

# **Ride With Sandipian's**

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#### Abstract -

The "Ride with Sandipan" project is intended to fulfill a necessary requirement for efficient transportation options for students who lack personal vehicles. Students in most urban centers encounter immense difficulties while commuting to schools, resulting in lateness and reduced academic performance. The project seeks to provide an easy-to-use mobile app that enables students to share rides. Through matching individuals who need ride-sharing with students who are willing to give rides, the service not only solves the issue of a lack of transportation options but also creates a sense of community and cooperation between peers.

#### **Key Words:**

• Frontend: HTML, CSS, JavaScript for an easy-to-use user interface.

• Backend: Java Servlets and JSP for managing ride logic and database interactions

• Database: MySQL for securely storing ride requests, user profiles, and payment information.

• Server: XAMPP (Apache) to host and execute the system.

\* Corresponding author. Tel.: +0-000-000-0000 ; fax: +0-000-000-0000. E-mail address: author@institute.xxx 2 International Journal of Research Publication and Reviews Vol () Issue () (2021) Page 000 • Frontend: HTML, CSS, JavaScript to provide an easy-to-use interface.

## **1.INTRODUCTION**

The introduction part will discuss the background of student transport in more detail. It will discuss typical problems that students encounter. such as: Unavailability: Poor public transportation facilities tend to result in long waiting times and lost classes. Most students reside off-campus and rely heavily on transportation services to travel on a daily basis. Safety Issues: Safety is the top priority for students, especially when traveling at late hours. Conventional ride-hailing services might not offer the degree of assurance that students require. Cost-effectiveness: Students are on stringent budgets and need economical transportation methods that don't compromise quality or safety. The "Ride with Sandipan" program fills these loopholes by tapping into technology for creating a secure, efficient, and economical transport method especially tailored for students. Through shared rides between classmates, the project encourages communal activity and builds a mutual support network of students.

## **2. LITERATURE SURVEY**

Student Transportation Challenges Many research studies show that transportation is a strong challenge for students, especially in urban areas with high population density. According to a survey by the National Student Transportation Association, it was revealed that almost 40% of students faced challenges in accessing reliable transportation. Major points to note: Accessibility Issues: Most public transportation routes are not particularly designed for the special needs of students and thus leave them stranded or forced to take long detours to get to their destinations.

#### Applications:

like Uber and Lyft have proven the success of app-based ride hailing. Yet, these apps do not necessarily cater to the specific needs of students. Peer-to-Peer Solutions: Students are found to prefer traveling with peers they know or are friends with, building trust and security during travel. Safety Features: Recent research highlights the significance of in-app safety measures like ride tracking, emergency contact facilities, and reviews from other users to increase user trust. Fig. 1 - (a) first image; (b) second image.

## 3. SYSTEM ARCHITECHTURE AND METHODOLOGY

## System Development

The Ride with Sandipan application is a web ridesharing system designed for students. It utilizes contemporary web technologies to provide smooth, secure, and effective journeys. • Backend: Java Servlets and JSP for implementing ride logic and database interactions • Database: MySQL for securely storing ride requests, user profiles, and payment records. • Server: XAMPP (Apache) for hosting and running the system. • Admin Dashboard: A centralized panel for

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approving ride providers, tracking rides, and managing user accounts.

#### Workflow

• Smart Registration & Login – Students register with verified credentials to ensure a trusted user base.

• Instant Ride Match – Riders simply request a ride, and the system smarts to match them with on-duty student drivers.

• Drivers Verified Only – For safety purposes, only authorized and verified students can provide rides.

• Live Ride Updates – The system gives real-time updates of the ride status to both the riders and the drivers.

• One-Tap Booking & Confirmation – Users confirm with a single tap rides and get automated confirmations.

• Transparent Fare Estimation – The fair ride cost is calculated before booking.

• Admin Oversight for Trust & Safety – All rides are tracked to provide a safe commute.

• Automated Alerts & Notifications – Riders and drivers get real-time updates for ride schedules, arrival, and modifications. Scalability & Future Enhancements

• Mobile App Launch – Launching an Android/iOS app for even greater usability.

• Available For More Institute – Provide this facility to more Institute in Nashik Proposed System:

• Smart Ride Matching: Matches riders with verified student drivers in real time.

• Live GPS Tracking: View your ride status and estimated arrival time instantly.

• Verified & Trusted Drivers: Only authorized students can provide rides.

• Real-Time Ride Confirmations: Be informed through email/SMS for every ride booking.

• Effortless Payments & Fare Estimation: Find out the fare in advance, as it is determined by the driver.

• Admin Management: Maintains an eye on ride logs, user activity, and total system transparency.

System Design -

• User Module – Profile generation, ride booking, and trip history.

• Ride Management Module – Manages ride requests, driver availability, and real-time tracking.

• Driver Module – Enables drivers to handle ride requests, schedules, and earnings.

• Admin Dashboard – A central command for user authentication, ride tracking, and system security.

• Notification System – Automated email/SMS notifications for ride status and critical alerts. Problem

Statement: Commuting to college is still a daily struggle for students because of:

• Unreliable ride options – Public transport is inconvenient, and private cabs are costly.

• No real-time monitoring – Students have no way of anticipating delays or monitoring ride availability.

• Inadequate safety features – There is no mechanism to verify the credibility of ride providers. International Journal of Research Publication and Reviews Vol () Issue () (2021) Page 000

#### **Proposed system**

The project will give a cost-efficient, safe, and easy ridesharing experience to students who do not have personal means of transportation to get to college. It links students who own vehicles with students who require a ride so that there is an effective and community-based system of transportation. During their way to college, students can choose or alter their pickup point. When going home, the pickup is set at the college but the destination is variable. The college is the last stop, providing uniformity in planning rides. The service is cheaper than commercial ride-sharing apps.

#### System Design

1. User Roles

The platform supports three user roles: Student (User), Driver, and Admin.

- 2. **Ride Booking & Scheduling** Students can easily book and schedule rides according to their class times and preferences.
- 3. Admin Approval & Verification The platform utilizes an admin approval process to ensure user verification and safety.
- 4. User Feedback & Trip History The system allows users to provide feedback and track their ride history for transparency and accountability.

#### **Use Case Diagram**



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## DFD Diagram (Level 0)



DFD Diagram (Level 1)



**Result Analysis** 



## **Problem Statement**

- Challenge: Many Students are struggled to trich their collage but some times the buses and other services are unavailable then our project will helpful to students
- Solution: we just try to give fair, affordable ride to students to their collage time its simple app which make easy to students to travel to their home to collage
- Impact: improve the students rich time and affordability for students.

## DISCUSSION

The Ride with Sandipan system simplifies college transport by offering a flexible and trustable ride-sharing solution. In comparison with the normal cab services, this system enables drivers to determine their own fares, thus rendering the service flexible to actual conditions and making it affordable to students. Payment is mostly done through cash, hence, the system dispenses with reliance on online payment gateways and provides a stress-free experience to both drivers and riders. One of the main benefits of this system is the smooth booking process where students can easily get a ride to college with little effort. The predetermined destination provides seamless operations, minimizing confusion in ride coordination. In addition, drivers enjoy full control over their prices, enabling fair and transparent transactions based on demand, route choices, or ridesharing. The automated updates on ride status supply real-time tracking, ensuring students are always informed about their driver's location. Unlike the conventional ridehailing apps with strict pricing formulas, this system promotes a community-based model, enhancing trust students and drivers. Furthermore, by between emphasizing cash payments, the system remains accessible, addressing students who are not always able to use digital means of payment. This also minimizes the chances of failed transactions, making the ride more convenient.

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## CONCLUSION

The Ride with Sandipan system transforms college commuting by providing a convenient, affordable, and community-based ride-sharing system. By enabling drivers to control their own fares and encouraging cash payments, the system provides an open and easy-to-use experience for both passengers and drivers. The fixed destination model streamlines trip coordination, making the service efficient and reliable for students. With realtime tracking of the ride, hassle-free booking, and student-focused methodology, this system not only improves daily transportation but also develops a network of trust amongst college students. By doing away with reliance on conventional fare systems and electronic payments, Ride with Sandipan offers a driverfocused alternative that addresses the true needs of the student. With expansion of the platform, there will be further improvements-such as route optimization, improved ride matching, and other safety features-can be included to improve convenience and reliability. All in all, Ride with Sandipan is a pragmatic, convenient, and effective solution that fills the void between students requiring transport and drivers willing to give it

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