Project report on RANGO RIDE HAILING - ANDROID MOBILE APP

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Under the Guidance of Mrs. MADHUPRIYA M.S.



In partial fulfillment of the requirements for the award of the degree -BACHELOR OF COMPUTER APPLICATION BANGALORE NORTH UNIVERSITY TAMAKA, KOLAR, BENGALURU – 560049



DEPARTMENT OF COMPUTER APPLICATION

EAST POINT COLLEGE OF HIGHER EDUCATION

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SEPTEMBER 2023

CERTIFICATE

This is to certify that the project work entitled "RANGO RIDE HAILING ANDROID MOBILE APP" is a bonafide record of work done by ABHINESH.V (R2014002) submitted in partial fulfillment of the requirement for the award of the degree BACHELOR OF COMPUTER APPLICATION of Bangalore North University, Tamaka, Kolar, Bengaluru under the supervision of Mrs.MADHUPRIYA.MS.

Date:		Signature of the Guide			
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External Viva-voce Conducted on					
INTERNA	AL EXAMINER	EXTERNAL			

EXAMINER

DECLARATION

I hereby declare that this project entitled "RANGO RIDE HAILING ANDROID MOBILE APP' submitted to the Bangalore North University, Tamaka, Kolar, Bengaluru in partial fulfillment of the requirement for the award of the degree **BACHELOR OF COMPUTER APPLICATION** is a record of original work done by me during the period of study at **EAST POINT COLLEGE OF HIGHER EDUCATION** under the guidance of **Mrs.MADHUPRIYA.M.S.**

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ACKNOWLEDGEMENT

If words are considered as a symbol of approval and token of appreciation then let the words play the heralding role expressing my gratitude, The satisfaction that accompanies that the successful completion of any task would be incomplete without the mention of people whose continuous cooperation made it possible, whose constant guidance and encouragement crown all efforts with success. We are grateful to teacher **Mrs.MADHUPRIYA.M.S** for the guidance and constructive suggestions that helped us in the preparation of this project.

Date: ABHINESH.V (R2014002)

SYNOPSIS

In the ever-evolving world of transportation and mobile technology, the development of a ride-hailing app using React Native represents a easy and efficient solution that brings convenience, efficiency, and real-time navigation to users.

Introduction:

Rango is an mobile application that aims to improve the ride-hailing experience by incorporating innovation and optimizing convenience for users. The app provides a efficient and user-friendly platform for individuals to easily request rides and navigate to their destinations to travel with efficiency and ease.

Nodejs with ReactNative would be used to develop the Mobile App, whereas the the server would will be coded with nodejs with a backend framework Expessjs. The Passenger's ,Driver's data and the ride data would be stored in a MongoDB database. The database will be created and managed using Mongoose Library. The App would work on any Android device with version 5+.

Key Features:

- Passenger and Rider Authentication.
- > Search for places using the mapbox forword-geocoding API.
- Using mapbox reverse geocoding API to get place coordinates.
- ➤ Implement the Maps function with Mapbox Maps services.
- ➤ Real-Time Driver Tracking.
- One-time-password Verification on start and end of ride.
- Real time ride booking.
- Review and Rating System.
- > Driver and Vehicle Information.
- > Fare Estimation.

CONTENT

1. INTRODUCTION				01
1.1. Purpose	01			
1.2. Scope		01		
2. SYSTEM ANALYSIS AND Requirements				02
2.1. System Analysis		02		
2.2. System Requirements.		02		
3. SYSTEM DESIGN				06
3.1. Use Case		06		
3.2. Data Flow				08
3.3. Entity Relationship diagram		11		
3.4. Module Division		12		
4. IMPLEMENTATION			14	
4.1. Front-end				14
4.2. Back-end		46		
4.3. Project Implementation				54
4.4. Project Snapshots				58
5. CONCLUSION			61	
6. REFERENCES			62	