

# Teammate Reputation System (TRS)

Team 6 second week progress report

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Duke Kunshan University

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# Overview

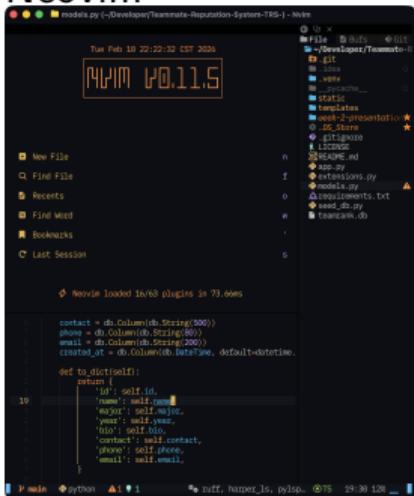
1. Introduction
2. Simple System Diagram
3. Demonstration
4. AI Statement
5. Next steps
6. Quiz

# 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) - Nvim'. 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



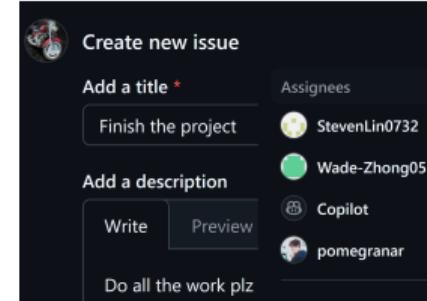
## Hongtian Lin

Torn apart by EAP



## Yuxiang Lin

Fav code editor:  
GitHub Issues



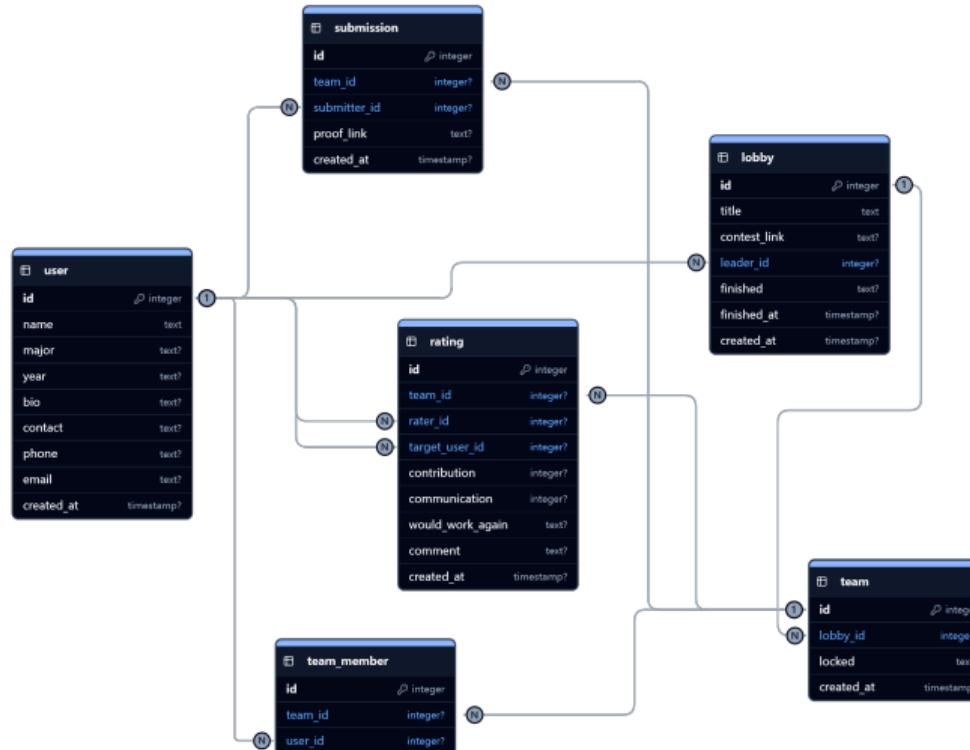
A screenshot of a GitHub 'Create new issue' form. The form includes fields for 'Add a title \*' (with 'Finish the project' selected), 'Assignees' (with 'StevenLin0732' and 'Wade-Zhong05' listed), 'Add a description' (with 'Write' and 'Preview' buttons), and a large text area containing the text 'Do all the work plz'.

# 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	<a href="#">View profile</a>
2	Bob Lin	Math	2026	Contests 7.33 - Comm 8.0 WRA 67.0% (=+3)	bob.lin@example.com	<a href="#">View profile</a>
3	Cathy Wu	Data Science	2027	Contests 7.33 - Comm 8.33 WRA 67.0% (=+3)	cathy.wu@example.com	<a href="#">View profile</a>
4	David Chen	ECE	2026	Contests 8.0 - Comm 8.67 WRA 67.0% (=+3)	david.chen@example.com	<a href="#">View profile</a>
5	Evan Li	Business	2028	Contests 7.47 - Comm 8.0 WRA 67.0% (=+3)	evan.li@example.com	<a href="#">View profile</a>
6	Fiona Wang	CS	2028	Contests 7.47 - Comm 8.33 WRA 67.0% (=+3)	fiona.wang@example.com	<a href="#">View profile</a>
7	Grace Zhao	Statistics	2027	Contests 7.47 - Comm 7.0 WRA 67.0% (=+3)	grace.zhao@example.com	<a href="#">View profile</a>
8	Henry Sun	Physics	2026	Contests 7.47 - Comm 7.33 WRA 67.0% (=+3)	henry.sun@example.com	<a href="#">View profile</a>

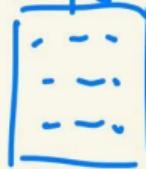
Lobbies						
Browse active lobbies and contest links.						
Contest J	4 members	<a href="#">Open</a>	Lobby ID: 10	Contest I	4 members	<a href="#">Locked</a>
<a href="#">https://example.com/contest-j</a>		<a href="#">Open</a>	Lobby ID: 9	<a href="#">https://example.com/contest-i</a>		<a href="#">Open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

# Diagram

TRS

select team members | Ranking | personal information

People



Contest



1 2 3 4 5

1 2 3 4 5

:

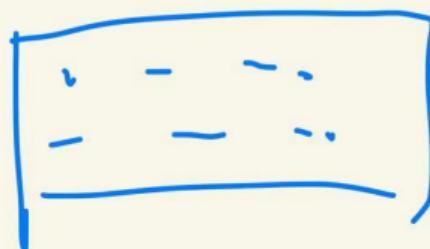
Name

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 rounded corners. In the center of this area, the text "Teammate Reputation System (TRS)" is displayed in a large, bold, black font. Below this title is a subtitle: "A lightweight demo for finding teammates and building reputation across teams and contests." Underneath the subtitle are two buttons: a blue "Browse lobbies" button and a white "View users" button. At the bottom of the page, there are two separate sections. The left section is titled "Users" and contains the text "See seeded users and their basic info." with a blue "Go to users" button below it. The right section is titled "Lobbies" and contains the text "Discover teams recruiting for contests and projects." with a blue "Go to lobbies" button below it.

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

- Upgrade frontend design to rely less on textual information + represent a person's reputation in a visual format.

# Quiz

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

# The End