FINAL YEAR PROJECT REPORT

DRIVO: YOUR ULTIMATE RIDE COMPANION

In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)

By

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SUPERVISED

BY
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BAHRIA UNIVERSITY (KARACHI CAMPUS)

FALL-2024

DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

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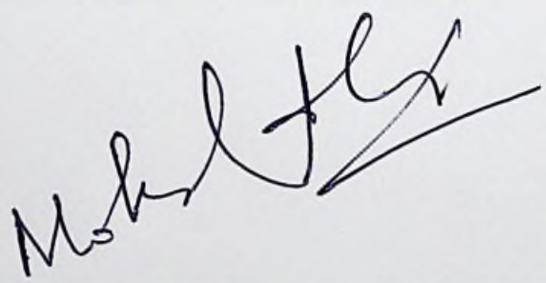
APPROVAL FOR SUBMISSION

We certify that this project report entitled **DRIVO: YOUR ULTIMATE RIDE COMPANION** was prepared by **LAIBA MUNAWAR LAKHANI, ABIDA IQBAL** and **ISHRAT TALIB** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of Science in **Computer Science** at Bahria University, Karachi.

Approved by,



Signature : _____

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Date : 30-12-2024

Specially dedicated to

My beloved grandmother, mother and father

LAIBA MUNAWAR LAKHANI

My beloved grandmother, mother and father

ABIDA IQBAL

My beloved grandmother, mother and father

ISHRAT TALIB

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DRIVO: YOUR ULTIMATE RIDE COMPANION

ABSTRACT

The advancement of smartphones, global positioning system, and information technologies have a great influence on our travelling preferences and behavior, dynamically shaping the transportation industry. Moreover ride-hailing, as a popular shared-transportation method, has been operated in many areas all over the world. DRIVO: Your Ultimate Ride Companion is a modern ride-hailing and carpooling platform designed to address the challenges of urban transportation providing solutions to the problems. The platform allows users to book rides quickly, plan their trips and even opt for gender-based carpooling, making travel safer and more inclusive for everyone. By offering real-time carpooling options, it empowers both drivers and passengers enhancing cost-effective travel practices. With a focus on safety and comfort, DRIVO's gender-based carpooling stands out as a key feature, allowing users to choose travel companions based on their preferences. Additionally the feedback feature will help to improve driver ratings and enhance the overall quality of service, ensuring every ride is better than the last. The application allows users to enter their origin and destination, estimated costs, and car types making it accessible to everyone. Our application uses TypeScript for frontend and JavaScript for backend, also we have used Node.js along with the Express.js framework to handle server-side operations and APIs integration. Additionally, Expo is used for integration with React Native. Through these carefully designed features, the platform seeks to provide transportation solutions while maintaining a strong focus on safety and reliability.

TABLE OF CONTENTS