Database Systems

Pool-Up

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CONTENTS OF THIS PRESENTATION

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Here's what you'll find in this **Presentation**:

- A detailed explanation of our problem and the solution.
- Entity Relationship Diagram (ERD).
- A working demo of our Project.
- Foresight after completing this project.
- Individual Contribution of each member of the group.
- Lastly, the challenges we have faced in this project.

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01.
Problem Explanation

What is Pool-Up?

POOL UP IS AN APP THAT CONNECTS STUDENTS WHO WANT TO SHARE RIDES.

What are we doing and Why are we doing it?

We are implementing a car pooling automatic management system that would keep a record of different students wanting to carpool and assign them with their fellow students Habib Community

PROBLEM EXPLANATION

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What are we doing and Why are we doing it?

Although is not much, but we considered that since students will be using our platform for car pooling, It can also contribute to helping the environment as one vehicle will now be used between more students, so can reduce carbon emissions per student too.

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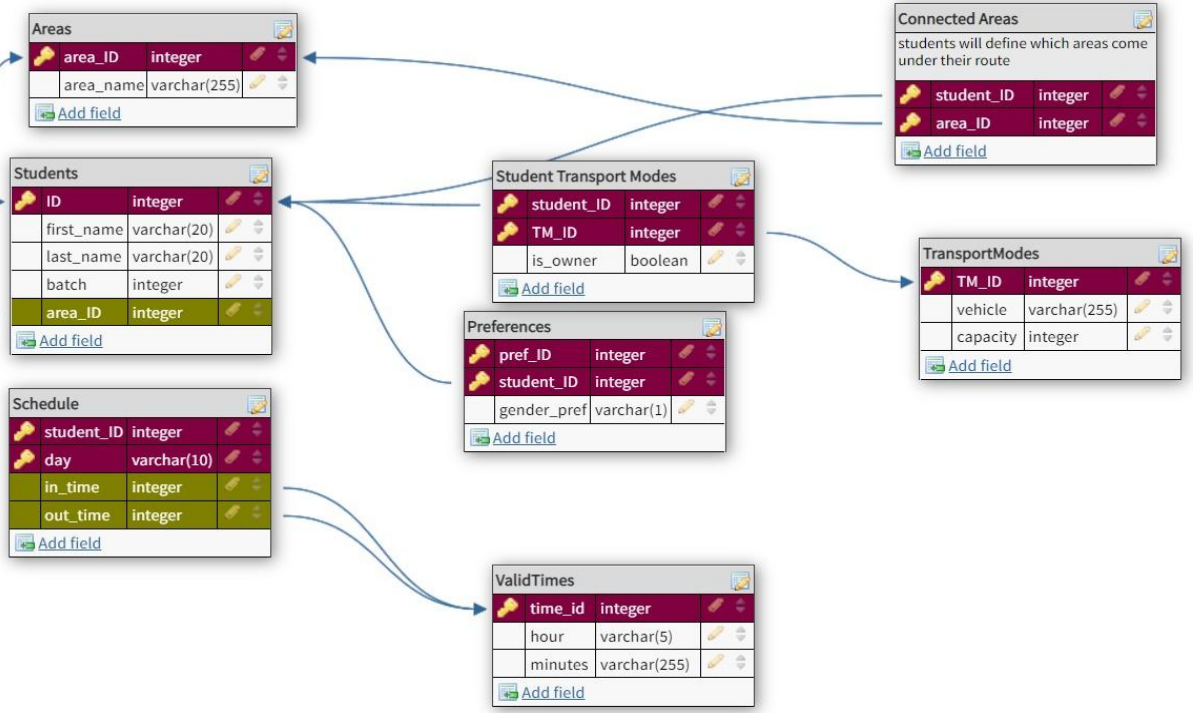
02.
Entity Relationship Diagram (ERD)

Final ERD


Areas
area_ID integer
area_name varchar(255)
Add field
Connected Areas
students will define which areas come under their route
student_ID integer
area_ID integer
Add field
Students
ID integer
first_name varchar(20)
last_name varchar(20)
batch integer
area_ID integer
Add field
Student Transport Modes
student_ID integer
TM_ID integer
is_owner boolean
Add field
TransportModes
TM_ID integer
vehicle varchar(255)
capacity integer
Add field
Preferences
pref_ID integer
student_ID integer
gender_pref varchar(1)
Add field
Schedule
student_ID integer
day varchar(10)
in_time integer
out_time integer
Add field
ValidTimes
time_id integer
hour varchar(5)
minutes varchar(255)
Add field

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03.

Project Working Demo

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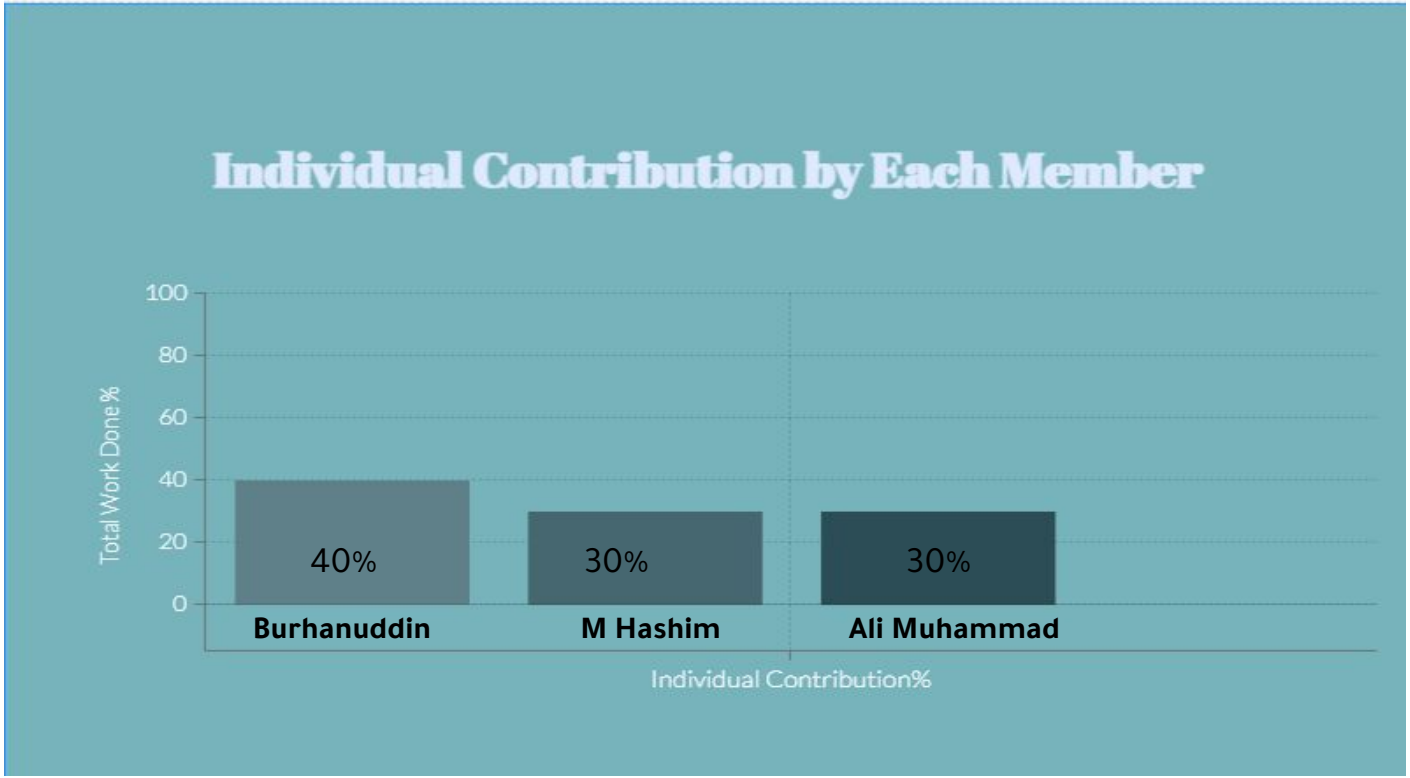
Individual Contribution

INDIVIDUAL CONTRIBUTION IN GRAPH



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iNDIVIDUAL CONTRIBUTION

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Breakdown of Individual Contribution

Burhanudin

- Gave the main idea and Proposal.
- Creating ERD
- Implementing SQL Queries on back end.
- Guiding other members.

M Hashim

- Windows Forms Apps and Front End.
- Collecting and Managing Data.
- Implementing SQL Queries on back end.

Ali Muhammad

- Windows Forms App and Front End.
- Implementing SQL Queries.
- Project reports and presentation.

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FUTURE PLAN

FUTURE PLAN

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We plan to create a proper mainstream platform such as web application.

We plan to practically implement our system for the entire Habib Community.

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05.
Challenges

CHALLENGES

Challenges we have faced:

- Time Management.
- Debugging problems.
- Generating a sample database.

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THANKS!

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