

CASE STUDY

RENTIE



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Rentie Objectives

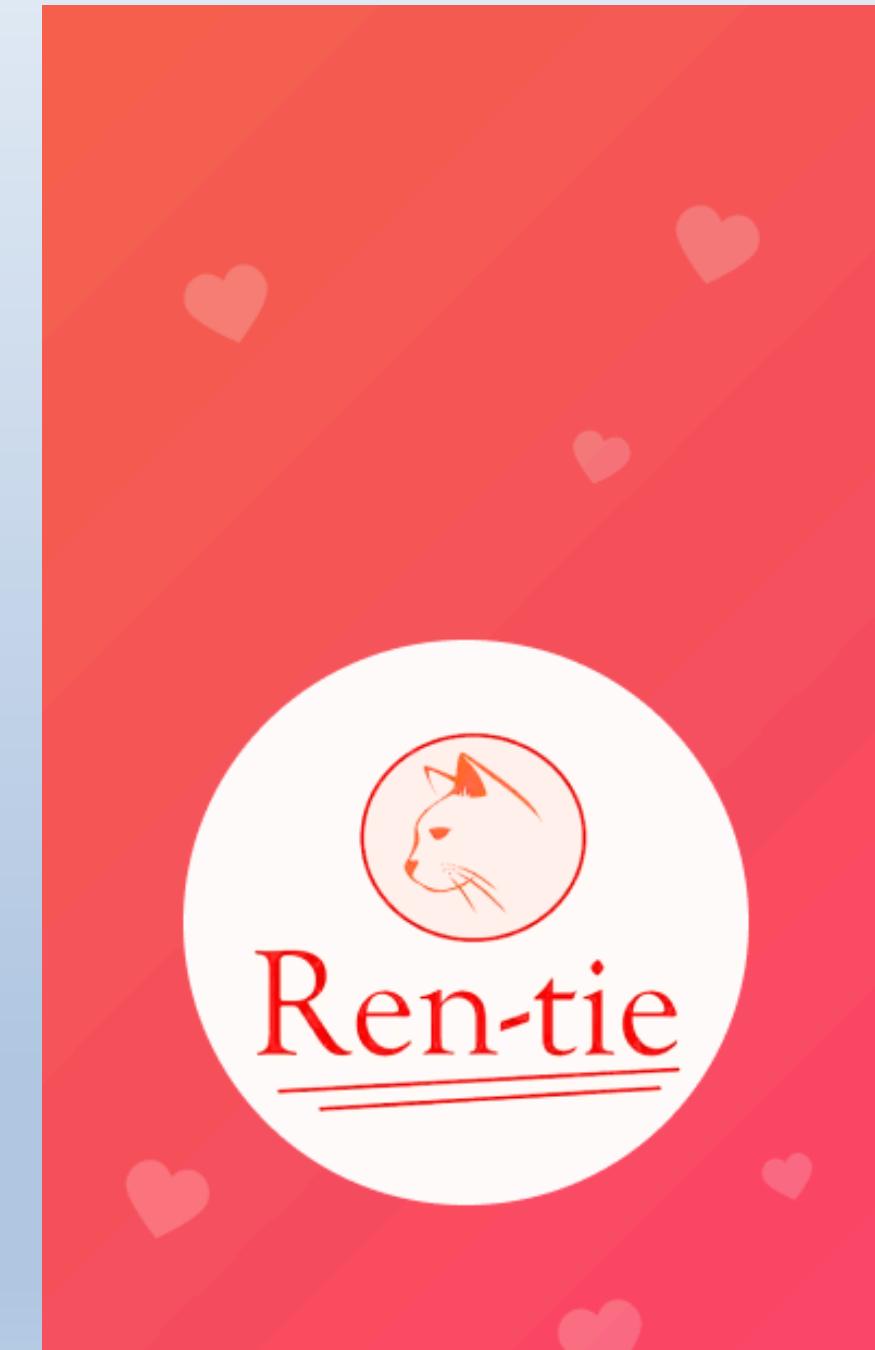
Ren-Tie approached Creative Thoughts with the vision to create a mobile app that combines the functionality of social networking with an added layer of unique features like renting time with individuals, inviting others on dates, and tipping. The primary goal was to develop a platform that enhances user engagement and offers an intuitive and seamless experience, allowing users to meet people with ease.

Unique features Ren-tie offers :

- Renting time
- Inviting Dates
- Tipping

Core Features:

- **User Profile Creation** – Personalized profiles with detailed preferences.
- **Advanced Search and Filters** – Find matches based on location, interests, etc.
- **Booking and Payment System** – Secure booking and payment for renting time.
- **Renting System** – Offer/request time with others for activities.
- **"Invite for a Date" Feature** – Users can bid or tip when inviting others on dates.
- **Messaging System** – In-app chat for secure communication.
- **Rating and Review System** – Users can rate and review each interaction.
- **Geo-Location Services** – Discover people and events nearby in real-time.
- **Bidding System** – Real-time bidding to invite someone on a date.
- **Tipping Feature** – Optional tipping to show interest or appreciation.
- **Discover Feature** – Explore new users, activities, and events.
- **Push Notifications** – Stay informed about messages, bookings, and invites.
- **Event Calendar** – Schedule and track upcoming activities and dates.
- **Favourites List** – Save profiles or connections for future interaction.
- **User Verification** – Verify identity for increased trust and safety.



Challenges and Solution



- **Ensuring User Privacy and Safety**

Given the nature of the app, we prioritized user safety by implementing rigorous privacy policies, encryption for personal data and secure messaging systems. A robust moderation system was also put in place to address any inappropriate behaviour or content swiftly.

- **Building a Seamless Payment System**

Integrating the renting and tipping functionalities required developing a secure and flexible payment gateway, allowing users to manage payments, bids and tips with ease.

- **End to End Security**

JSON Web Tokens (JWT) are a compact, URL-safe means of representing claims to be transferred between two parties. It is commonly used as a method for securing authentication in Node.js applications. Its stateless nature, combined with signature verification, 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 secure storage mechanisms.

Technologies Used



- **AWS :** AWS hosting with seamless integration over server with front and backend.
- **Backend Development:** Node.js and MySQL for scalability and real-time interactions.
- **Frontend Development:** Flutter 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
- **Cloud Hosting – AWS** (Amazon Web Services) for reliable and scalable cloud infrastructure.
- **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.



MySQL
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!



Flutter
Beautiful native apps in record time.

Commercial Benefits



- Ren-Tie has successfully launched and received positive feedback from its diverse user base. The app has become a go-to platform for people looking to expand their social circles while enjoying innovative features like time renting and tipping.
- The combination of intuitive design, safety measures, and unique functionalities has made Ren-Tie a standout product in the social networking space.
- With its focus on inclusivity, user engagement, and innovation, Ren-Tie has positioned itself as a unique solution for individuals seeking to form meaningful connections in today's fast-paced world.

Download Ren-Tie App

Experience the future of social connections by downloading the Ren-Tie app from the Google Play Store: [Ren-Tie on Google Play](#). For more information, visit [Ren-Tie Website](#).



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