

2023 – Lab Exam 01 Report

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Batch	Y2.S2.WE.IT.01.02

Description:

Rental Xpress is an innovative car rental app designed to give users flexible and quick ride car renting options. Whether you want a car with or without a driver, Rental Xpress has your back. Our 'Quick Ride' feature enables users to rent a car and share the journey with another going in the same direction, thus allowing extra earnings. It also promotes carpooling, reduces the travel cost, and provides a cleaner environment with less congestion of vehicles on the road.

Problem :

Traditional car rental services most of the time lack flexibility, convenience, and cost-effectiveness. In many cases, users will find it difficult to get an affordable rental for a short trip or even daily travel. Moreover, there is a growing demand for green transportation to lessen the surging level of CO2 emission and traffic congestion.

Solution :

Rental Xpress solves these problems with an easy-to-use mobile application that offers flexible rental options with or without a driver. The 'Quick Ride' function makes travel more affordable and environmentally beneficial by enabling users to earn money while ride-sharing. This app simplifies the car rental process and increases convenience, there by reducing the number of vehicles on the road with its carpooling options.

Functional Requirements :

1. User Registration and Authentication
 - The user shall be able to log in to the site using his email, phone number, or social media accounts.
 - Safe authentication to guard the information of the user.
2. Car Rental Booking
 - A user can search cars that are available on a particular location he prefers at a certain date and time.
 - The user has an option to rent a car with or without a driver.
 - A user can view details of a car, rental rates, and availability.
3. Rating and Reviews
 - Users will be able to rate and review cars and drivers after the rental period.
 - Feedback system to improve service quality.
4. Quick Ride Feature
 - Users can use an option of 'Quick Ride' so that people going in the same direction can share a ride.
 - Option to either join or ignore the ride-sharing post of other users.

Non-Functional Requirements :

1. Performance
 - The application should be loaded fast, and it should react to user gestures with no noticeable delays.
 - It should handle efficiently many users and transactions at the same time.
2. Scalability
 - The app should scale with an increasing number of users and increased transactions among them.
3. Security
 - Strong encryption methods for the encryption of user data and secure authentication techniques.
 - Protection against common security threats such as data leakage, unauthorized access to information, etc.
4. Compatibility
 - Compatibility shall be with all types of mobile devices and operating systems—iOS and Android.
5. Reliability
 - The app should be available and functional with as little as possible downtime.
 - Make regular backups to avoid losing data.

1. App Logo and Launch Screen



2. User Onboarding Screens



9:41



Welcome to Rental Xpress



Register

Already have an account ? [Sign in](#)

9:41



Sign in



User Name / Email



Password



I have read the [Teams & Conditions](#)

Login

[Forgot your password ?](#)

9:41



Your location

Malabe, Colombo ▾



Find your favorite vehicle



Search Vehicle..

Top Brands

[See all](#)



Available Near You

[See all](#)



Audi TT RS Coupé || TT Range

★ 4.9 [192+ Review]

\$1,600 /day



Tesla M

★ 4.5 [



9:41



Date & Time

Booking with Driver

Don't have a driver? Book with the driver.



September 2024



S	M	T	W	T	F	S
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Pick-up Time

Return Time

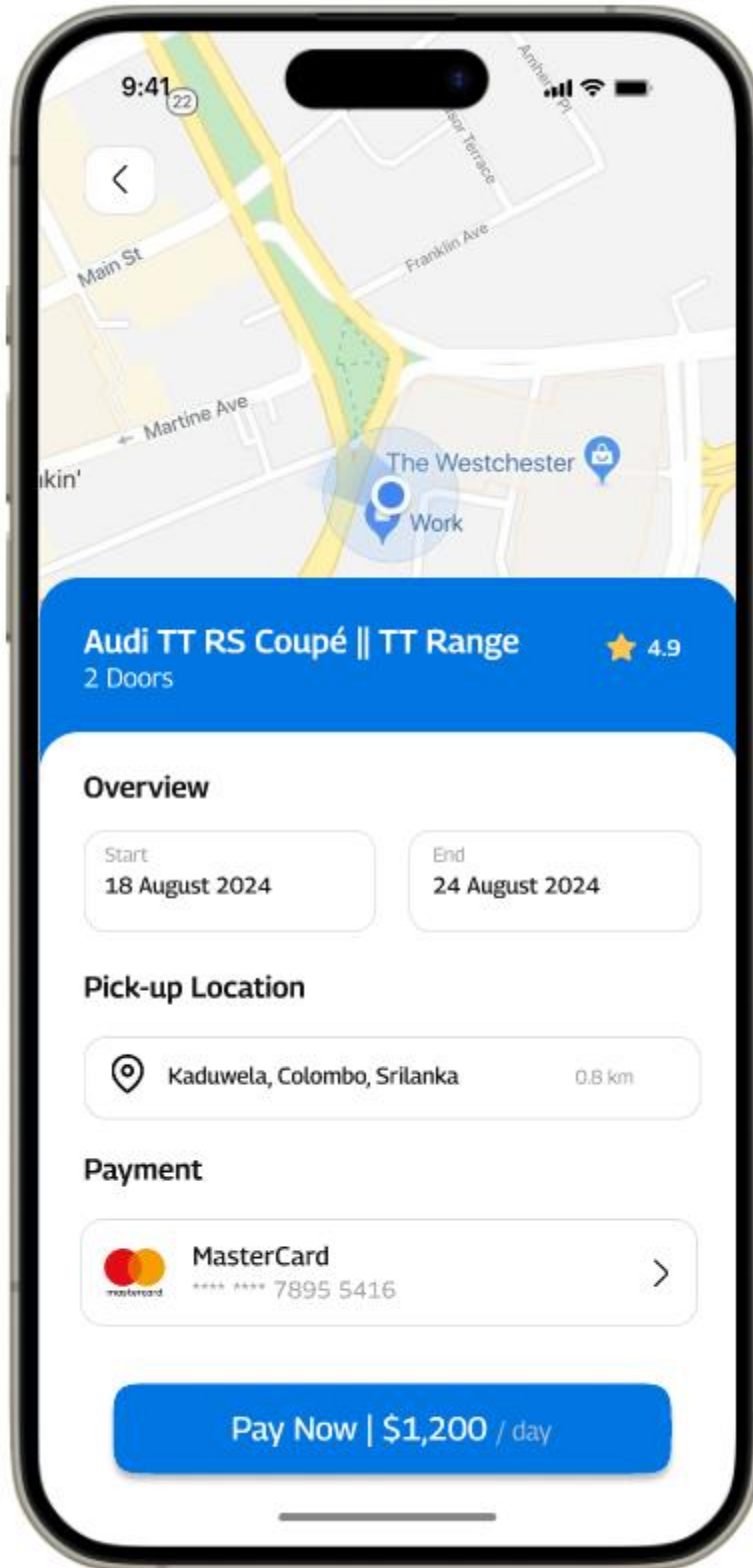
08:30



20:00



Booking



9:41



Audi TT RS Coupé || TT Range



★ 4.9 [192+ Review]



David Smith
Renter



Call info



2 passengers



Fual into : Full to Full



Air Conditioning



2 Doors



Manual

Car Specs

Max. Power
340
hp

0-60 mph
5.4
sec.

Top Speed
250
kmph

Booking Now | \$1,200 / day

9:41



Tesla Model S || Tesla



★ 4.5 [162+ Review]



Henry Lucas
Renter



Call info



2 passengers



Fual into : Full to Full



Air Conditioning



2 Doors



Auto

Car Specs

Max. Power
356
hp

0-60 mph
5.2
sec.

Top Speed
322
kmph

Booking Now | \$1,450 / day

9:41



Edit Profile



Savidya Jayalath

Sri Lanka



Full Name

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Password



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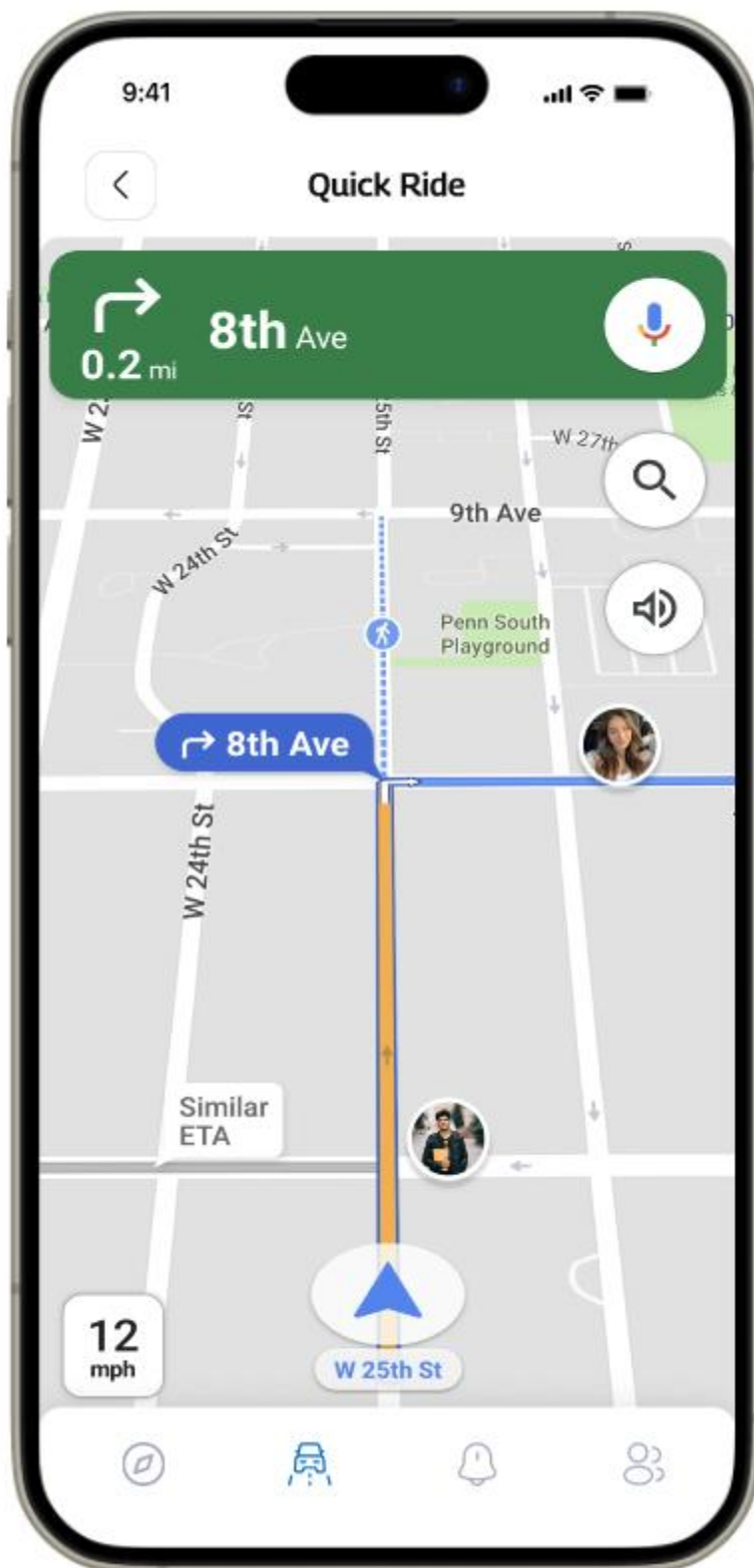
9:41



**Thanks
for
Join with us !**



Get more Booking !



Resources :

Pictures -: “PinterPinterest” website (<https://www.pinterest.com/>)

Tutorial -: Youtube (https://youtu.be/FTFaQWZBqQ8?si=MH_004aclzMnh7JI)

Tools -: Figma (<https://www.figma.com/>)

Project Link :

Link -: ([Rental Xpress](#))

Prototype Link -: ([Rental Xpress Prototype](#))