

VPOOL.

by Ctrl + Win

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Problem Statement

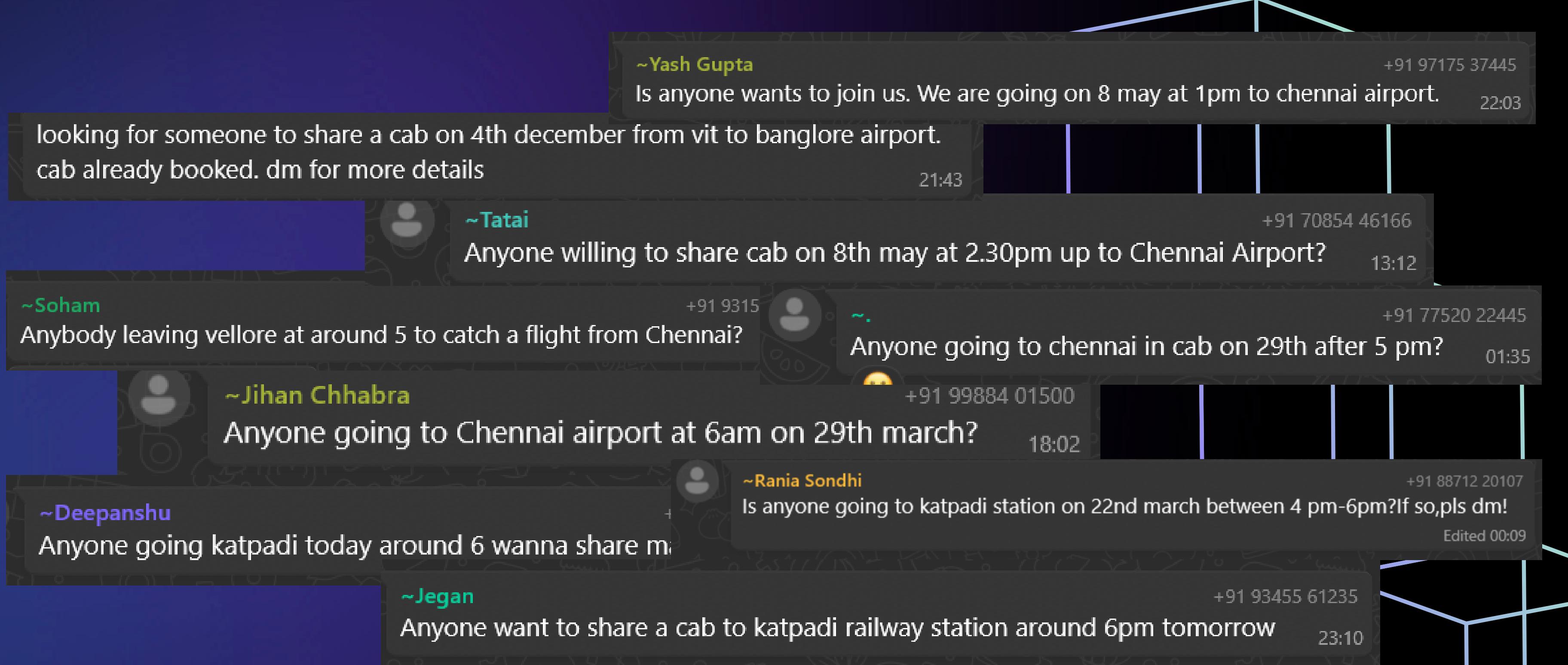
What VPOOL does ?

Unique Selling Points (USP)

Tech Stack & Architecture



Problem Statement



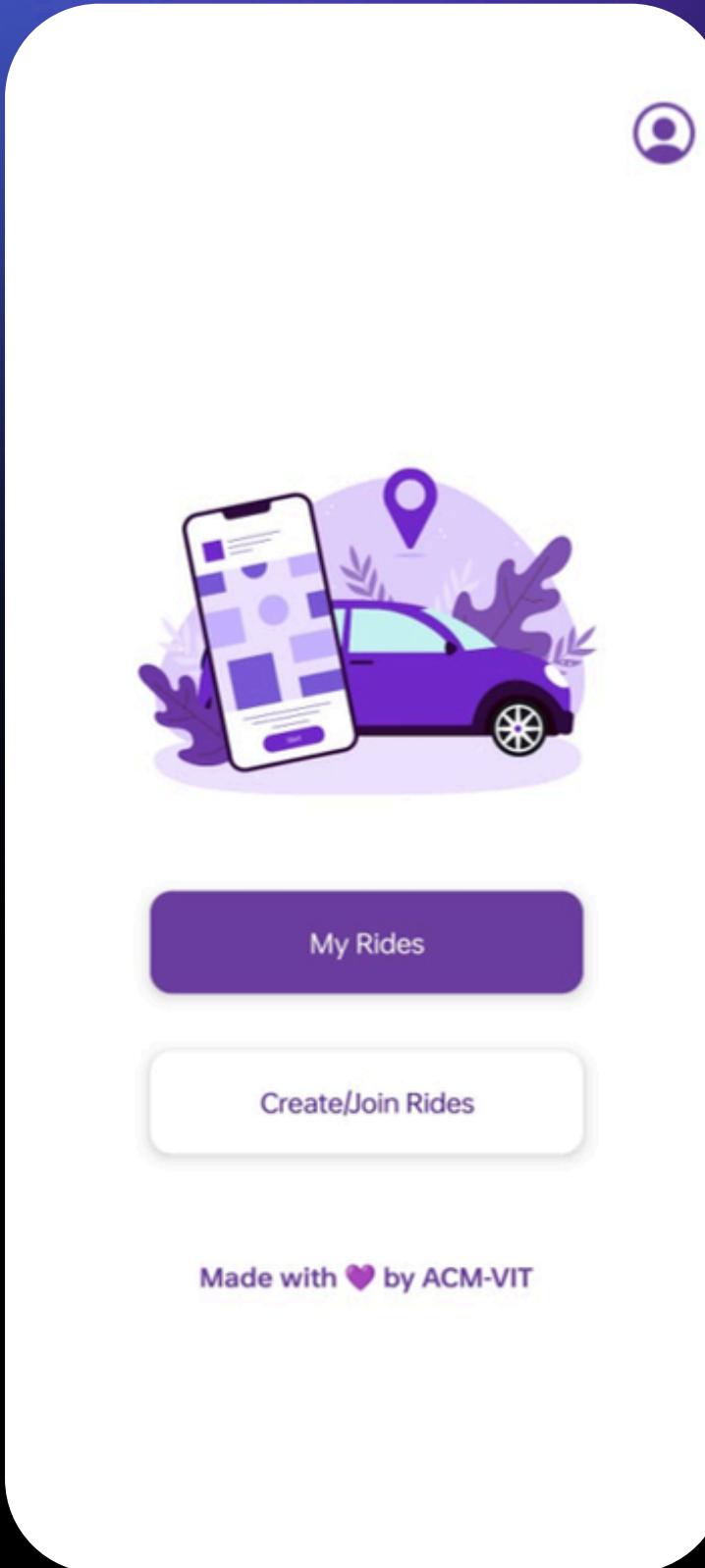
What VPOOL does?

Medium for students in VIT to commute !!!

- VPool is the ultimate carpooling plug for VIT students
- Making rides cheaper, safer, and straight-up effortless.
- Makes student transportation efficient.
- Encourages community-driven travel. Enhances safety with verified student profiles.



OUR COMPETITOR : UNIPOOL



Feedback system ?

Chatting system ?

Notifications ?

Splitting of fares ?

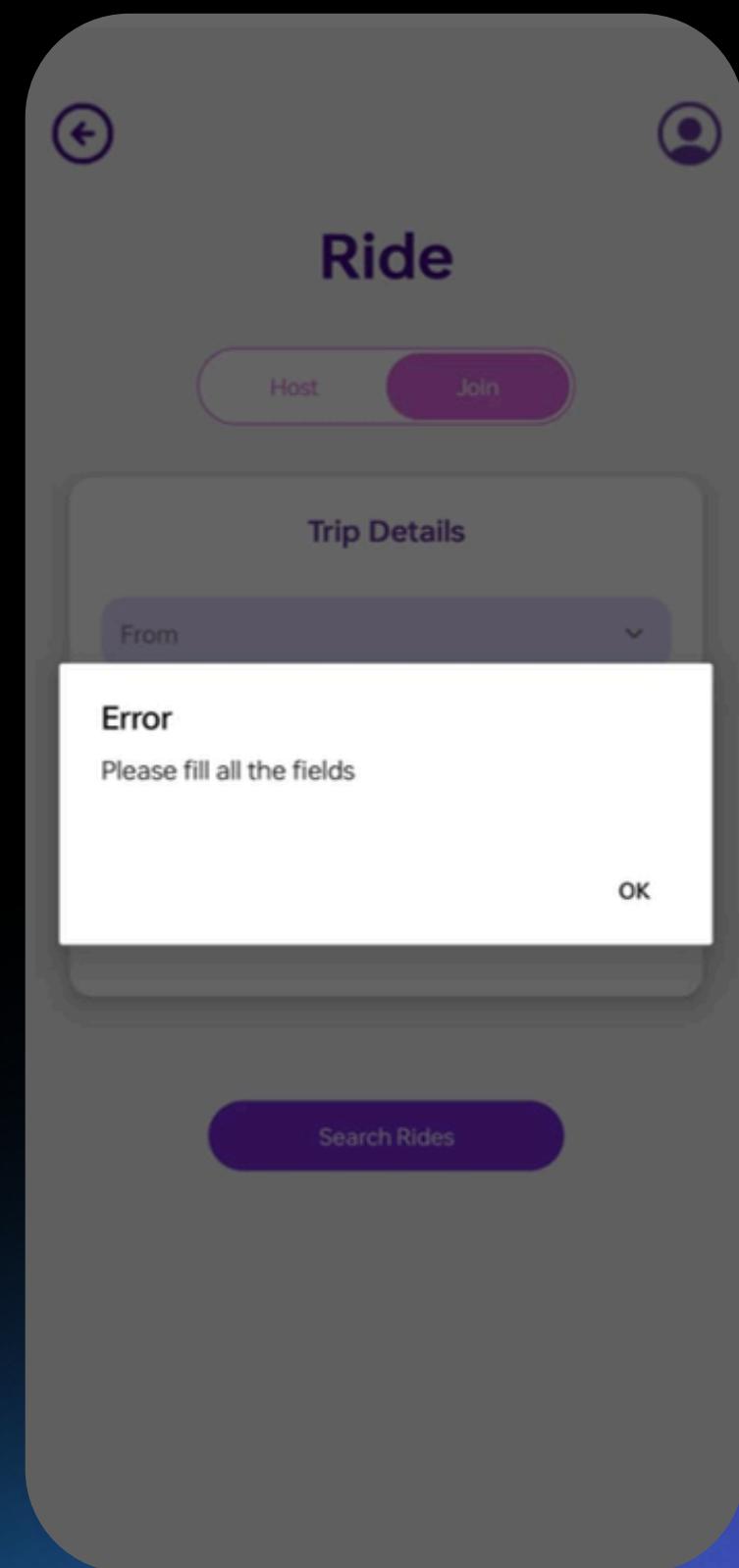
Luggage Management ?

User friendly interface?

Strangers involvement ?

Gender Specific Rides ?

Comfort preferences ?



Key Features



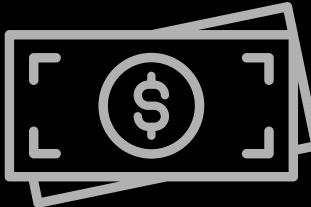
Finds Your Ride Crew

Matches you with people going the same way.



Auto-Splits the Fare

No "bro, send ₹50" awkwardness.



Keeps It Safe

Only VIT-verified users + gender-specific rides.



Handles Luggage Drama

Got a big-ass suitcase or a guitar ? We got space planning.



No Barf Rides

Motion sickness gang, front seat secured.



USP

Push
Notifications

University
Email
Verification

Automatic
Cost Splitting

Luggage
management

Eco-Friendly
Travel

Gender-
Specific Rides

AI-Powered
Matching

Comfort
preferences

Ratings &
Reviews

Quick chat
support



Tech Stack & Architecture

User Interface & Frontend

- Figma - For designing user-friendly interfaces, prototyping, and collaboration.
- React.js / Next.js – For a fast and smooth web app experience.
- Tailwind CSS – For clean, responsive UI.

Backend (Logic & APIs)

- Node.js + Express.js – Handles ride matching, chat, and user data.
- Google Maps API – For route optimization and live tracking.
- Socket.io – Enables real-time chat & ride updates.

Database & Storage

- MongoDB / Firebase – Stores users, ride details, and preferences.
- AWS S3 / Firebase Storage – Stores profile pictures & chat history.

Others

- AI Algorithm – Matches users based on route, time, and preferences.
- Firebase Cloud Messaging – For push notifications
- Razorpay / UPI Integration – For automatic cost splitting.
- OAuth / Firebase Auth – University email verification for user access.



VPOOL.

"Sharing rides, saving miles, building connections—one trip at a time"