

# Teammate Reputation System (TRS)

Second week progress report

Anar Nyambayar   Wade Zhong   Hongtian Lin   Yuxiang Lin

Duke Kunshan University

February 11, 2026

# Overview

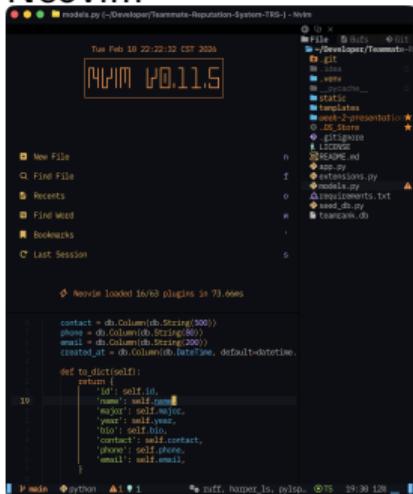
1. Introduction
2. Demonstration
3. AI Statement
4. Quiz

# 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 'User' 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.

```
class User(db.Model):
    id = db.Column(db.String(300))
    name = db.Column(db.String(200))
    email = db.Column(db.String(200))
    created_at = db.Column(db.DateTime, default=datetime.utcnow)

    def to_dict(self):
        return {
            'id': self.id,
            'name': self.name,
            'email': self.email,
            'year': self.year,
            'bio': self.bio,
            'contact': self.contact,
            'phone': self.phone,
            'email': self.email,
        }
```

## Feiyang Zhong

Heading to:

Duke Summer Research

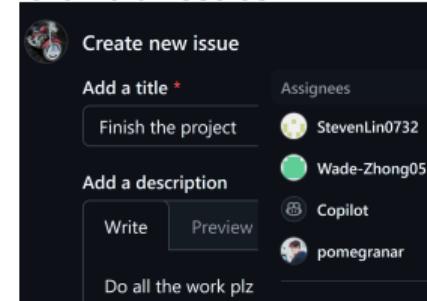
Feeling:

Nervous & excited



## Yuxiang Lin

Fav code editor:  
GitHub Issues



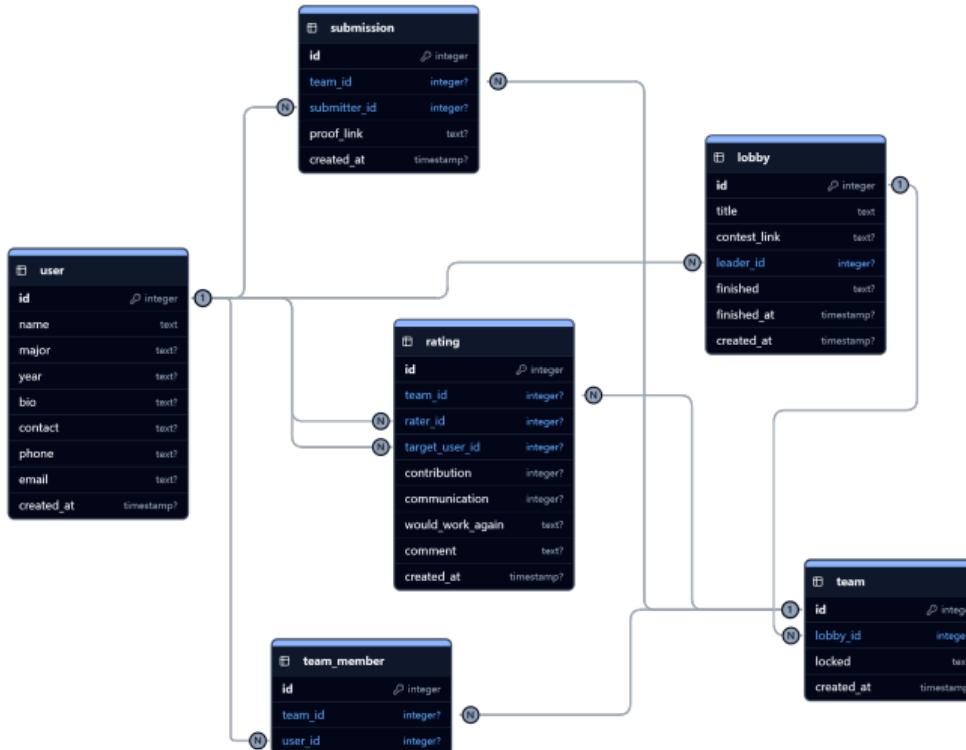
A screenshot of the GitHub Issues interface. A new issue is being created with the title 'Finish the project' and assignees 'StevenLin0732' and 'Wade-Zhong05'. There is a description field with the placeholder 'Add a description' and buttons for 'Write' and 'Preview'. At the bottom, there is a button labeled '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

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="#">Locked</a>	<a href="#">Open</a>	Lobby ID: 10		10 total
<a href="#">https://example.com/contest-j</a>						
Contest I	4 members	<a href="#">Locked</a>	<a href="#">Open</a>	Lobby ID: 9		
<a href="#">https://example.com/contest-i</a>						
Contest H	4 members	<a href="#">Locked</a>	<a href="#">Open</a>	Lobby ID: 8		
<a href="#">https://example.com/contest-h</a>						
Contest G	1 member	<a href="#">Locked</a>	<a href="#">Open</a>	Lobby ID: 7		
<a href="#">https://example.com/contest-g</a>						
Contest F	4 members	<a href="#">Locked</a>	<a href="#">Open</a>	Lobby ID: 6		
<a href="#">https://example.com/contest-f</a>						
Contest E	4 members	<a href="#">Locked</a>	<a href="#">Open</a>	Lobby ID: 5		
<a href="#">https://example.com/contest-e</a>						
Hackathon D	4 members	<a href="#">Finished</a>	<a href="#">Open</a>	Lobby ID: 4		
<a href="#">https://example.com/hackathon-d</a>						
Hackathon C	4 members	<a href="#">Finished</a>	<a href="#">Open</a>	Lobby ID: 3		
<a href="#">https://example.com/hackathon-c</a>						
Hackathon B	4 members	<a href="#">Finished</a>	<a href="#">Open</a>	Lobby ID: 2		
<a href="#">https://example.com/hackathon-b</a>						
Hackathon A	4 members	<a href="#">Finished</a>	<a href="#">Open</a>			
<a href="#">https://example.com/hackathon-a</a>						

Run

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

# 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. Inside, the title 'Teammate Reputation System (TRS)' is displayed in a large, bold, black font. A subtitle below it reads 'A lightweight demo for finding teammates and building reputation across teams and contests.' Two buttons are present: a blue 'Browse lobbies' button and a white 'View users' button. At the bottom of the page, there are 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.

**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](#)

Demo of the full workflow

# The End