

Teammate Reputation System (TRS)

Team 6 second week progress report

Anar Nyambayar Wade Zhong Hongtian Lin Yuxiang Lin

Duke Kunshan University

February 11, 2026

Overview

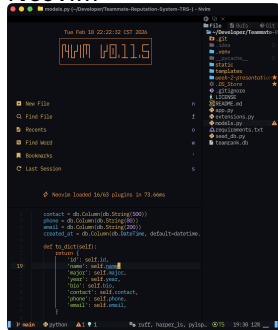
1. Introduction
2. Simple System Diagram
3. Demonstration
4. AI Statement
5. Quiz

Team members

Anar Nyambayar

Fav code editor:

Neovim



Feiyang Zhong

Heading to:

Duke Summer Research

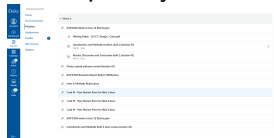
Feeling:

Nervous & excited



Hongtian Lin

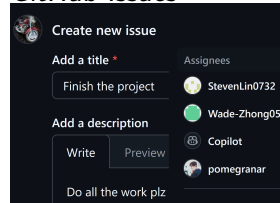
Torn apart by EAP



Yuxiang Lin

Fav code editor:

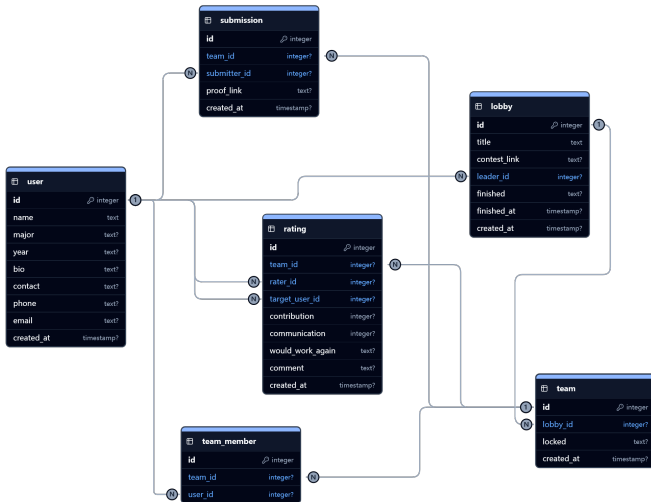
GitHub Issues



- **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	Contests 8.8 · Coren 7.87 · WWA 67.8% (n=3)	alice.zhang@example.com View profile
2	Bob Lin	Math	2026	Contests 7.33 · Coren 8.8 · WWA 67.0% (n=3)	bob.lin@example.com View profile
3	Cathy Wu	Data Science	2027	Contests 7.33 · Coren 8.33 · WWA 67.0% (n=3)	cathy.wu@example.com View profile
4	David Chen	ECE	2026	Contests 8.8 · Coren 8.87 · WWA 67.8% (n=3)	david.chen@example.com View profile
5	Evan Li	Business	2028	Contests 7.67 · Coren 8.8 · WWA 67.0% (n=3)	evan.li@example.com View profile
6	Fiona Wang	CS	2026	Contests 7.67 · Coren 8.33 · WWA 67.0% (n=3)	fiona.wang@example.com View profile
7	Grace Zhao	Statistics	2027	Contests 7.67 · Coren 7.8 · WWA 67.0% (n=3)	grace.zhao@example.com View profile
8	Henry Sun	Physics	2026	Contests 7.67 · Coren 7.33 · WWA 67.0% (n=3)	henry.sun@example.com View profile

Lobbies

Browse active lobbies and contest links.

Contest J

4 members

<https://example.com/contest-j>

Open

Lobby ID: 10

Contest I

4 members Locked

<https://example.com/contest-i>

Open

Lobby ID: 9

Contest H

4 members

<https://example.com/contest-h>

Open

Lobby ID: 8

Contest G

4 members Locked

<https://example.com/contest-g>

Open

Lobby ID: 7

Contest F

4 members

<https://example.com/contest-f>

Open

Lobby ID: 6

Contest E

4 members

<https://example.com/contest-e>

Open

Lobby ID: 5

Hackathon D

4 members Finished

<https://example.com/hackathon-d>

Open

Lobby ID: 4

Hackathon C

4 members Finished

<https://example.com/hackathon-c>

Open

Lobby ID: 3

Hackathon B

4 members Finished

<https://example.com/hackathon-b>

Open

Lobby ID: 2

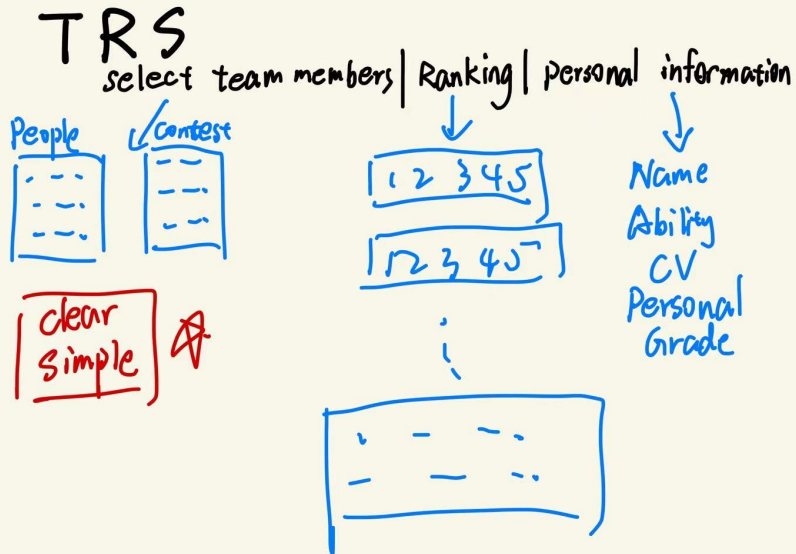
Hackathon A

4 members Finished

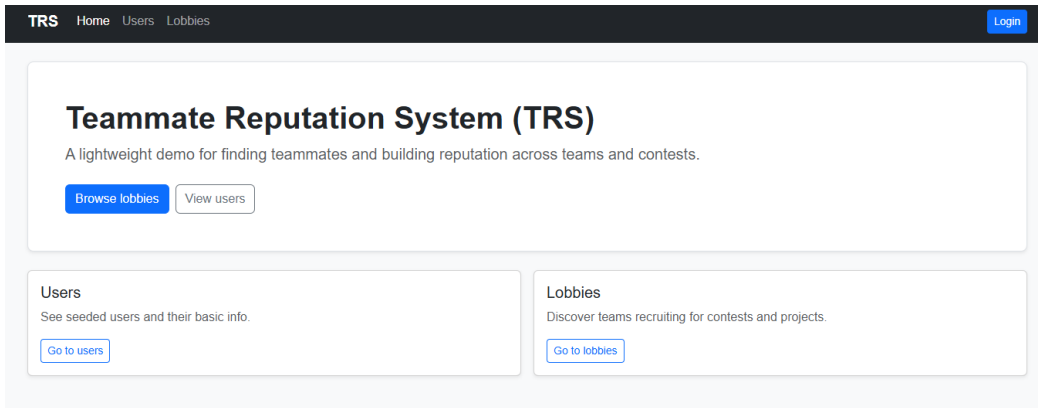
<https://example.com/hackathon-a>

Open

Diagram



Demonstration



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**

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

The End