

2025

Campus Ride sharing app



PRESENTED BY
KHAABU

Problem Statement

- Students and faculty struggle to find others going to the same destination.
- Lack of coordination leads to:



HIGHER COST



TRAFFIC



CO₂ FOOTPRINT

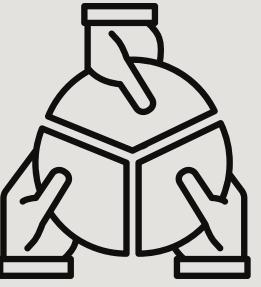
- No dedicated platform exists for college-specific ride-sharing groups.



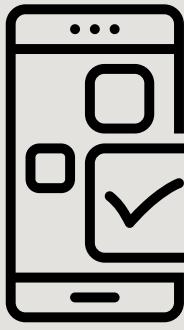
SOLUTION



Match
students/faculty
with similar
routes by prompt



Create ride-
sharing groups
easily



In-app
communication
and scheduling

IMPLEMENTATION

FIRST

User enters prompts → Current Location, Destination, Car Agency, Group Size.

SECOND

System checks database for matching prompts and matching contacts.

THIRD

If a group exists → user joins.
If no group exists → new group is created.

FOURTH

Group members can chat & coordinate rides.

Challenges

ROUTE
NORMALIZATION

MUTUAL
CONNECTIONS

GENDER
RESTRICTION

TIME MATCHING

DEPLOYMENT
ERRORS

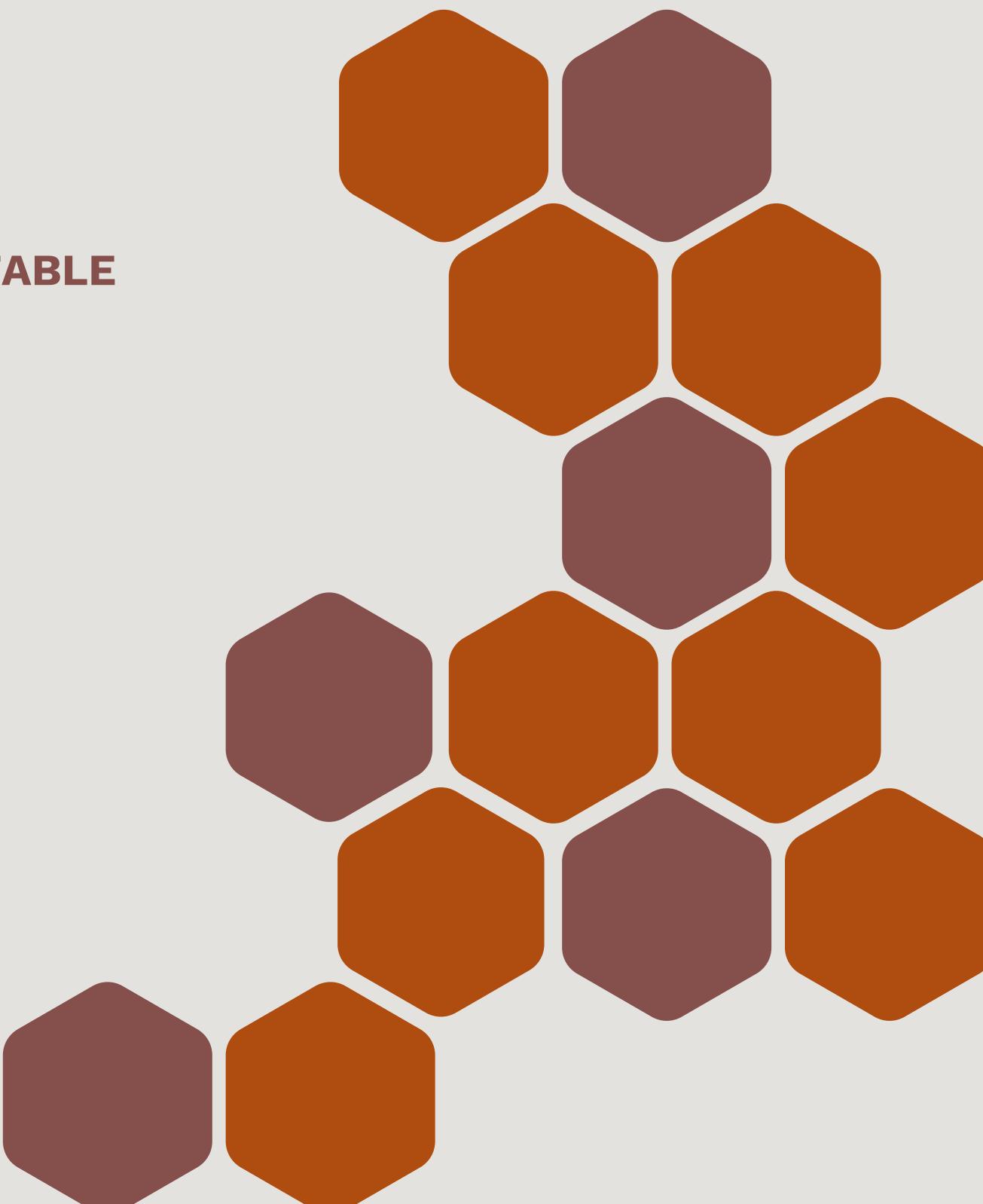
USING A CITIES AND STOPS MASTER TABLE

TRUST DEGREE RANKING SYSTEM

MALES CANNOT CREATE OR SEE
FEMALE-ONLY RIDES

FLEXIBILITY- EXACT
MATCHING AND WHOLE-DAY
SEARCH

ENVIRONMENT
RECONFIGURATIONS- SCHEMA
MIGRATIONS AND OPTIMIZED
BUILDS



FINANCES AND THEIR USES

- Cloud & Hosting: Render (backend) + Vercel (frontend)
- API Services: Google Maps API for route and distance
- UI/UX Tools: Tailwind & Figma for design consistency
- Testing: Student pilot testing and data collection
- Promotions: Awareness campaigns within campus



MARKET EXPLANATION

- KHAABU OPERATES IN THE CAMPUS MOBILITY AND SHARED TRANSPORT SECTOR
- THE MARKET INCLUDES OVER 35 MILLION COLLEGE STUDENTS, MANY OF WHOM TRAVEL FREQUENTLY BETWEEN PATIALA, LUDHIANA, CHANDIGARH, AND DELHI NCR.
- EXISTING RIDE APPS DON'T CATER TO COLLEGE-SPECIFIC NEEDS
- BY FOCUSING ON STUDENT SAFETY, VERIFIED IDENTITIES, AND SHARED COSTS, KHAABU FILLS A UNIQUE GAP IN THIS MARKET.
- THE MODEL IS SCALABLE, MEANING IT CAN EASILY EXPAND FROM THAPAR UNIVERSITY TO NEARBY COLLEGES AND LATER TO CAMPUSES NATIONWIDE.



REVENUE POTENTIAL

PATIALA--->DELHI

🎯 Key Assumptions

Parameter	Value / Logic
Avg. cost per person	₹1,000
Avg. group size	4 (3 passengers + 1 driver)
Total students (COE)	2,000
% travelling to Delhi	25% → 500 students
Rides per user	4 rides/month
Khaabu fee	₹10 per passenger per trip
Total monthly rides	$(500 \div 4) \times 4 = 500 \text{ rides}$

💰 Monthly Revenue Summary

Source	How It Works	Est. Monthly Revenue (₹)
Service Fee / Commission	₹10 × 3 passengers × 500 rides	₹15,000
Campus Ads	4–5 local sponsors @ ₹5,000/week	₹20,000
Premium College License	Thapar admin dashboard + analytics	₹25,000
Total Estimated Revenue	—	₹60,000 / month

REVENUE

SCALING POTENTIAL

Colleges Covered	Est. Monthly Revenue (₹)
Thapar (Pilot)	₹60,000
5 Nearby Colleges	₹3,00,000
Annual Regional Turnover	₹36 Lakhs



Tech Stack

FRONTEND

- REACT NATIVE(MOBILE)
- REACT+TAILWIND(WEB)
- OPENSTREETMAP/GOOGLE MAPS

BACKEND

- NODE.JS + EXPRESS (REST APIs)
- JWT / FIREBASE AUTH
- (COLLEGE LOGIN)

DATABASE

- POSTGRESQL (USERS, GROUPS, MEMBERSHIP)
- TABLES FOR USERS,TRIPS,CONNECTIONS,S TOPS,MEMBERSHIPS

HOSTING

- VERCEL FOR FRONTEND
- RENDER FOR BACKEND AND POSTGRESQL



USER FEEDBACK

ESPECIALLY LIKED

- FEMALE-ONLY RIDES
- THE MUTUAL CONNECTION FILTER
- THE CLEAN UI AND SIMPLICITY
- INTERMEDIATE MATCHING
- PROFILE TRANSPARENCY

IMPROVEMENT

- GROUP VISIBILITY
- RIDE RANKING
- SCROLL ISSUES ON MOBILE
- DISPLAY OF CONNECTIONS IN PROFILE
- WHOLE-DAY SEARCH FILTER



SOCIAL IMPACT



- PROMOTES CARPOOLING AND REDUCES CARBON EMISSIONS
- ENSURES WOMEN'S SAFETY WITH GENDER-RESTRICTED RIDES
- ENCOURAGES COMMUNITY TRUST AND ECO-CONSCIOUS BEHAVIOR
- CONTRIBUTES TO SDG 11 (SUSTAINABLE CITIES & COMMUNITIES)

FUTURE DIRECTIONS

- EXPAND TO MULTI-CAMPUS NETWORKS
- INTEGRATE AI-BASED RIDE PREDICTION AND DYNAMIC MATCHING
- ADD IN-APP SAFETY ANALYTICS
- CREATE A LEADERBOARD FOR ECO-FRIENDLY RIDES
- PARTNER WITH COLLEGE TRANSPORT DEPARTMENTS

