EXCALIBUR

TECHSPARDHA 24

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# TEAM NAME : BYTE KARMA

## DETAILS OF TEAM MEMBERS :-

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## PROBLEM STATEMENT :-

*Transportation in Kurukshetra* presents a unique challenge for college students. Unlike many other regions, the absence of ride-hailing services like Ola and Uber means relying on auto-rickshaws. Unfortunately, booking an auto often requires renting the entire vehicle, making short trips financially cumbersome.

Furthermore, coordinating travel with friends proves difficult. Often, schedules don't align, leaving students struggling to find companions for their commutes. This scenario translates to frequent solitary journeys, which are not only inconvenient but also potentially less secure.

Addressing this need is the heart of our project. We envision a platform that connects students with shared travel needs. By seamlessly matching individuals heading in the same direction, we aim to transform the daily commute from an individual struggle into a shared, convenient, and cost-effective experience.

## SOLUTION :-

**1.User Registration and Authentication:**

Enable users (both students and auto drivers) to create accounts securely.

Implement authentication mechanisms to ensure the privacy and security of user data.

**2.Ride Posting and Searching:**

Enable students to post ride requests, specifying their destination, departure time, and any preferences they may have.

Provide a search functionality for users to find available rides based on their own travel plans and preferences.

**3.Smart Matching Algorithm:**

Develop an algorithm that intelligently matches students with similar travel plans, considering factors such as destination, departure time.

**4.Review and Rating System:**

Allow users to leave reviews and ratings for each other after completing a ride, helping to build trust and reliability within the community.

**5.Feedback and Improvement:**

Gather feedback from users to identify areas for improvement and refine the software's functionality.

Continuously update and enhance the software based on user suggestions and technological advancements.

**6.Real-Time Communication:**

Integrate messaging or chat features to facilitate real-time communication between users (students and auto drivers), allowing them to coordinate ride details and address any concerns.

## POTENTIAL USE CASES :-

***->College Commute Coordination:***

Facilitating ridesharing among students traveling to and from campus, reducing transportation costs and carbon emissions.

***->Future Scope:***

Expansion to Other Institutions: Scaling the platform to serve multiple colleges or universities within the region, broadening its user base and impact.

***->Monetization Opportunities:***

Exploring revenue streams such as targeted advertising, premium features for users, or partnerships with local businesses and service providers.

***->Geographical Expansion:***

We can extend the platform to cover additional campuses and educational institutions. Collaborating with more universities and colleges to create a widespread network, offering seamless commuting solutions for students across various regions.

## TECH STACK :-

* PHP
* JavaScript
* HTML
* XML
* CSS
* DBMS
* SQL

## FLOW CHART :-

A diagram of a system

Description automatically generated