

# Teammate Reputation System (TRS)

Team 6 second week progress report

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Duke Kunshan University

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# Overview

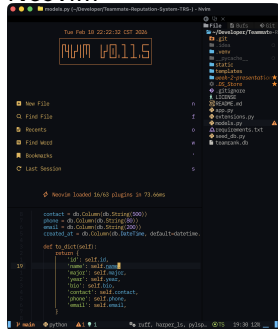
1. Introduction
2. Simple System Diagram
3. Demonstration
4. AI Statement
5. Next steps
6. Quiz

# Intro: Team members

**Anar Nyambayar**

Fav code editor:

Neovim



**Feiyang Zhong**

Heading to:

Duke Summer Research

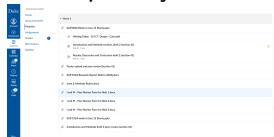
Feeling:

Nervous & excited



**Hongtian Lin**

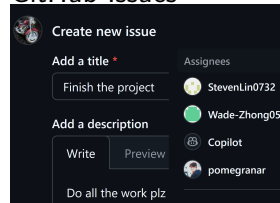
Torn apart by EAP



**Yuxiang Lin**

Fav code editor:

GitHub Issues

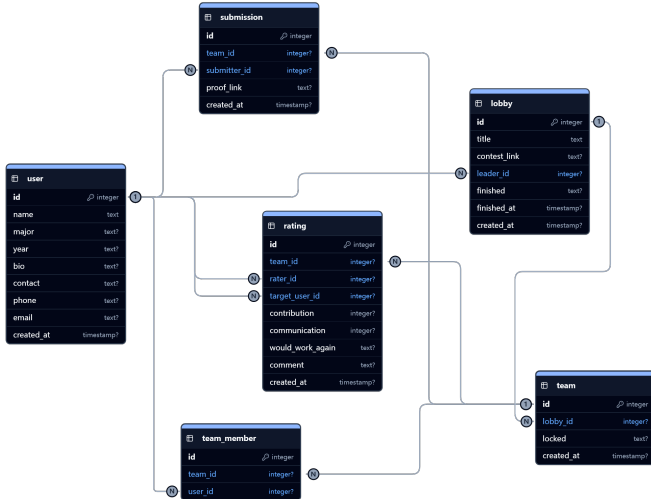


# Intro: Backend

- **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	Contests 8.0 · Coren 7.87 · WWA 67.0% (n=3)	alice.zhang@example.com <a href="#">View profile</a>
2	Bob Lin	Math	2026	Contests 7.33 · Coren 8.0 · WWA 67.0% (n=3)	bob.lin@example.com <a href="#">View profile</a>
3	Cathy Wu	Data Science	2027	Contests 7.33 · Coren 8.33 · WWA 67.0% (n=3)	cathy.wu@example.com <a href="#">View profile</a>
4	David Chen	ECE	2026	Contests 8.0 · Coren 8.87 · WWA 67.0% (n=3)	david.chen@example.com <a href="#">View profile</a>
5	Evan Li	Business	2028	Contests 7.67 · Coren 8.0 · WWA 67.0% (n=3)	evan.li@example.com <a href="#">View profile</a>
6	Fiona Wang	CS	2026	Contests 7.67 · Coren 8.33 · WWA 67.0% (n=3)	fiona.wang@example.com <a href="#">View profile</a>
7	Grace Zhao	Statistics	2027	Contests 7.67 · Coren 7.0 · WWA 67.0% (n=3)	grace.zhao@example.com <a href="#">View profile</a>
8	Henry Sun	Physics	2026	Contests 7.67 · Coren 7.33 · WWA 67.0% (n=3)	henry.sun@example.com <a href="#">View profile</a>

## 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

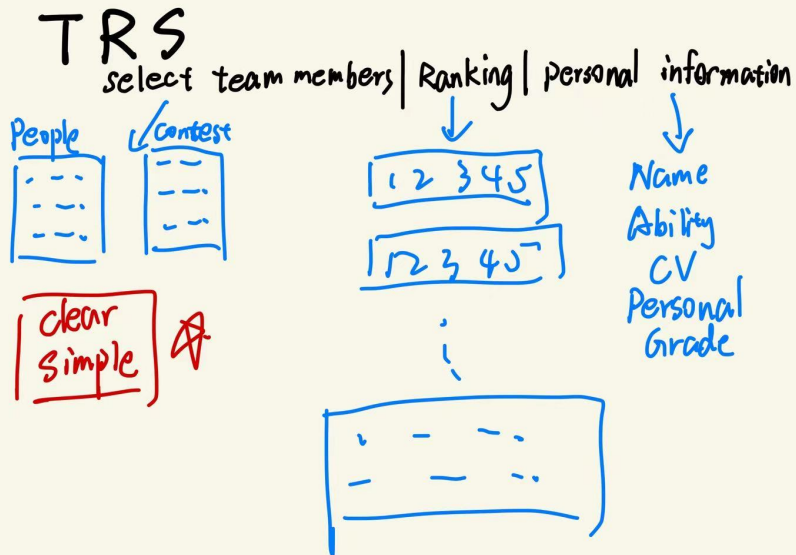
Hackathon A

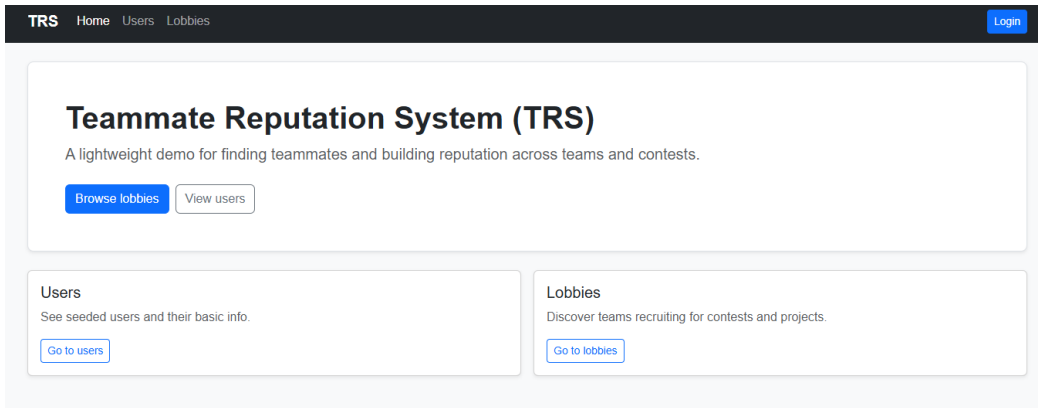
4 members Finished

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

Open

# Diagram





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.

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

# The End