

Teammate Reputation System (TRS)

Team 6 second week progress report

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Overview

1. Introduction
2. Simple System Diagram
3. Demonstration
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Intro: Team members

Anar Nyambayar

Fav code editor:

Neovim



A screenshot of the Neovim code editor. The status bar at the bottom shows 'Tue Feb 10 22:22:32 EST 2024' and 'models.py (~Developer/Teammate-Reputation-System-TRIS-1) - Neovim'. The code editor displays Python code for a 'Contact' class with methods like __init__, __str__, __dict__, and to_dict(). The file explorer sidebar on the left shows a project structure with files like README.md, app.py, config.py, models.py, requirements.txt, and tsconfig.json.

Feiyang Zhong

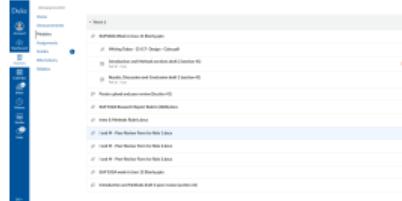
Heading to:
Duke Summer Research

Feeling:
Nervous & excited



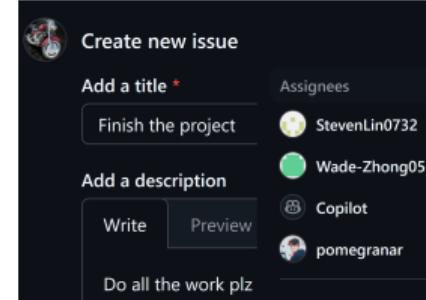
Hongtian Lin

Torn apart by EAP



Yuxiang Lin

Fav code editor:
GitHub Issues



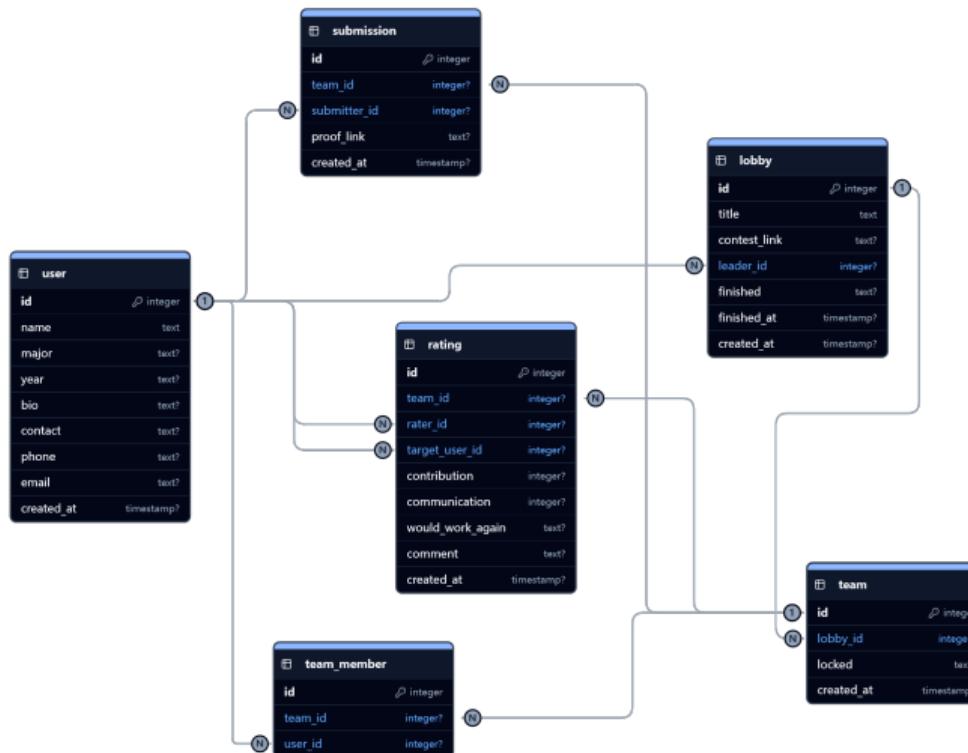
A screenshot of a GitHub Issues page for a repository named 'Yuxiang Lin'. The page has sections for 'Create new issue', 'Add a title *', 'Assignees' (listing 'StevenLin0732' and 'Wade-Zhong05'), 'Finish the project', 'Add a description', 'Write' (with a note 'Do all the work plz'), 'Preview', and 'Copilot'. A note at the bottom says: 'This will provide more details about the program and course enrollment later.'

Intro: Backend

- **Framework:** Flask (Python) with server-side rendered pages (Jinja2 templates)
- **Data layer:** Flask-SQLAlchemy (SQLAlchemy ORM)
- **Database:** SQLite (local file DB, e.g., `teamrank.db`)
- **Models / tables:** User, Lobby, Team, TeamMember, Submission, Rating
- **How data access works:** Python objects → ORM queries → generated SQL
- **Notes:** simple schema evolution for SQLite (no full migration tool yet)



Intro: Database Schema (ER Diagram)



Intro: Database Seeding

- **Goal:** generate stable demo data (no empty pages)
- **Workflow:** reset tables → insert records
- **Seeded:** User, Lobby, Team, TeamMember, Submission, Rating
- **Effect:** /login and /lobbies ready immediately

Run

```
python seed_db.py  
python app.py
```

ID	Name	Major	Year	Reputation	Contact	
1	Alice Zhang	CS	2027	Contest 8.0 - Comm 7.87 WRA 67.0% (+=3)	alice.zhang@example.com	View profile
2	Bob Lin	Math	2026	Contests 7.33 - Comm 8.0 WRA 67.0% (=+3)	bob.lin@example.com	View profile
3	Cathy Wu	Data Science	2027	Contests 7.33 - Comm 8.33 WRA 67.0% (=+3)	cathy.wu@example.com	View profile
4	David Chen	ECE	2026	Contests 8.0 - Comm 8.67 WRA 67.0% (=+3)	david.chen@example.com	View profile
5	Evan Li	Business	2028	Contests 7.47 - Comm 8.0 WRA 67.0% (=+3)	evan.li@example.com	View profile
6	Fiona Wang	CS	2028	Contests 7.47 - Comm 8.33 WRA 67.0% (=+3)	fiona.wang@example.com	View profile
7	Grace Zhao	Statistics	2027	Contests 7.47 - Comm 7.0 WRA 67.0% (=+3)	grace.zhao@example.com	View profile
8	Henry Sun	Physics	2026	Contests 7.47 - Comm 7.33 WRA 67.0% (=+3)	henry.sun@example.com	View profile

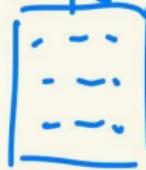
Lobbies						
Browse active lobbies and contest links.						
Contest J	4 members	Open	Lobby ID: 10	Contest I	4 members	Locked
https://example.com/contest-j		Open	Lobby ID: 9	https://example.com/contest-i		Open
Contest G	1 member	Locked	Lobby ID: 7	Contest F	4 members	
https://example.com/contest-g		Open	Lobby ID: 6	https://example.com/contest-f		Open
Hackathon D	4 members	Finished	Lobby ID: 4	Hackathon C	4 members	Finished
https://example.com/hackathon-d		Open	Lobby ID: 3	https://example.com/hackathon-c		Open
Hackathon A	4 members	Finished	Lobby ID: 2	Hackathon B	4 members	Finished
https://example.com/hackathon-a		Open	Lobby ID: 1	https://example.com/hackathon-b		Open

Diagram

TRS

select team members | Ranking | personal information

People



Contest



1 2 3 4 5

1 2 3 4 5

:

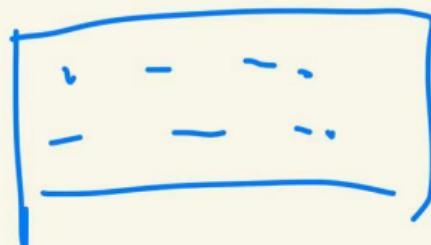
Name

Ability

CV

Personal
Grade

clear
Simple



Demonstration

The screenshot shows the homepage of the TRS application. At the top, there is a dark header bar with the text "TRS" and navigation links for "Home", "Users", and "Lobbies". On the far right of the header is a blue "Login" button. Below the header is a large white content area with a rounded rectangle containing the main title and subtitle. The title is "Teammate Reputation System (TRS)" in a large, bold, dark font. The subtitle is "A lightweight demo for finding teammates and building reputation across teams and contests." in a smaller, regular font. Below the subtitle are two buttons: a blue one labeled "Browse lobbies" and a white one labeled "View users". The main content area is divided into two sections: "Users" on the left and "Lobbies" on the right. Each section has a title, a brief description, and a blue "Go to [section]" button. The "Users" section title is "Users", its description is "See seeded users and their basic info.", and its button is "Go to users". The "Lobbies" section title is "Lobbies", its description is "Discover teams recruiting for contests and projects.", and its button is "Go to lobbies".

TRSS Home Users Lobbies Login

Teammate Reputation System (TRS)

A lightweight demo for finding teammates and building reputation across teams and contests.

[Browse lobbies](#) [View users](#)

Users
See seeded users and their basic info.
[Go to users](#)

Lobbies
Discover teams recruiting for contests and projects.
[Go to lobbies](#)

Live demonstration of the entire user flow.

AI Applications in Use

- Assisting Frontend Development
- Assisting Backend Development
- AI-driven Task Division & Planning

AI Applications Not Used

- **Core Algorithm Derivation & System Design**

Next Steps

- Implement the “handshake” join flow (replace instant join): request → leader review → accept/reject
- Upgrade frontend design to rely less on textual information + represent a person's reputation in a visual format.
- Add CV/resume field for profile
- Add logic tests (unit tests, integration tests)
- Refactor for modularity in both backend and frontend logic.

Quiz

<https://create.kahoot.it/share/bk2-week2-quiz/4562fe66-a9f3-4cd2-97cb-f02e61b6a96b>

The End