University of Central Punjab

Semester Project

Department of Computer Science & IT
Faculty of Information Technology

DATE

Day			Month			Year			
0	6	–	0	1	–	2	0	2	4

Project Title:

Bike Taxi Management System

Program *(Tick the appropriate box):*

☒ BSCS ☐ D4 ☒ D2

Group Member's Name *(in BLOCK letters)*	ID	Signature
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Supervisor's Approval

Zeeshan Akram

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Name: _____

Signature and Date : _____

Project Overview:

Title: Motorbike Taxi Management System

Introduction:

The Motorbike Taxi Management System offers a modern and efficient solution to streamline motorbike taxi service operations, improve customer satisfaction, and optimize resource utilization. By automating core processes, it minimizes manual effort, reduces errors, and enhances the overall efficiency of the motorbike taxi service, leading to enhanced profitability and customer loyalty.

Passengers can easily book rides through a user-friendly interface, specifying their pickup and drop-off locations, selecting the type of motorbike, and scheduling rides in advance.

The system intelligently assigns available motorbike taxi drivers to incoming ride requests based on factors such as proximity, driver ratings, and availability. Dispatchers can efficiently manage and monitor motorbike taxi driver assignments.

Passengers and administrators can track the location and movement of motorbike taxis in real-time on a map interface. This feature enhances safety, allows passengers to estimate arrival times accurately, and enables administrators to monitor fleet operations effectively.

The project supports multiple payment methods, including cash, credit cards, and digital wallets. Passengers can conveniently pay for their motorbike taxi rides through integrated payment gateways or cash transactions.

Furthermore, passengers can rate their motorbike taxi ride experience and provide feedback on drivers, helping maintain service quality. This feature allows continuous improvement and ensures accountability among motorbike taxi drivers.

At last, the system maintains a comprehensive record of completed motorbike taxi trips, including pickup and drop-off times, distances travelled, and fares. Administrators can generate reports for analysis, financial agreement, and performance evaluation.

Description:

The Motorbike Taxi Management project is a comprehensive system designed to efficiently manage and smooth operations in a motorbike taxi service company. It incorporates various features and functionalities to automate and enhance the overall management process. The

project covers both the administrative tasks and the operational aspects of the motorbike taxi service.

Features:

- The administrative features of the system include customer management, motorbike taxi driver management, and vehicle management.
- It allows the company to maintain a centralized database of customers, their contact information, and their booking history. The administrative features focus on streamlining the booking and dispatching process. Customers can make bookings through various channels, i.e., mobile app or a web portal.
- Additionally, the motorbike taxi management project includes functionalities for fare calculation, payment processing, and reporting on behalf of the customer.

These features collectively contribute to an efficient and user-friendly motorbike taxi management system, enhancing the overall experience for passengers, motorbike taxi drivers, and administrators while optimizing operational efficiency and customer satisfaction.

Purpose:

Overall, the project aims to improve the efficiency, reliability, and most importantly, customer satisfaction of a motorbike taxi service company by automating various aspects of its operations. Customers won't need to go out to book for a motorbike taxi manually, saving time. It simplifies the management process, enhances communication between motorbike taxi drivers and customers, and provides valuable insights for decision-making and performance evaluation.