



# trailtalk

THE OFFICIAL USTP CAMPUS COMMUNICATION  
PLATFORM



Team OrbiVox

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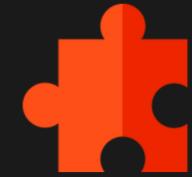
PRESENTED BY TEAM ORBIVOX

# Problem Statement

## Campus Communication is Broken

### Fragmented

Students check Facebook groups, emails, Messenger, bulletin boards



### Unofficial

No university-backed space for open dialogue



### Inefficient

Hard to find academic help, department updates, campus news



### Unsafe

Unmoderated spaces lead to harassment, scams, misinformation



### Impersonal

Students hesitate to approach faculty directly



We don't just need another mental health app—we need a unified campus communication hub.



# Our Solution

**TrailTalk centralizes all campus communication into one secure, official, and organized platform**

- ✓ Dual Interfaces for Students & Faculty
- ✓ Structured Categories (Academic, Campus, Rants, Support, General)
- ✓ Anonymous + Accountable Posting
- ✓ Real-Time Chat & Notifications
- ✓ Community & Department Channels
- ✓ Built-in Moderation & Reporting



From chaos → clarity. From scattered → centralized



# Student Experience – Core Features

## Built for Students

**Anonymous & Public Posting** – Share safely in Academic, Campus, or Support categories

**Join Interest-Based Communities** – Find your department, club, or hobby space

**Real-Time Chat** – Message faculty or peers directly

**Smart Notifications** – Stay updated on interactions and announcements

**Report & Safety Tools** – Flag inappropriate content instantly

*Designed around student needs: privacy, connection, and ease of use.*



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# Faculty Experience – Core Features



## Built for Faculty

**Post & Announce** – Share updates, resources, and pinned notices

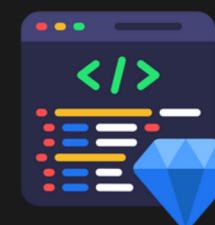
**Direct Messaging** – Reach students individually or in groups

**Moderation Dashboard** – Review and act on reported content

**Community Leadership** – Create and manage official department channels

**Anonymous Support** – Guide students through sensitive topics safely

*Empowering faculty to connect, moderate, and mentor—all within the same platform.*



# Key Technical Features

## Under the Hood

**Real-Time Everything** – Live updates for posts, chats, notifications

**Role-Based UI** – Separate screens for Student & Faculty

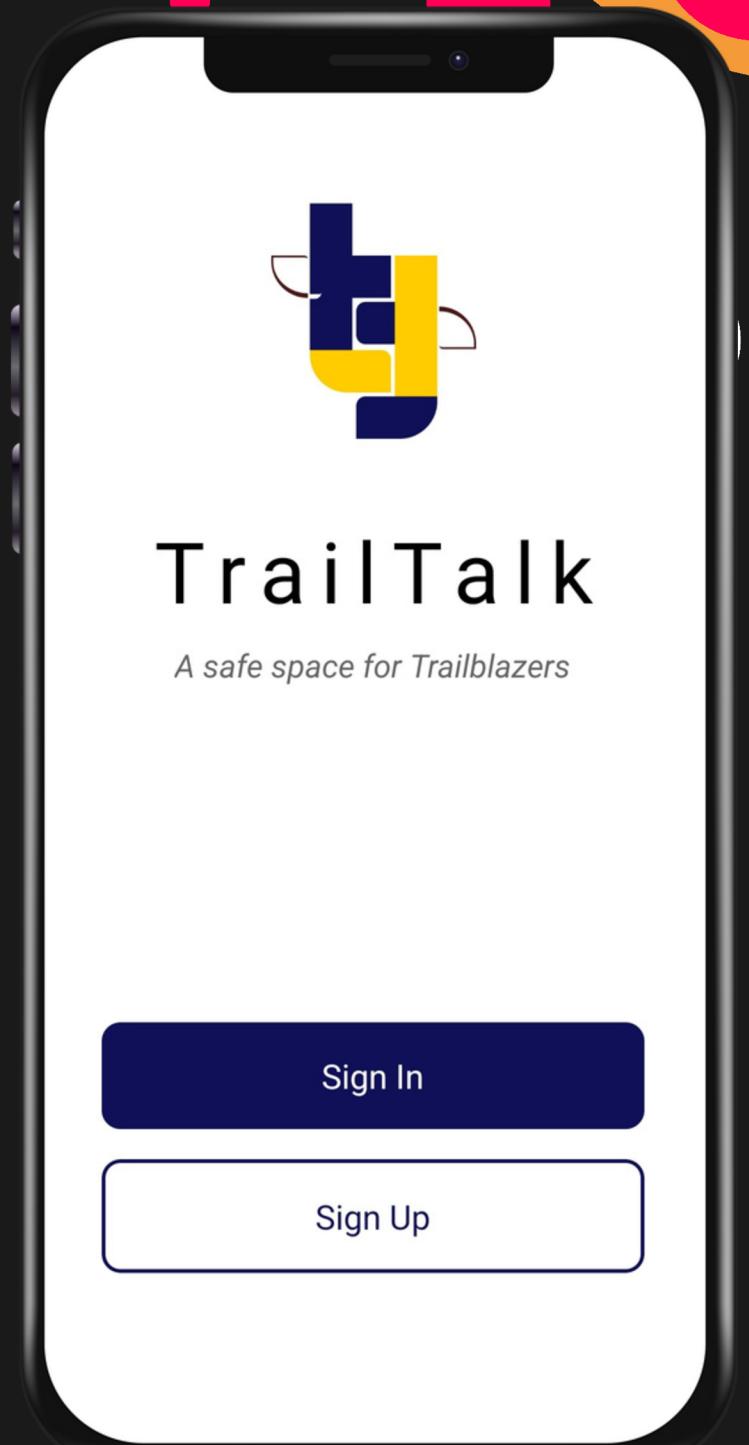
**Secure Authentication** – Supabase RLS (Row-Level Security)

**Moderation Suite** – Reporting, banned words, admin actions

**Community System** – Join/create, real-time member sync

**Media Upload** – Images in posts & profiles

**APK-Ready** – Fully built, tested, deployable



# ff Database & Architecture

## Scalable Backend Built on Supabase

24+ Database Tables including:

**profiles, students, faculty** (user management)

**posts, comments, likes, reposts** (social features)

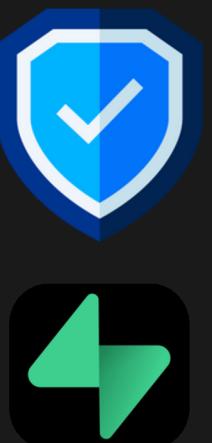
**communities, community\_members, community\_posts**

**conversations, messages** (chat system)

**reports, banned\_words** (moderation)

**notifications** (real-time alerts)

All secured with **RLS policies** and real-time subscriptions.



# Impact & Benefits

## Problems We Solve

Problem	How TrailTalk Solves It
Fragmented communication	One official platform for all campus interactions
No anonymous safe space	Anonymous posting with accountability
Faculty-student gap	Structured channels for academic help
Unmoderated platforms	Built-in reporting & faculty moderation
No community spaces	Join/create department & interest groups

*"We improve campus communication, safety, connectivity, and support—all in one app."*

# Conclusion & Next Steps

## We Built the Complete Campus Commons

TrailTalk is:

- A functional social platform
- A moderated safe space
- An academic support tool
- A community builder
- A real-time communication hub
- APK-ready for deployment

### Next Steps:

1. USTP-wide pilot testing
2. Department onboarding
3. Feature expansion based on feedback

*"We didn't just imagine a solution—we built it."*

gf



# THANK YOU

Team TrailTalk

