

ARTIFICIAL INTELLIGENCE

CS2005 DATABASE SYSTEMS

POINTS' SERVICE APPLICATION

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SECTION: BAI-5A

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INTRODUCTION

Transport plays a very important role in driving economic and regional growth as it is closely linked to community activities. Therefore, transportation system implementation must be carried out effectively and efficiently. This means high accessibility, ample capacity, smooth, quick, easy accessibility and affordable rates. However, if you look closely, almost all cities in Pakistan have problems with traffic, especially public transport.

Points Service Application will be developed to automate transport services in university in order to facilitate students with their convenience.

OBJECTIVE

- Even non-technical users can use the system effectively and effortlessly.
- Upgradable. Further improvements of the system are therefore possible.
- System maintains speed and accuracy.

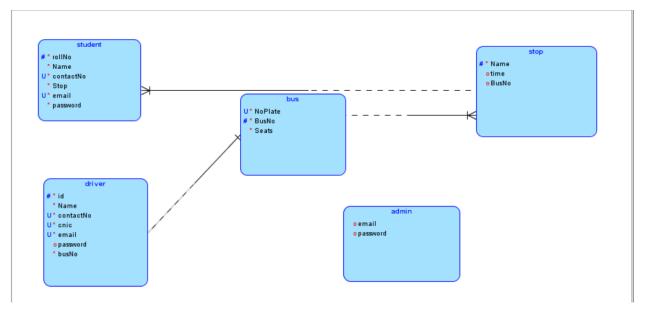
TOOLS AND TECHNOLOGIES

• Frontend: HTML, CSS, Javascript

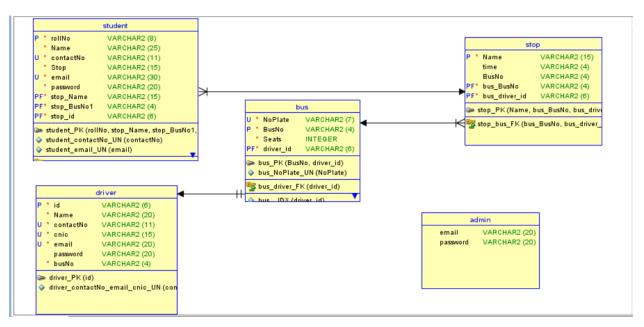
• Backend: Php

• Database: My SQL

ENTITY RELATIONSHIP DIAGRAM



Logical Model



Relational Model

FEATURES

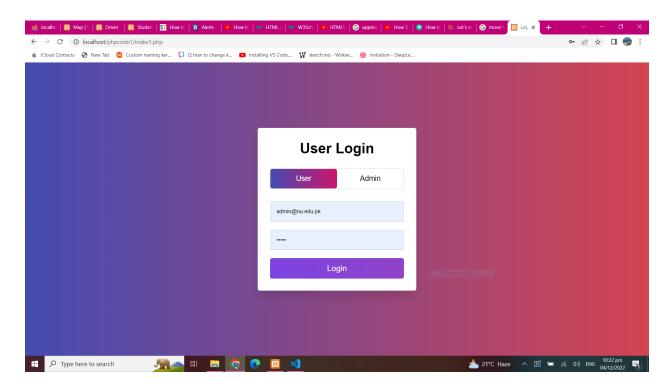
- 1. Login: Login as an Admin (Transport In-charge) or User (Student/Driver) in order to avail the facility.
- 2. Admin/Transport In-charge: In-charge is the purchaser of the software.
 - The in-charge must be given all privileges.
 - He should be able to manipulate all the records.
 - No other entity must be given the rights to update or insert new data.
 - Information related to each entity must be listed very properly.
 - Admin can view drivers of corresponding buses.
 - Admin can view the route of a particular bus.
 - Admin can view the number of students on a particular stop.
 - Search option available in order to update/delete any entity.
- 3. Students: Students are the users of the software.
 - Students must be able to track their points.
 - In case if they missed their points, they should alert drivers of the upcoming buses in their routes that they will hop on to that respective bus.
 - Students should be given access to view the contact number of drivers.
 - Students should also be able to see the Number plate of the bus for identification purposes.
- 4. Drivers: Drivers are also the users of the software.
 - Drivers can share live locations once the bus starts.
 - Drivers should be alerted if they have to stop the bus at any location which is not mentioned in their predetermined list of stops.
- 5. Other functionalities: Triggers are implemented in the program to handle the capacity of the bus if a new student avails the transport service or withdraws from it.

IMPLEMENTATION AND TESTING

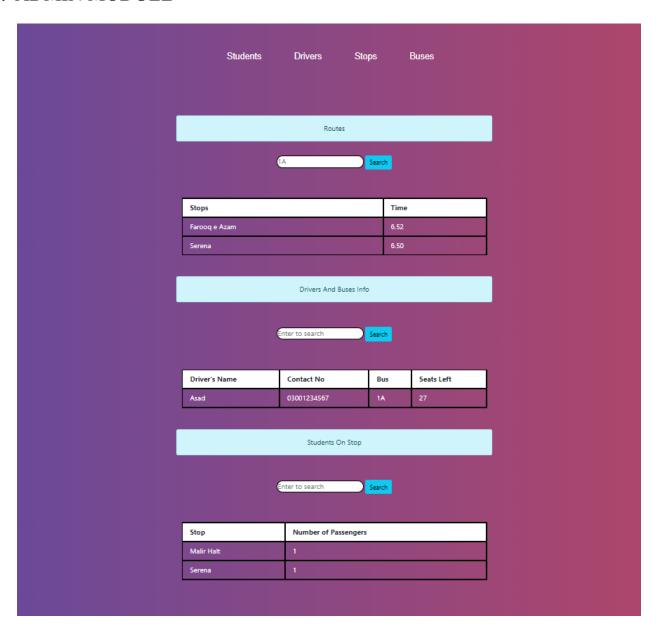
1. DATABASE



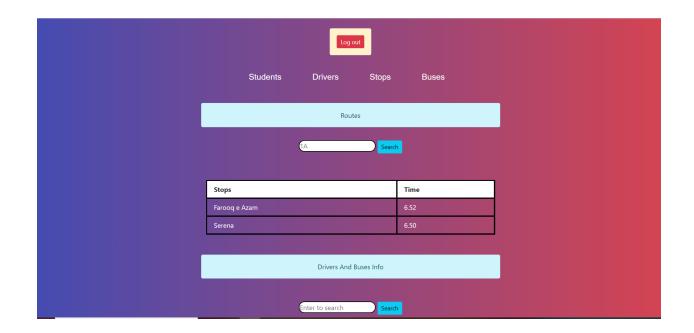
2. LOGIN PAGE



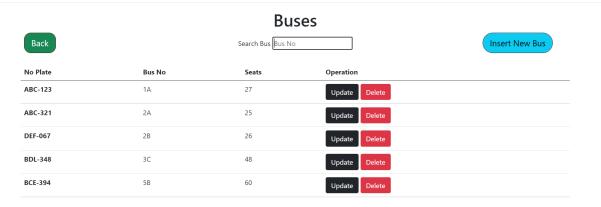
3. ADMIN MODULE



After successful login



BUS MODULE



View, update or delete bus details

INSERT NEW BUS



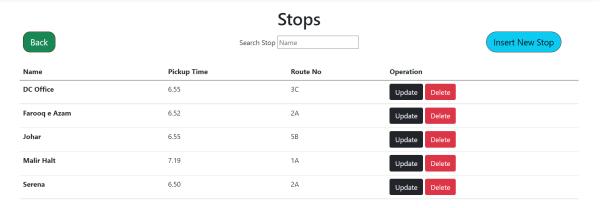
Inserting new bus

DRIVER MODULE

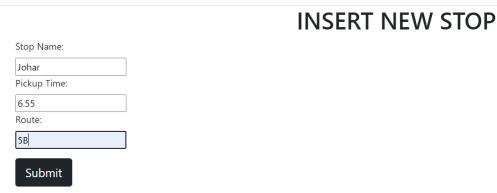


View, insert, update or delete driver details

STOP MODULE



View, update or delete stop details



Inserting a new stop

STUDENT MODULE



View, update or delete student details

INSERT NEW STUDENT



Inserting a new student



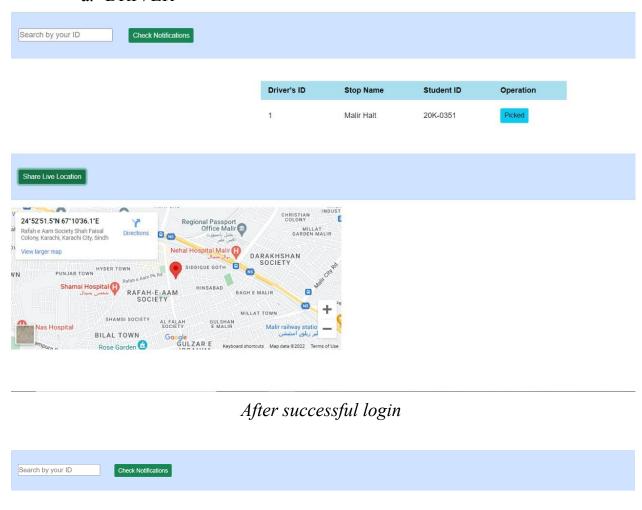
Searching student's record

Student Name:
Mannahil Miftah
Roll No:
20K-0234
Contact No:
3145327822
Stop:
Serena
Email Address:
k200234@nu.edu.pk
Password:
•••••
Update

Updating student's record

4. USER MODULE

a. DRIVER

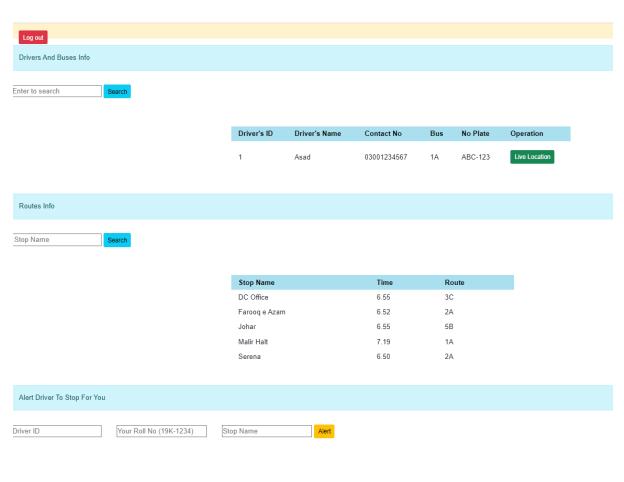


Driver to stop the bus at these places which are not mentioned in his route

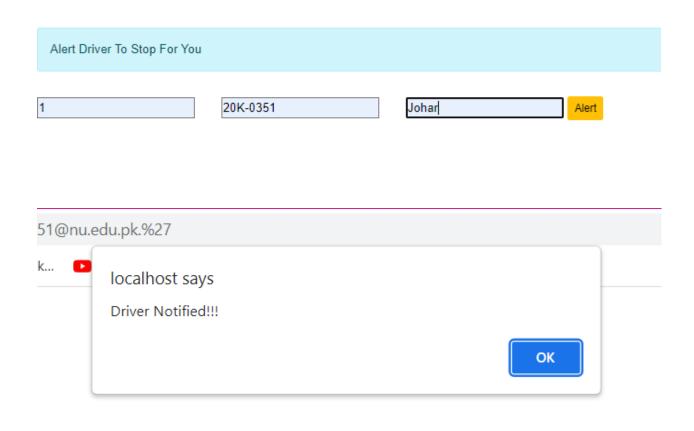
Stop Name

Driver's ID

b. STUDENT



After successful login



Alerting Driver

CONCLUSION

The main purpose of making this project is to make the work easier and less time consuming. With the help of this project, the data can be stored, retrieved and updated easily. We found ourselves much evolved at the end as far as the database concepts are concerned.