K. S. INSTITUTE OF TECHNOLOGY, BENGALURU-560109
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MINI PROJECT - (21CSMP67)

PROJECT TITLE: RIDEWISE - Smart Cab Fare Comparison and Booking Hub	

Batch No: 2024_CSE_02	**Guide Name: MR. PRASHANTH H S**

Sl. No.	NAME	USN
1	ABHILASHA V	1KS21CS003
2	ADITHI R	1KS21CS006
3	DEEPTHI A B	1KS21CS026
4	HEMANTH KUMAR V	1KS21CS038

ABSTRACT

The proposed project is a comprehensive cab fare comparison and booking platform designed to streamline the process of selecting a cab service. By integrating APIs from popular cab services like Ola, Uber, and Rapido, the platform will provide users with real-time price comparisons, availability updates, and additional relevant information. Users can register, authenticate, and manage their profiles, while the app leverages geolocation services to fetch their current location. Upon selecting a service, users will be redirected to the respective app for booking. The project incorporates data analysis and cloud computing to manage trip details and ensure seamless functionality. Additional features include user reviews, trip history, and the option to save favorite routes for quick access.

System Requirements (H/W and S/W):

Operating System:
Development Environment: Windows, macOS, or Linux
Server Environment: Amazon Linux 2 or Ubuntu on AWS EC2 instances

Data Storage and Management:
Database: PostgreSQL (hosted on Amazon RDS)
Cloud Storage: AWS S3 for any necessary data storage

Minimum Hardware Requirements:

Local Development Machine:

Processor: Quad-core CPU (Intel i5/i7 or AMD equivalent)
RAM: 16 GB or higher
Storage: SSD with at least 512 GB

Server/Cloud Instances:

Development/Testing: t3. medium (AWS)
Production: m5. large or larger (AWS)
RAM: 16 GB or higher (depends on workload)
Storage: SSD-backed storage, size depends on data volume and access patterns

Software Requirements:

Frontend Development:

Frontend Framework: React
State Management: Redux or Context API
UI Components: Material-UI, Bootstrap, or Ant Design

APIs:
Cab Service APIs: Ola, Uber, Rapido (for fetching price and availability)
Geolocation: Google Maps API, OpenStreetMap API
Authentication: OAuth 2.0, JWT

Visualization Tools:
Charting Libraries: Chart.js, D3.js, or Recharts

Development Environment:
IDEs: Visual Studio Code
Version Control: Git, GitHub

Backend Development:

Web Framework: Django
REST Framework: Django REST Framework for creating RESTful APIs

Cloud Platform:

Compute: AWS EC2 for hosting backend services
Database: Amazon RDS for PostgreSQL
Storage: Amazon S3 for static assets and data storage

Base Paper Submitted: No

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Note: Not For Student Use

ACCEPTED	REJECTED	RE SUBMIT
Reason for Rejection:		
Reason for Re Submit:		

Project Coordinators   **HOD**

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