WECONNECT APPLICATION

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ABSTRACT

WeConnect is a mobile application designed to enhance transportation accessibility for students and staff in UiTM campuses through a structured carpooling platform. The platform allows UiTM members who are travelling along similar routes within or around the campus to connect and share rides. This helps provide a more convenient and affordable transportation option for daily commuting. It also helps address common transportation issues faced by the UiTM community, especially when campus shuttle services are limited or when e-hailing services are expensive or difficult to get. Access to the platform is restricted to verified UiTM students and staff, which helps maintain safety and build trust among users. Furthermore, WeConnect helps reduce traffic congestion and parking problems within the campus area while encouraging more sustainable transportation practices. The platform also promotes ride coordination and communication between drivers and passengers. Overall, the platform encourages a more organized and reliable commuting experience within the campus community.

KEYWORDS: Carpooling; Mobile Application; Transportation Accessibility; UiTM Community

PROBLEM AND OBJECTIVE

The WeConnect application was designed to help UiTM students and staff to travel more conveniently and affordably. This app allows them to share rides and reduce commuting costs, offering an alternative to e-hailing services by connecting users who are going to the same destination. This is especially useful when campus transportation is limited or unavailable. To ensure safety, access is restricted to verified UiTM students and staff only. Furthermore, WeConnect helps to reduce traffic on campus, improves parking availability and encourages the use of more environmentally friendly ways of travelling.

DESIGN DESCRIPTION

WeConnect application begins with a login interface displaying the app logo and name, where users must enter their verification UiTM email and password to access the system, to ensure only authorized UiTM members can use the platform. The main features include Find a Ride and Offer a Ride. The Find a Ride feature allows passengers to search for available rides by entering the pickup location, destination and date. Whilst, the Offer a Ride feature allows drivers to provide ride details such as pickup location, destination, date, time, available seats, price per person (RM), vehicle type and additional notes for passengers. This application aims to provide a convenient

and affordable transportation option while improving ride coordination within the UiTM community.

VISUALS



Figure 1: Login Interface

Shows the secure login screen where users enter their UiTM email and password to access the WeConnect application. This ensures that only verified UiTM students and staff can use the platform.



Figure 2: Home Screen

Displays the main dashboard of the application, featuring key functions such as “Find a Ride” and “Offer a Ride”, along with quick access to chats, user profile, and upcoming rides.

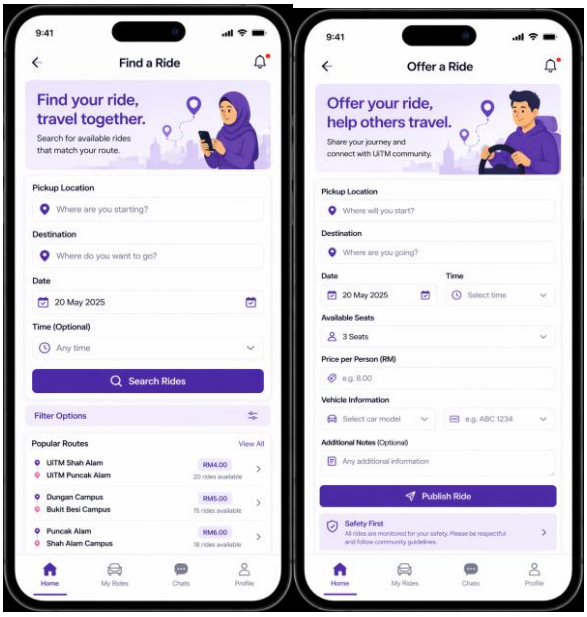


Figure 3: Find a Ride and Offer a Ride Interfaces

Shows the main features of the WeConnect application. "Find a Ride" allows users to search for rides based on their route, while "Offer a Ride" enables drivers to provide ride details and connect with passengers.

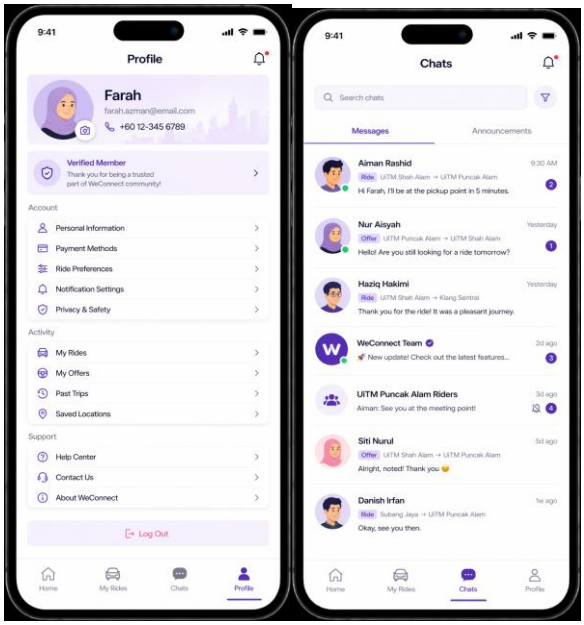


Figure 4: User Profile and Chat Interface

Displays the user profile section and chat feature of the WeConnect application. The profile interface allows users to manage personal information, while the chat function enables communication between drivers and passengers to coordinate ride details effectively.

NOVELTY AND UNIQUENESS

WeConnect is a smart, campus-exclusive mobility platform for UiTM students and staff. It is based on a verified, safe environment that uses UiTM email authentication to guarantee security and trust. The platform allows users with identical locations to share rides through human matching which results in lower expenses and shorter travel times while decreasing traffic congestion. WeConnect provides a better solution for campus transportation through its integrated ride booking system and communication tools and safety features which outperform the unofficial transportation arrangements that use WhatsApp and Telegram. The function of WeConnect as a transportation solution creates a more secure and intelligent campus environment that promotes community building.

BENEFITS TO MANKIND

WeConnect provides an empirical solution for transportation problems faced by students and staff within UiTM campuses who are travelling in the same direction. Instead of driving individually, user applications help users to connect and travel together, which contributes in building stronger connections among the UiTM community and reducing the transportation costs This also helps in reducing parking problems around campus. WeConnect also encourages ride sharing which

directly supports the environmentally friendly lifestyle by reducing the number of cars on the road. Which lowers carbon dioxide (CO_2) emissions.

COMMERCIAL POTENTIAL

WeConnect is a campus-based carpooling platform designed to improve transportation accessibility for UiTM students and staff across all UiTM branches. The app connects users travelling along similar routes within and around campus, offering a safer, more affordable, and convenient transportation alternative to costly e-hailing services. WeConnect also demonstrates strong commercial potential through small ride transaction fees, optional premium features, and potential collaborations with campus units and nearby local businesses. By serving the wider UiTM community, the platform has the opportunity to grow into a scalable and sustainable solution while supporting efficient and community-based transportation.

CONCLUSION

In conclusion, WeConnect has made significant inroads addressing the transportation issues of the UiTM community through its intelligent, safe, organized and inexpensive way to provide a carpool service. With the ability to connect registered and verified members of the student and staff population who make parallel trips, the app reduces the overall time spent commuting. As well, the reduction of the use of costly e-hailing services and the resulting traffic congestion and parking issues that currently exist on campus are both positive results of using the app. In addition, the app's focus on promoting travelling together and sharing mobility will help to produce greater sustainability by lowering carbon emissions.

Future enhancements could include real time ride tracking, secure in app payment systems and user rating mechanisms to build trust and usability as we look ahead. Furthermore, the potential scalability of the platform beyond UiTM campuses offers significant opportunities which are making WeConnect a viable smart mobility solution for broader educational and urban contexts.

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