

Teammate Reputation System (TRS)

Second week progress report

Anar Nyambayar Wade Zhong Hongtian Lin Yuxiang Lin

Duke Kunshan University

February 11, 2026

Overview

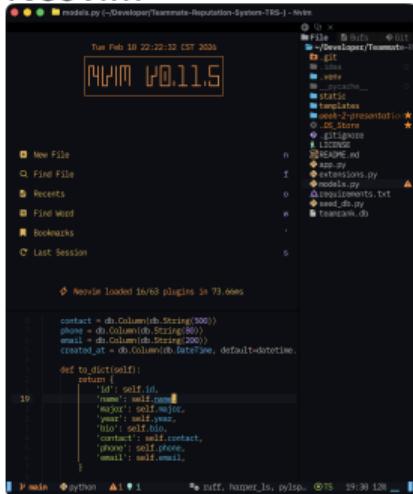
1. Introduction
2. Simple System Diagram
3. Demonstration
4. AI Statement
5. Quiz

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-TRS-1) - Neovim'. The code editor displays Python code for a 'Contact' class with methods like __init__, __str__, 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 testcases.py.

Feiyang Zhong

Heading to:

Duke Summer Research

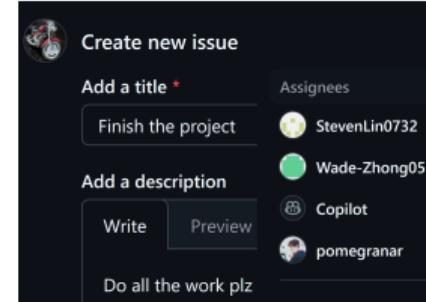
Feeling:

Nervous & excited



Yuxiang Lin

Fav code editor:
GitHub Issues



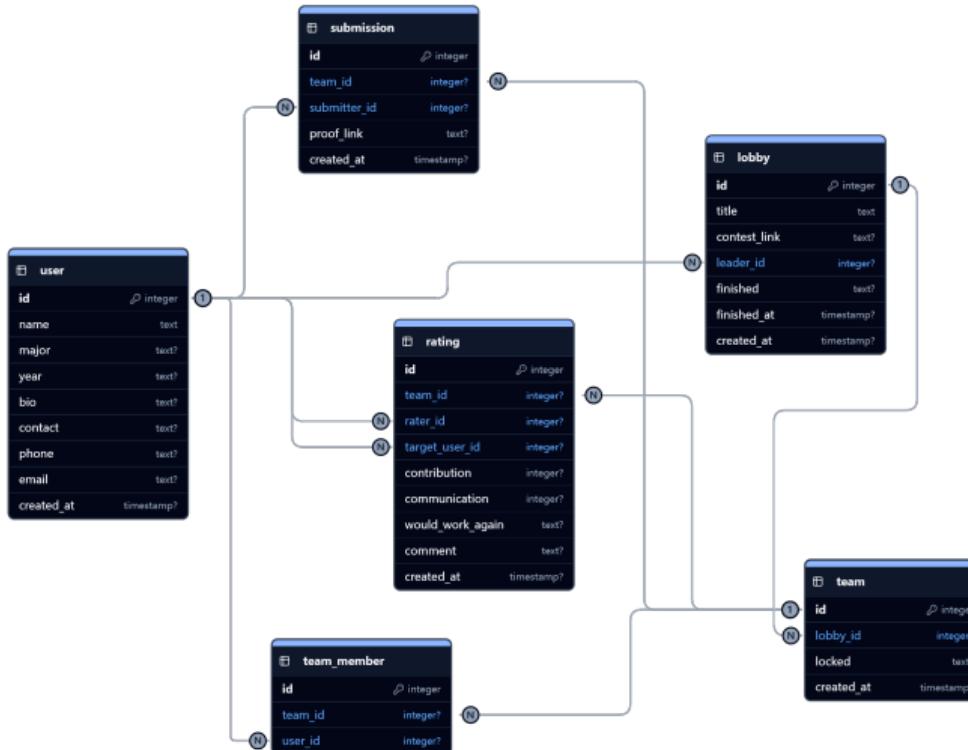
A screenshot of the GitHub Issues interface. A new issue is being created with the title 'Finish the project'. The assignees listed are StevenLin0732 and Wade-Zhong05. There are buttons for 'Add a title' (with a red asterisk), 'Assignees', 'Add a description', 'Write' (highlighted), 'Preview', and 'Do all the work plz'.

Hongtian Lin

- **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)



Database Schema (ER Diagram)



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

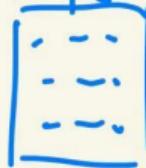
Lobbies						
Browse active lobbies and contest links.						
Contest J	4 members	Open	Lobby ID: 10	Contest I	4 members	Locked
https://example.com/contest-j		Open	Lobby ID: 9	https://example.com/contest-i		Open
Contest G	1 member	Locked	Lobby ID: 7	Contest F	4 members	
https://example.com/contest-g		Open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

Diagram

TRS

select team members | Ranking | personal information

People



Contest

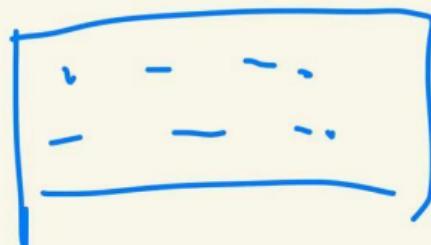


clear
Simple

1 2 3 4 5

1 2 3 4 5

:



Name

Ability

CV

Personal
Grade

Demonstration

The screenshot shows the homepage of the Teammate Reputation System (TRS). At the top, there is a dark header bar with the TRS logo, a navigation menu (Home, Users, Lobbies), and a blue 'Login' button. Below the header is a large white container with rounded corners. In the center of this container is a title section with the heading 'Teammate Reputation System (TRS)' and a subtitle 'A lightweight demo for finding teammates and building reputation across teams and contests.' Below the title are two buttons: 'Browse lobbies' (blue background) and 'View users' (white background). Further down, there are two more sections: 'Users' (with a description and a 'Go to users' button) and 'Lobbies' (with a description and a 'Go to lobbies' button).

TRS 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](#)

Demo of the full workflow

The End