

**Department of Artificial Intelligence and Machine
Learning**

AI19441-WEB DEVELOPMENT

MINI PROJECT

“UTRACKK- Tracking, Resolving, and Security Hub”

**Project by,
SIVABALAN T (221501138)
SHRINITHI S (221501135)**

- Abstract
- Introduction to Problem Domain
- Existing System
- Drawback of Existing System
- Proposed System
- Architecture
- Tech Stack
- Key Features
- Use Case
- Output
- Conclusion

UTRACKK is an website which offers Staff availability tracking, a web-based complaint box, enhancing communication, efficiency, and data security within educational institutions.

1. Staff Availability Tracking:

- Real-time availability status of staff.
- Facilitates efficient scheduling of appointments and meetings.

2. Web-based Complaint Box:

- Platform for anonymous submission of complaints and feedback.
- Ensures transparency and accountability within the institution.
- Routes complaints to appropriate authorities for resolution.

INTRODUCTION TO PROBLEM DOMAIN

- In educational settings, **managing staff availability**, **handling complaints** effectively, and **safeguarding student privacy** are critical challenges. Traditional methods often lack real-time tracking, transparency in complaint resolution, and secure data handling.
- To address these issues, we propose a web-based platform offering real-time officer availability tracking and streamlined complaint handling. Our solution aims to enhance communication, accountability, and privacy within educational institutions, fostering a more efficient and student-focused environment.

EXISTING SYSTEM

- Current educational management systems like PowerSchool and Blackboard provide functionalities such as **attendance tracking**, **academic record management**, and **communication portals**.
- These platforms help manage student information, track academic progress, and facilitate communication between students, faculty, and administration.
- While comprehensive, these systems primarily focus on **administrative tasks** and lack integration of real-time staff availability tracking and a structured complaint submission process.

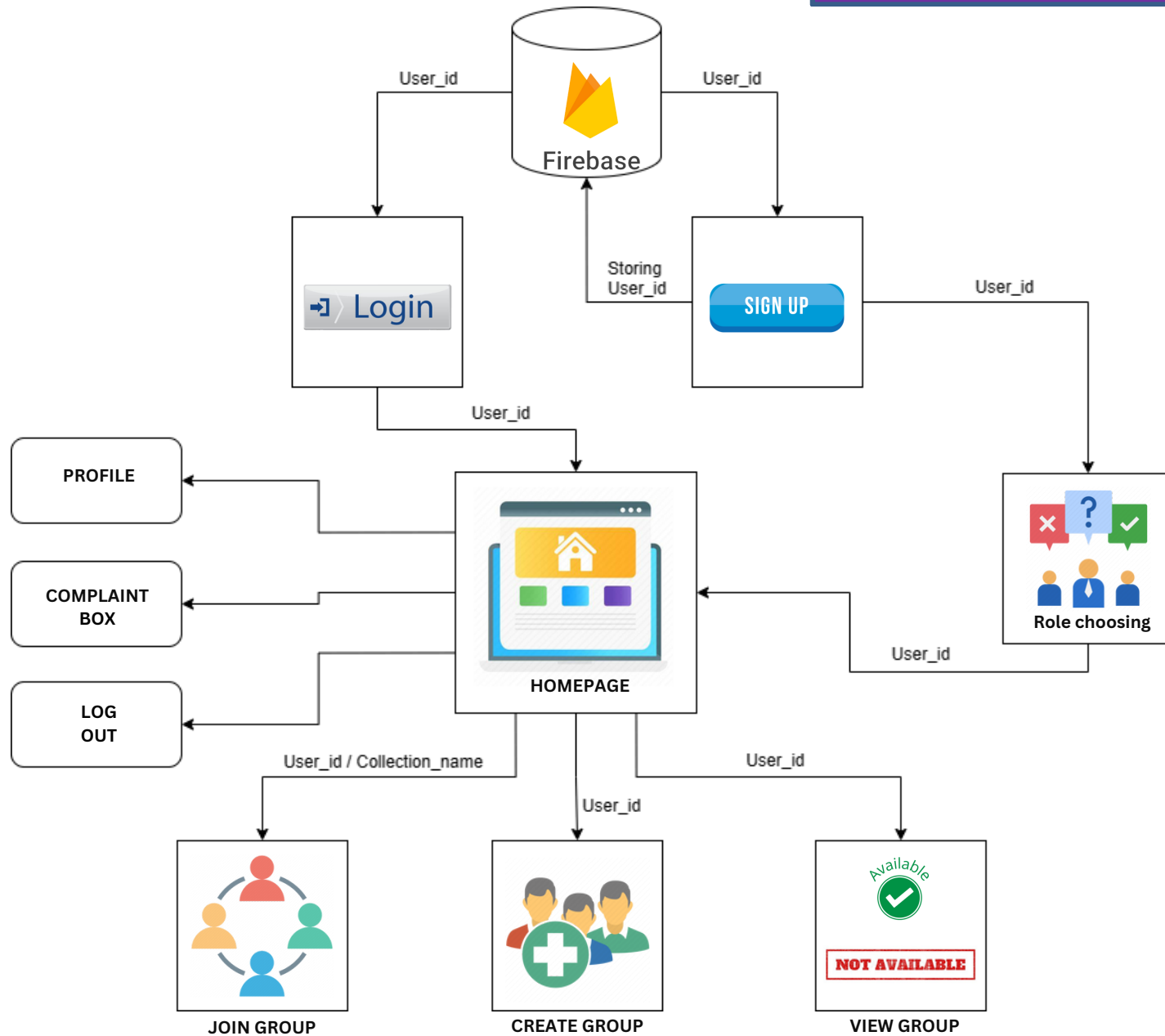
DRAWBACKS OF THE EXISTING SYSTEM

- The main drawbacks of existing educational management systems are their **lack of real-time staff availability tracking** and a structured, secure complaint submission process.
- These systems often result in **inefficient scheduling** and coordination due to the **absence of real-time data**.
- Additionally, the lack of an organized platform for submitting and managing complaints can lead to unresolved issues and reduced stakeholder satisfaction.
- This fragmentation hampers overall operational efficiency and transparency within educational institutions.

PROPOSED SYSTEM

- UTRACKK addresses current system gaps by integrating real-time **staff availability tracking** and a **web-based complaint box** that includes the details of the complaint giver.
- Utilizing modern web technologies and secure data handling practices, UTRACKK **enhances communication, transparency, and efficiency.**
- This system improves scheduling by providing real-time availability data and ensures effective management of complaints, fostering a culture of accountability and **responsiveness within educational institutions.**

ARCHITECTURE



- **HTML** -for structure
- **CSS** - for styling
- **JAVASCRIPT** - for interaction
- **FIREBASE**- for storing data
- **PYTHON FLASK**- for backend framework



- Real-time **staff availability tracking** for efficient scheduling.
- Secure **web-based complaint submission** with detailed information.
- Enhanced **communication and transparency** within institutions.
- Robust **data security and modern web technologies** for reliability.

- **Student:** Checks advisor availability, schedules meeting.

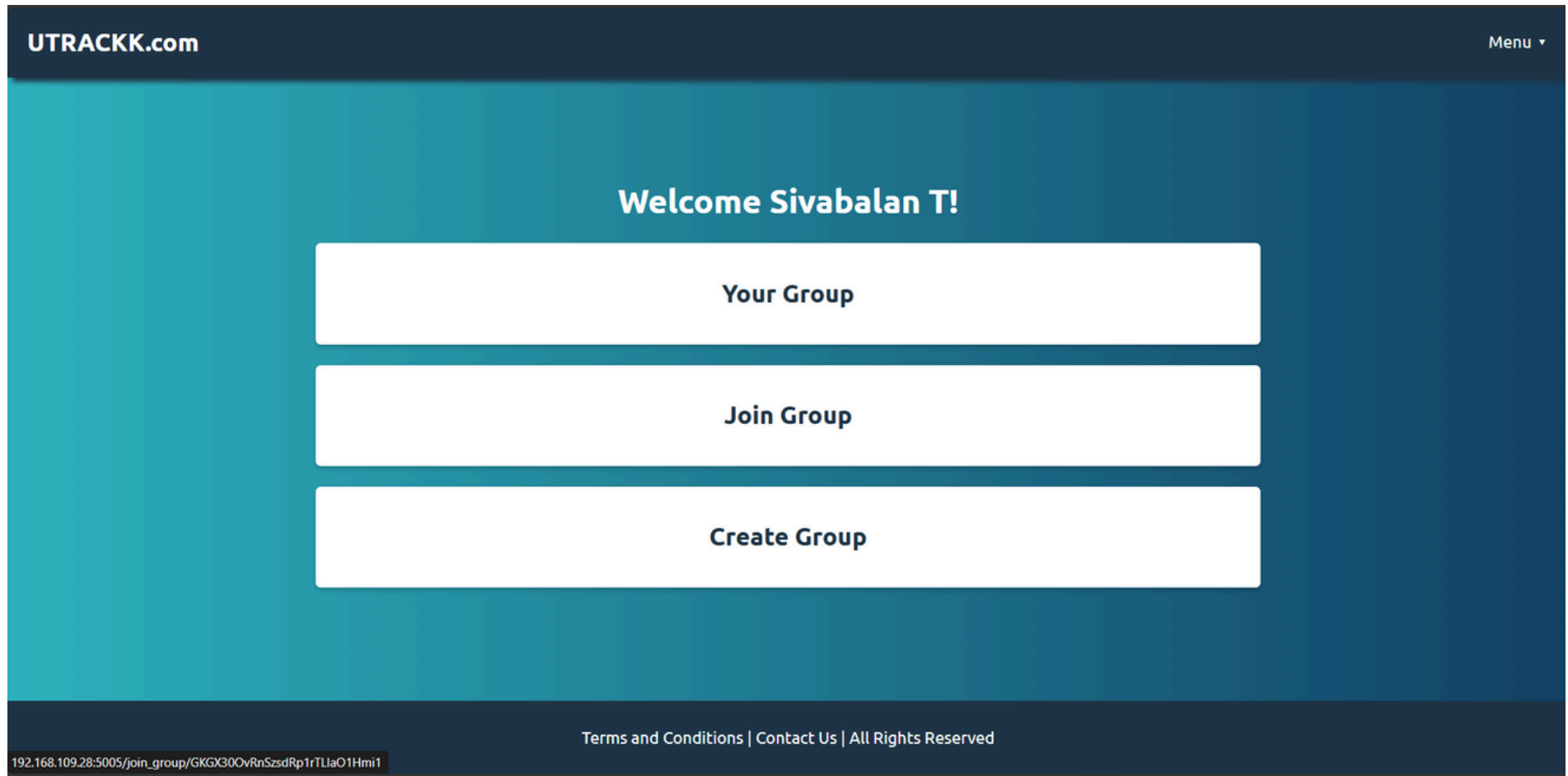


- **Employee:** Knows the manager availability easily.



- **Participant:** Provides venue feedback easily





Your Groups

AIML_C Friends
(3 members)

AIML_C Friends

You
Sivabalan T

(Not Available)

Venue: b209

Change Availability

Change Venue

Shrinithi S

(Available)

Venue: B- Block

Sudharsan

(Available)

Venue: B402

Leave Group

Conclusion

In conclusion, UTRACKK enhances educational management by integrating real-time staff availability tracking and a secure complaint system. This improves efficiency, communication, and accountability, addressing key gaps in current systems.

THANK YOU