

KADUNA POLYTECHNIC

**MOBILE-BASED TRICYCLE BOOKING APPLICATION FOR STUDENTS AT
KADUNA POLYTECHNIC MAIN CAMPUS**

BY

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**THIS PROJECT IS SUBMITTED TO THE DEPARTMENT OF COMPUTER SCIENCE
KADUNA POLYTECHNIC IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE AWARD OF HIGHER NATIONAL DIPLOMA IN COMPUTER SCIENCE**

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DECLARATION

I hereby declare that the project has been conducted solely by me under the guidance of Mr. Ibrahim Aliyu Ibrahim, department of **COMPUTER SCIENCE**, Kaduna Polytechnic, Kaduna and I have neither copied someone's work nor has someone else done it for me. Authors whose works have been referred to in this project have been acknowledged.

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APPROVAL

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DEDICATION

This project is dedicated to Almighty God the beneficent, the merciful and the creator of the universe; for the gift of life and good health given to me throughout my programme.

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ABSTRACT

This study focuses on the development of a Tricycle Booking Application tailored for the students of Kaduna Polytechnic's main campus. The existing transportation system faces challenges like tricycle unavailability, long waiting times, and price discrepancies. To address these issues, the research aims to create a user-friendly application that allows students to easily book tricycles, check availability, get fare information, and make payments seamlessly. The effectiveness and functionality of the application will be ensured through unit and integration testing. Utilizing technologies such as Flutter for the user interface, Django rest framework for the Restful API, and Firebase for the database, this study seeks to provide an efficient and reliable transportation solution, enhancing students' mobility, punctuality, and overall campus experience. Through this research, the goal is to positively impact student life at Kaduna Polytechnic by improving access to transportation services and facilitating smoother campus commutes.