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Journey Jive

Malu G[1], Renjini LR[2], Harikrishnan S R[3]
Student, MCA, CHMM College for Advanced Studies, Trivandrum, India[1]
Assistant Professor, MCA, CHMM College for Advanced Studies, Trivandrum, India[2]
Associate Professor, MCA, CHMM College for Advanced Studies, Trivandrum, India[3]

Abstract: *With advances in technology, mobiles are becoming the next generation of computers. Developers are exploring the full potential of mobile technology. Pool' up is a mobile app that enhances existing software by using GPS to enable efficient and flexible carpooling. Carpooling allows people traveling to the same destination to share a vehicle, reducing fuel costs, traffic, pollution, and global warming. With the growing population, carpooling is essential to preserve our world. Many carpooling websites exist but often fail in practice due to a lack of flexibility and payment security. Previous carpooling apps had issues like constant driver tracking and passengers being unaware of driver status, along with security concerns. Carpooling is a web-based application that is portable and low-maintenance, involving multiple clients and a single server interacting via the internet. Users register and create an account, providing mandatory photo ID for security. The method includes opening a carpool schedule web page, submitting schedule changes, updating the page, and sending notifications to carpoolers. The system includes devices for loading the schedule, submitting changes, storing data, and sending notifications. To overcome previous system drawbacks, we proposed a new application focusing on security issues. We use a comment and rating system for passengers and drivers, helping others know about their travel companions. Our system includes modules for drivers, passengers, comments, ratings, and Google Maps.*

Keywords: Carpooling, Block Chain concept, GPS Embedded, User Friendly Web Application

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