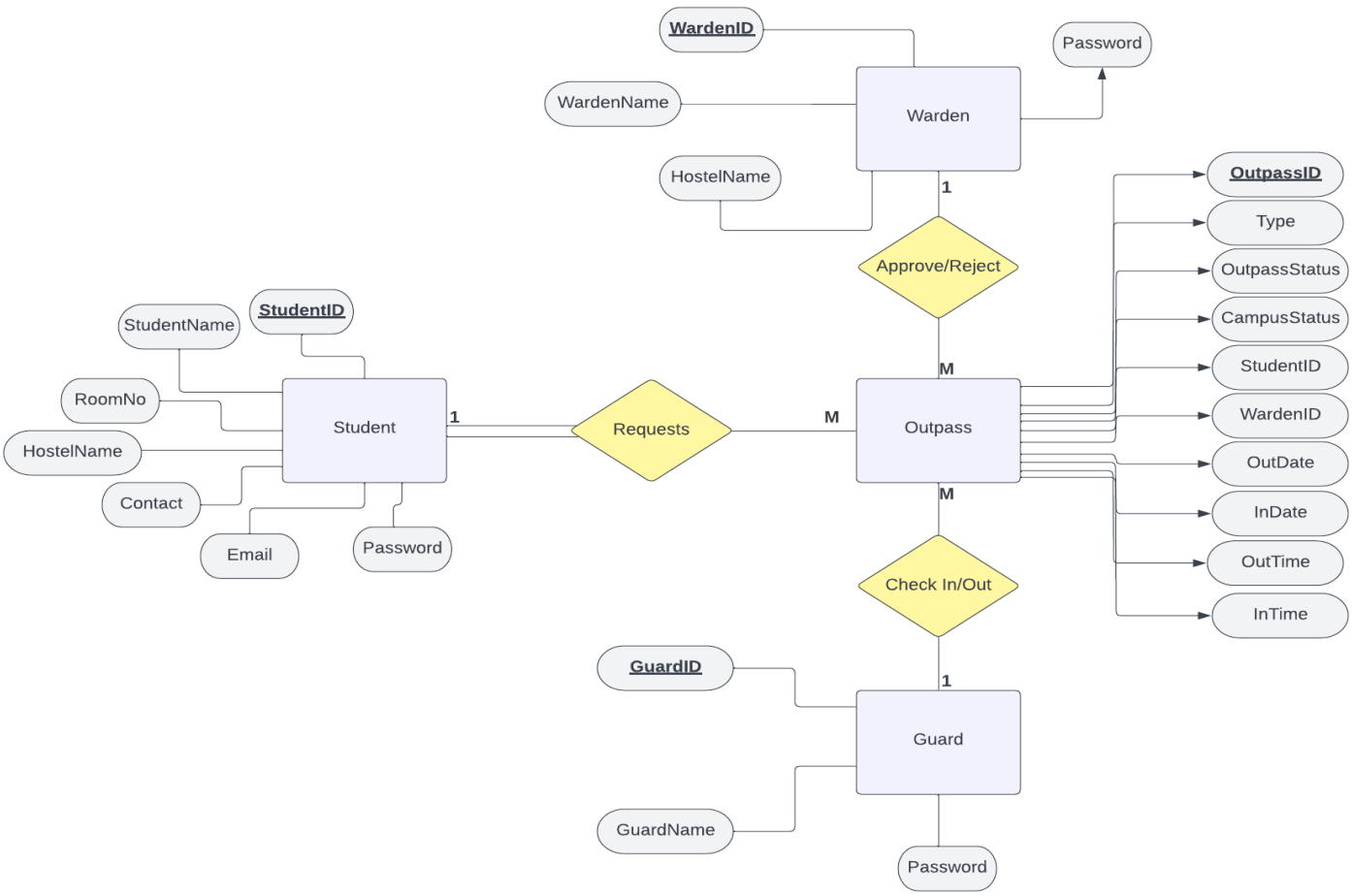
Description

In the first, the website will be taken to the login page where the student will enter his/her login details. After that, a student form will be presented which will require to add more details .Here as the details will be filled a request will be sent to the warden. Now the warden first needs to login and he will get the option to either accept or decline the request. If the request is accepted then it will be reflected in the history panel.

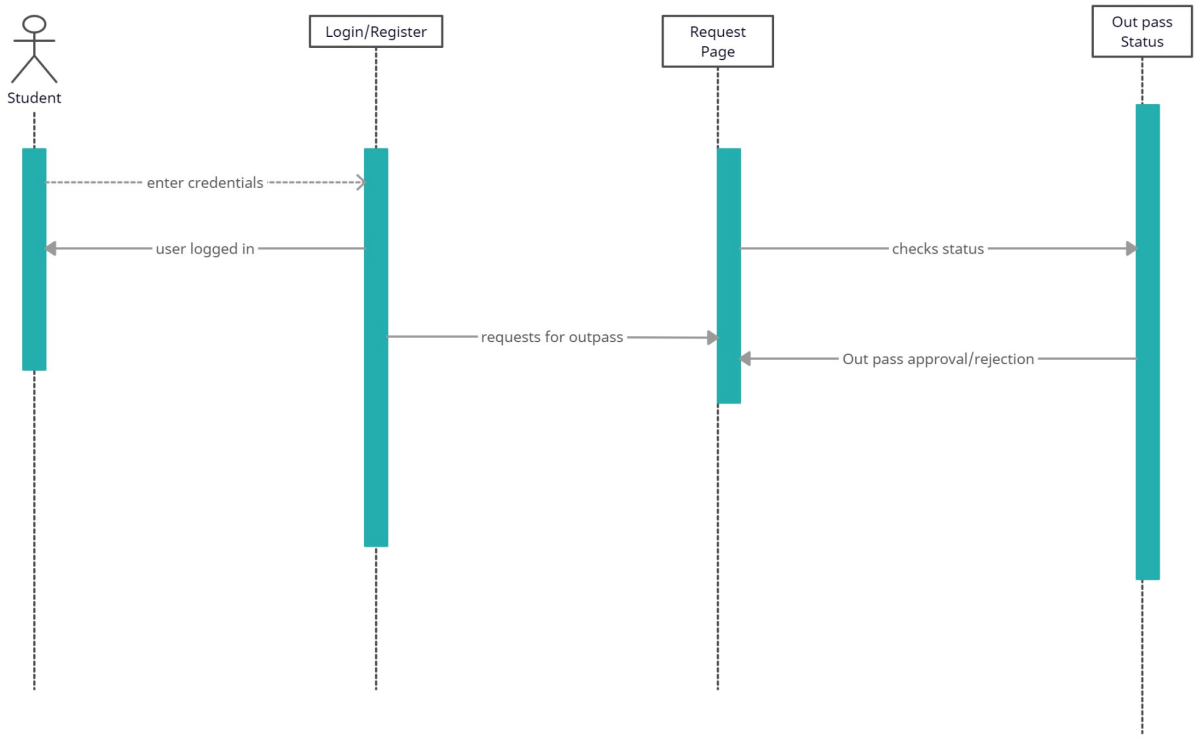
Implementation

1. Design and create the database in MySQL:
    - Start by planning the structure of the database and defining the relationships between tables.
    - Use SQL commands to create tables, specify fields, and set up relationships.
    - Populate the tables with sample data to test your database.
2. Set up the PHP environment:
    - Install WAMPSERVER64 on your computer or a remote server.
    - Create a new PHP project and configure the database connection settings.
3. Design the user interface:
    - Create HTML pages to display the forms and tables that users will interact with.
    - Use CSS to style the pages and make them visually appealing.
4. Write PHP code to interact with the database:
    - Use PHP to retrieve data from the database and display it on the front-end.
    - Write PHP functions to handle CRUD (Create, Read, Update, Delete) operations.
    - Use PHP to validate user inputs and prevent SQL injection attacks.
2. Test the application:
3. Test the application thoroughly to ensure that it works as expected and that there are no bugs.
4. Make any necessary fixes or improvements.

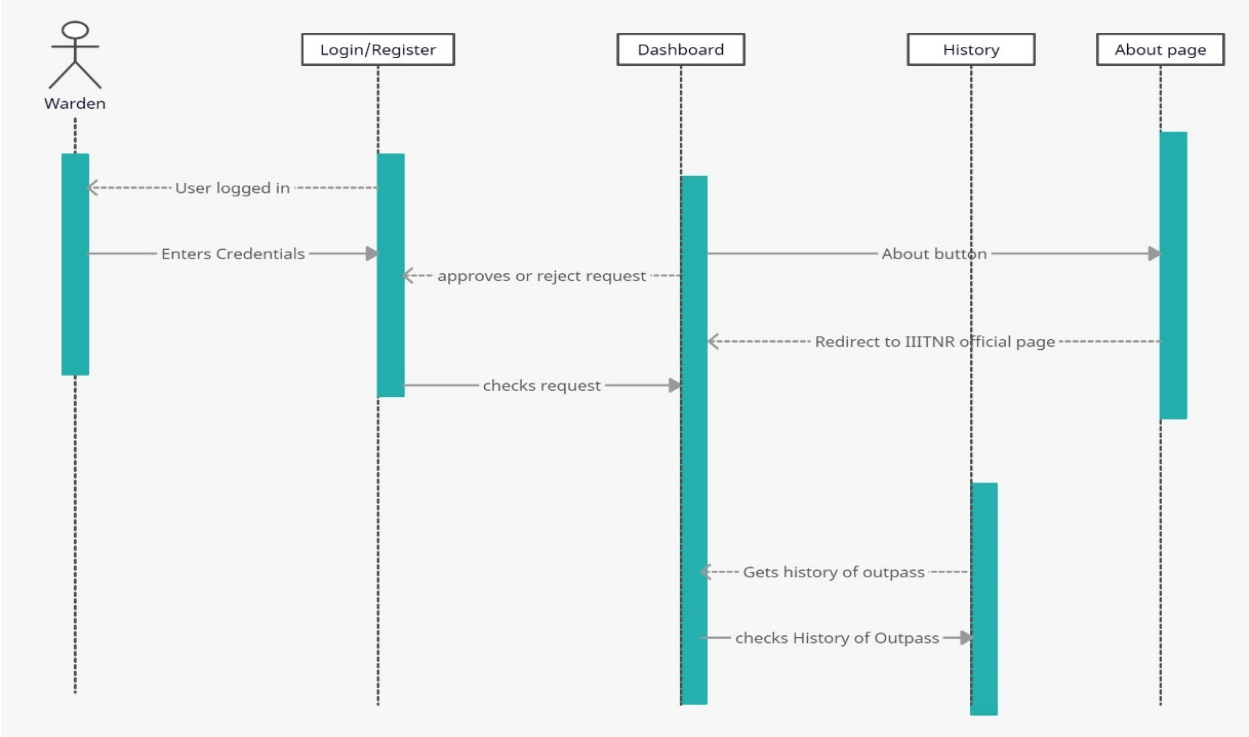
E-R-DIAGRAM


WardenID
Password
WardenName
Warden
HostelName
1
OutpassID
Type
Approve/Reject
OutpassStatus
CampusStatus
StudentName
StudentID
StudentID
RoomNo
Student
1
Requests
M
Outpass
WardenID
HostelName
OutDate
M
Contact
InDate
Email
Password
Check In/Out
OutTime
InTime
GuardID
1
Guard
GuardName
Password

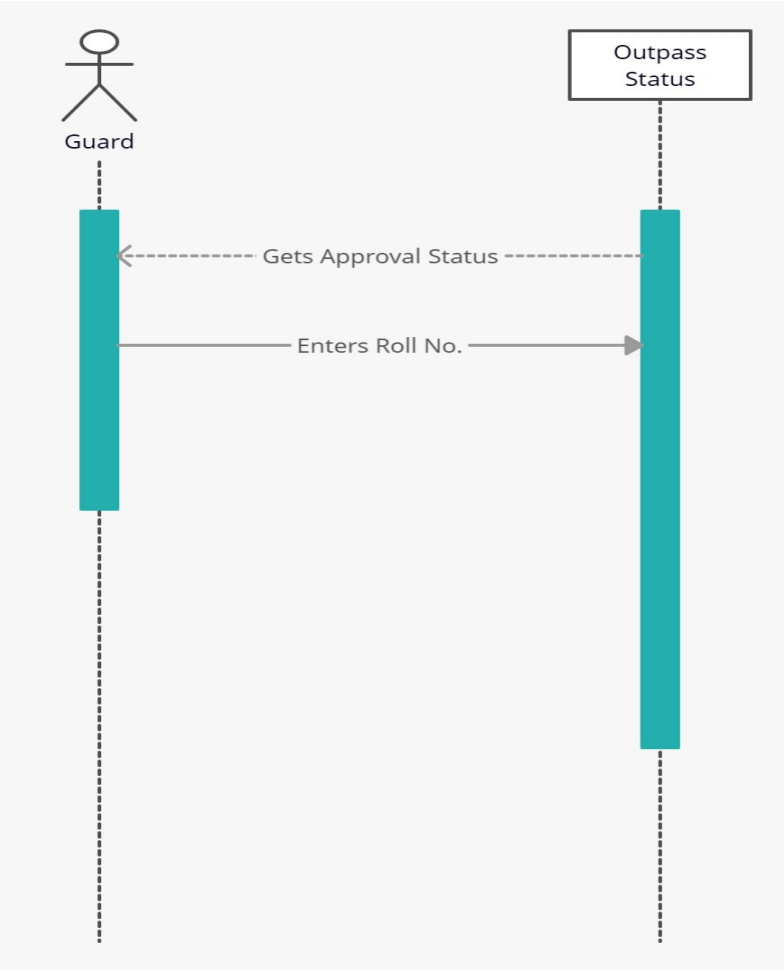
Sequence Diagram
For Student :



For Warden :



For Guard :



Softwares Used

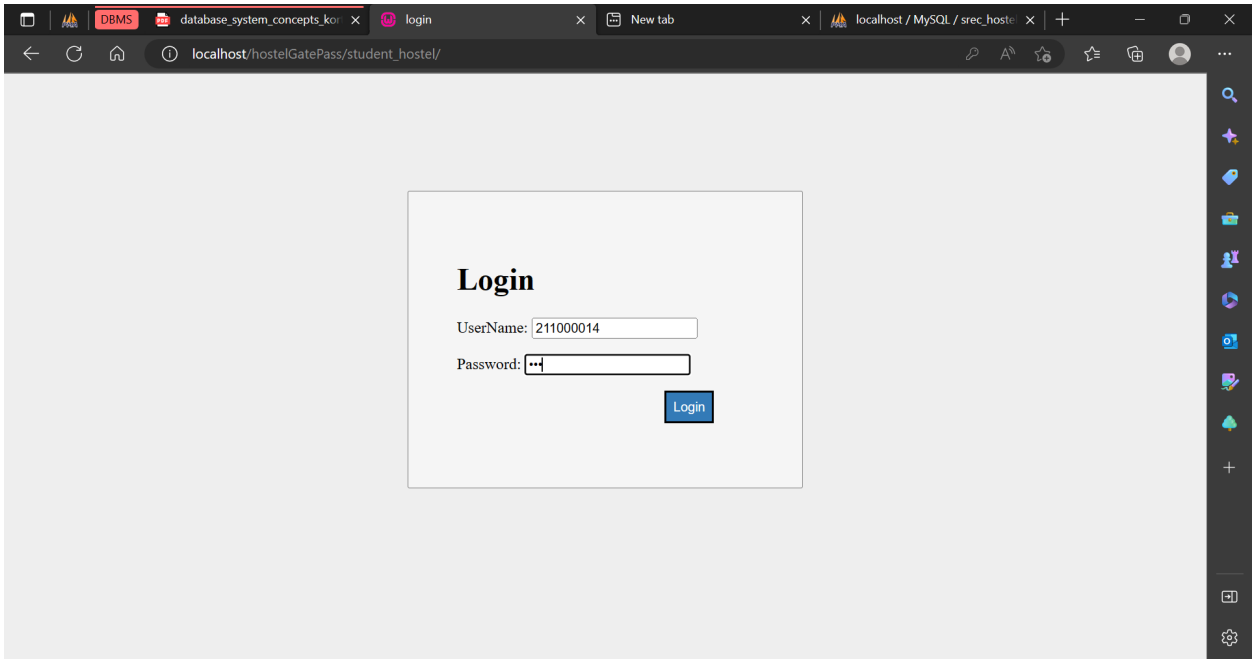
1. **WampServer** - WampServer is a free, open source web development environment for Windows that provides support for Apache, PHP, and MySQL. It is an all-in-one package for Windows that provides a convenient way for developers to install and configure a web development environment on their local machine.
2. **MySqlConnect** - MySQL Connect is a set of APIs for connecting to the MySQL database server. It provides a standard way for applications written in various programming languages to access data stored in a MySQL database. These APIs allow developers to connect to a database, execute SQL statements, retrieve results, and handle errors, among other tasks. MySQL Connect is available for a variety of programming languages, including C, C++, Java, Perl, Python, and PHP.

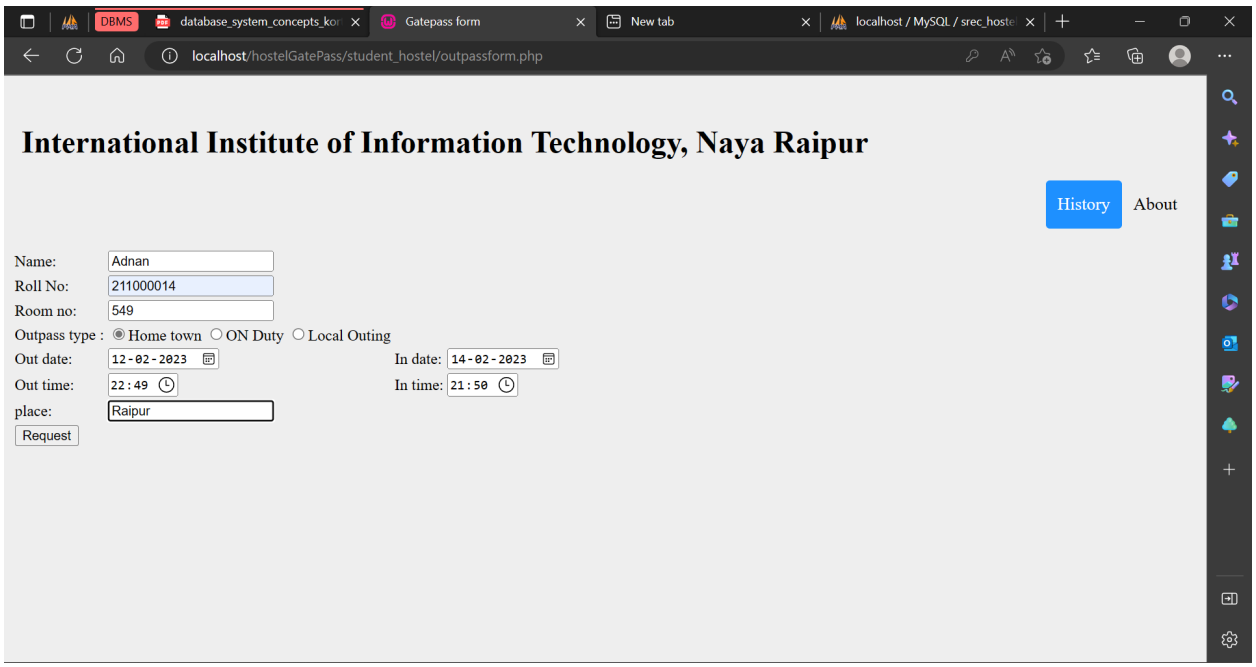
3. **PHP** - PHP is an open-source language, which means that it is free to use and can be modified to meet specific needs. It runs on the server and generates HTML that is sent to the client, making it a popular choice for creating dynamic web content.Some of the key features of PHP include the ability to interact with databases, such as MySQL, and the ability to create and process forms.

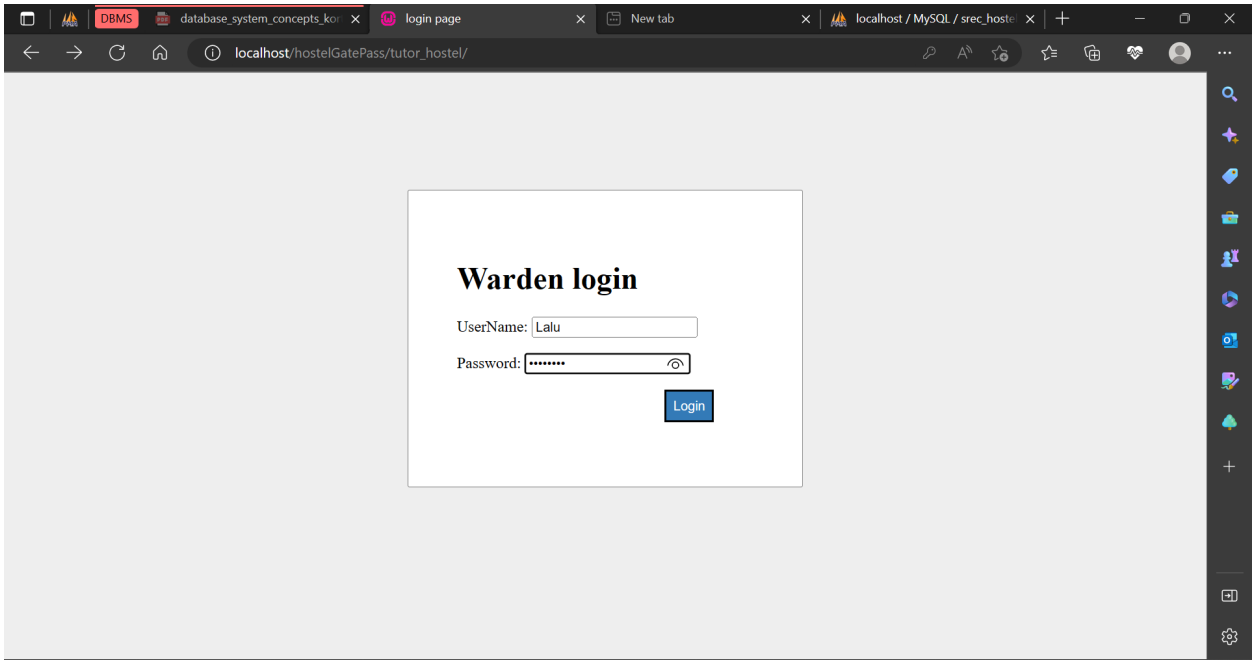
Why we shifted from NodeJS to PHP?

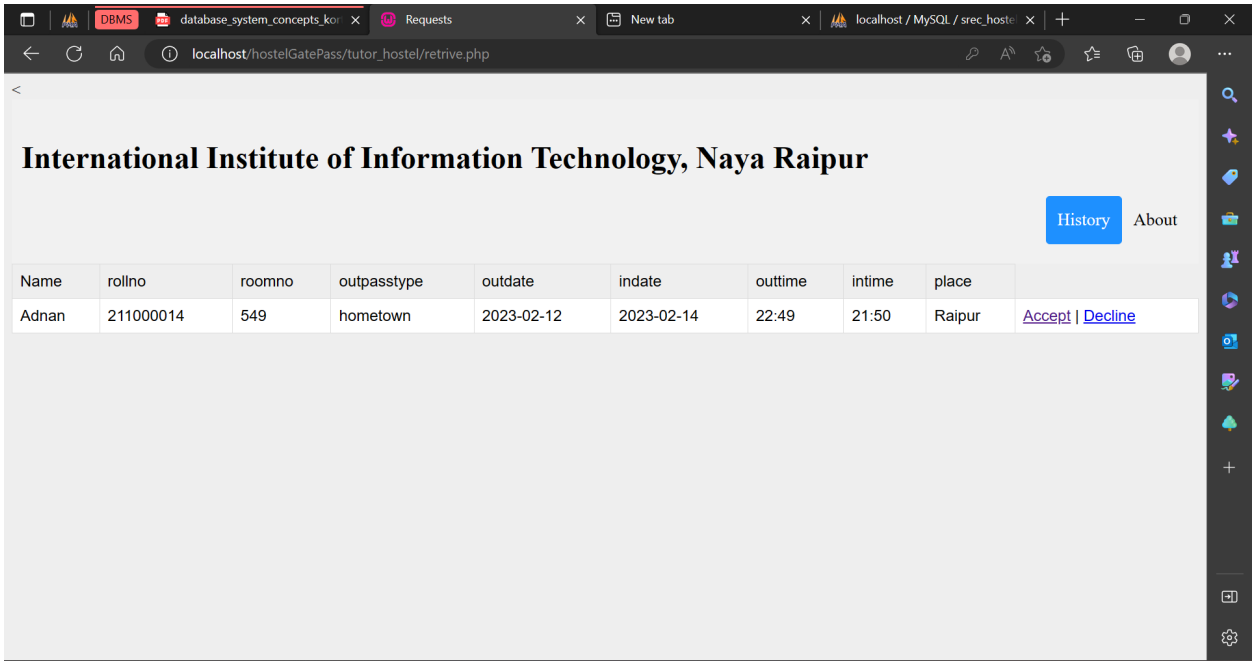
While creating a project in NodeJS, large number of libraries has to be imported even for basic minor tasks. Due to lack of time we focused on database management part rather than focusing on Web Development part.

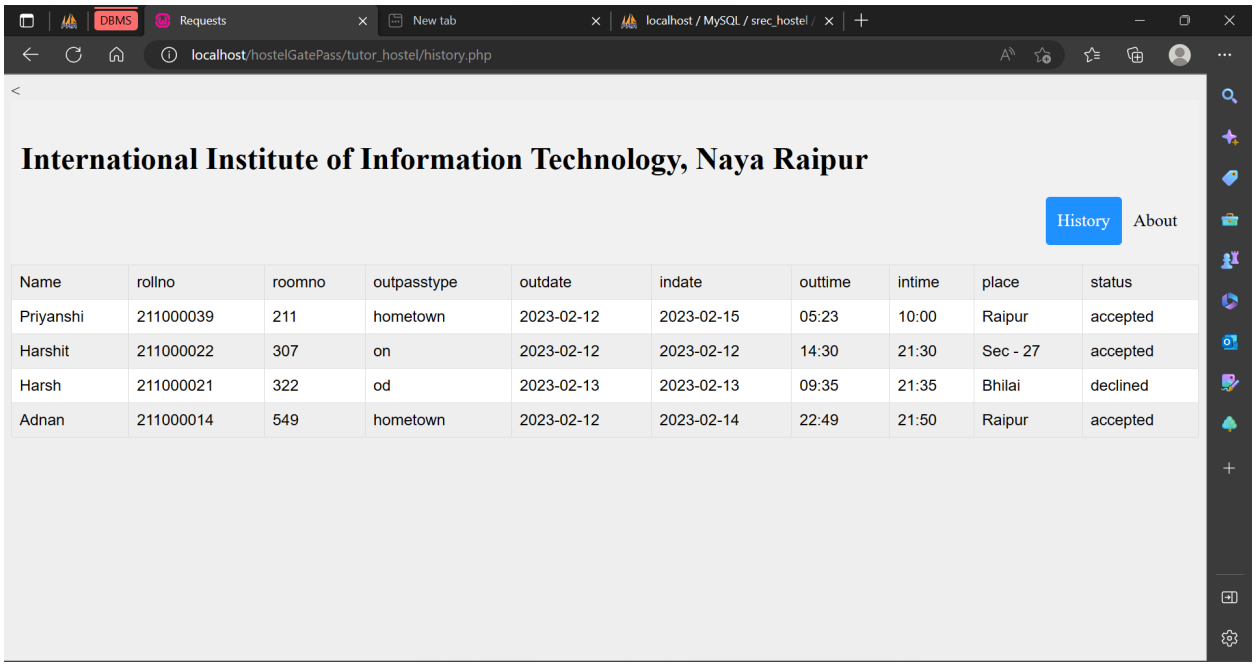
Screenshots



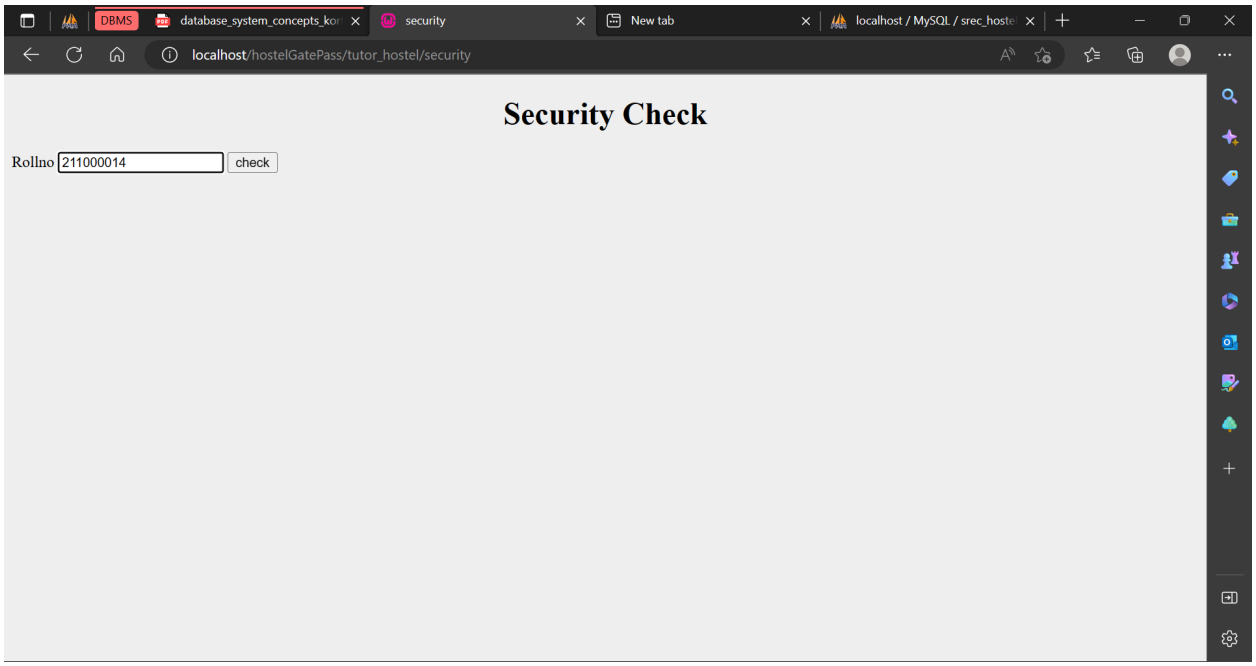


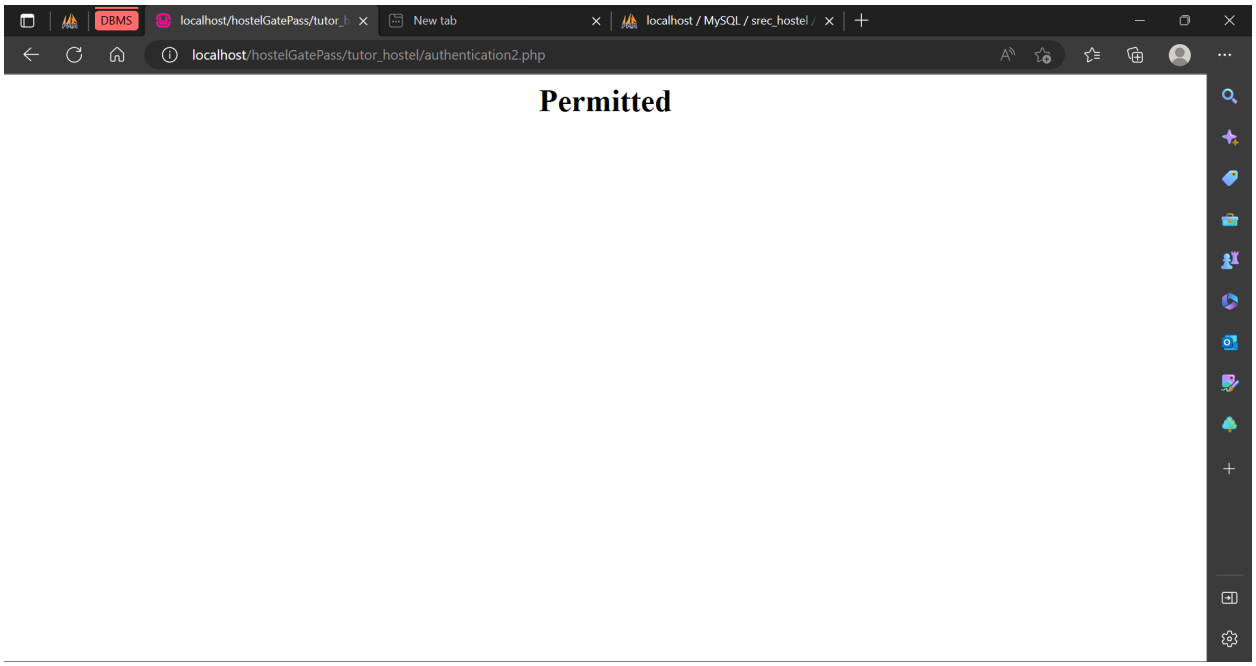

DBMS
database_system_concepts_ko
login page
New tab
localhost / MySQL / srec_hoste
localhost/hostelGatePass/tutor_hostel/
Warden login
UserName: Lalu
Password: ••••••••
Login


DBMS
database_system_concepts_ko
Requests
New tab
localhost / MySQL / srec_hoste
localhost/hostelGatePass/tutor_hostel/retrive.php
International Institute of Information Technology, Naya Raipur
History
About
Name rollno roomno outpasstype outdate indate outtime intime place
Adnan 211000014 549 hometown 2023-02-12 2023-02-14 22:49 21:50 Raipur Accept | Decline



Name	rollno	roomno	outpasstype	outdate	indate	outtime	intime	place	status
Priyanshi	211000039	211	hometown	2023-02-12	2023-02-15	05:23	10:00	Raipur	accepted
Harshit	211000022	307	on	2023-02-12	2023-02-12	14:30	21:30	Sec - 27	accepted
Harsh	211000021	322	od	2023-02-13	2023-02-13	09:35	21:35	Bhilai	declined
Adnan	211000014	549	hometown	2023-02-12	2023-02-14	22:49	21:50	Raipur	accepted




DBMS
localhost/hostelGatePass/tutor_
New tab
localhost / MySQL / srec_hostel
localhost/hostelGatePass/tutor_hostel/authentication2.php
Permitted