

CASE STUDY

Cabty Taxi



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Cabty

Cabty approached us with the vision of developing a comprehensive ride-hailing mobile application that provides a seamless transportation experience for users. The primary goal was to create a user-friendly platform that connects passengers with drivers efficiently, ensuring reliability and accessibility.

User Registration – Simple and secure sign-up process for passengers and drivers.

Ride Booking System – Effortless ride requests with real-time driver availability.

Real-Time Tracking – Users can track their rides and drivers can navigate efficiently.

Secure Payment Integration – Multiple payment options for easy transactions.

Driver Dashboard – Features for ride management and earnings tracking.

Rating and Review System – Users can rate their experiences to ensure service quality.

Push Notifications – Alerts for ride status updates, messages, and promotions.

Help and Support – In-app support for both passengers and drivers for issue resolution.



Challenges and Solution



- **User Experience Design**

We faced the challenge of ensuring an intuitive design for both apps. Extensive user testing and feedback were conducted to refine the interfaces for better usability.

- **Integrating Real-Time Features**

Implementing real-time tracking required optimizing backend processes for efficiency. We utilized WebSocket technology for instant updates and smooth interactions.

- **Cross-Platform Compatibility**

Developing the app for both iOS and Android with a unified user experience was essential. Utilizing React Native allowed us to efficiently develop for both platforms while ensuring high performance and smooth functionality.

- **End to End Security**

JSON Web Tokens (JWT) are a compact, URL-safe means of representing claims to be transferred between two parties. JWT provides a powerful method for securing authentication in Node.js applications. Its stateless nature, combined with signature verification and customizable claims, makes it an excellent choice for modern web applications. By implementing JWT correctly, developers can enhance the security of their applications while providing a seamless user experience. We always follow best practices, such as using strong secret keys, implementing token expiration, and securing storage mechanisms.

Technologies Used



- **Cloud Hosting** – AWS (Amazon Web Services) for reliable and scalable cloud infrastructure.
- **Backend Development:** Node.js and MySQL for scalability and real-time interactions.
- **Frontend Development:** React Native for cross-platform development on iOS and Android.
- **Payment Integration:** Stripe for secure transactions and tipping.
- **Geo-Location Services:** Google Maps API for accurate and real-time location tracking
- **SSL Certification** – For secure data transmission and encryption of user information.
- **Push Notifications** – Firebase Cloud Messaging for real-time notifications.
- **User Data Encryption** – AES-256 encryption for protecting user data at rest and in transit.
- **Real-Time Messaging** – WebSocket protocol for instant communication between users.

Technologies Used



Cloud hosting

AWS (Amazon Web Services) for reliable and scalable cloud infrastructure.



User Data Encryption

AES-256 encryption for protecting user data at rest and in transit.



Node JS

Single Thread Back-End able to withstand thousand request per second.



My SQL

Seamless Relational Database with Atomicity, Concurrency, Integrity and Durability.



Google Maps

Google Maps

Navigate your world with Google Maps—where every journey starts with a tap!



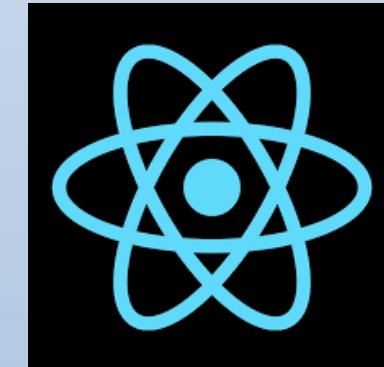
Firebase

Build fast, scale effortlessly, and connect with confidence!



Stripe

Stripe: Where Payments Flow Seamlessly!



React Native

One Code, Every Platform.

Commercial Benefits



- Cabty has successfully launched and quickly gained traction among users seeking reliable transportation solutions. The combination of a user-friendly design, robust features, and efficient performance has positioned Cabty as a preferred choice in the competitive ride-hailing market..
- With its focus on enhancing user convenience and safety, Cabty continues to evolve, ensuring a high-quality service that meets the needs of its diverse user base.

Download Cabty App:

Experience the future of transportation by downloading the Cabty app from the [Google Play Store](#) or [Apple App Store](#).

For more information, visit [Cabty Website](#).



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