

Teammate Reputation System (TRS)

Team 6 second week progress report

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Duke Kunshan University

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Overview

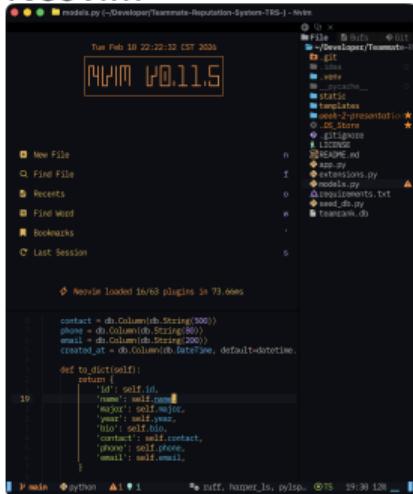
1. Introduction
2. Simple System Diagram
3. Demonstration
4. AI Statement
5. Quiz

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'. 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, requirements.txt, and models.py.

```
models.py (~Developer/Teammate-Reputation-System-TRS-1) - Neovim
Tue Feb 10 22:22:32 EST 2024
MFM F0.11.5

File 5 Bufln 001
- Developer/Teammate-1
  - .git
  - .vscode
  - .wps
  - .pycache_
  - static
  - statics
  - week-2-presentation
  - .DS_Store
    gitignore
    .gitattributes
    .gitignore
    README.md
    app.py
    requirements.txt
    models.py
  requirements.txt
  tsconfig.json

New File
Find File
Recents
Find Word
Bookmarks
Last Session

Neovim loaded 16/63 plugins in 73.66ms

contact = db.Column(db.String(500))
email = db.Column(db.String(250))
createAt = db.Column(db.Date(), default=datetime.datetime.utcnow)

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

19
```

Feiyang Zhong

Heading to:

Duke Summer Research

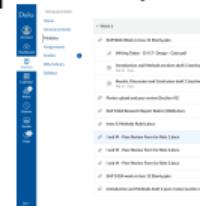
Feeling:

Nervous & excited



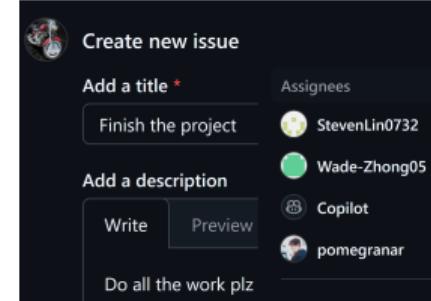
Hongtian Lin

Torn apart by EAP



Yuxiang Lin

Fav code editor:
GitHub Issues

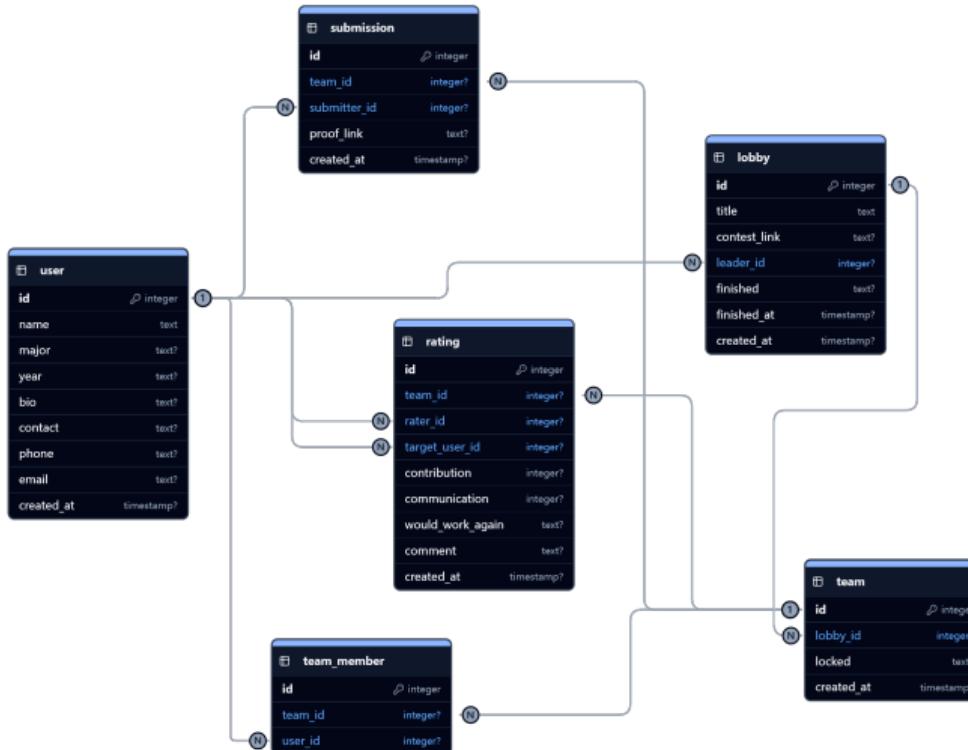


A screenshot of a GitHub Issues interface. The top right shows a 'Create new issue' button. Below it is a form with fields for 'Add a title *' (with 'Finish the project' selected), 'Assignees' (with 'StevenLin0732' and 'Wade-Zhong05' listed), 'Add a description', 'Write' (selected), 'Preview', and 'Do all the work plz'. To the left, there's a sidebar with 'Issues' and a list of issues. The main area shows a list of issues with titles like 'Refactor Model class in Models', 'Merge PR - DLT Design Concept', etc.

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

Run

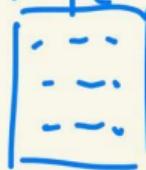
```
python seed_db.py  
python app.py
```

Diagram

TRS

select team members | Ranking | personal information

People



Contest

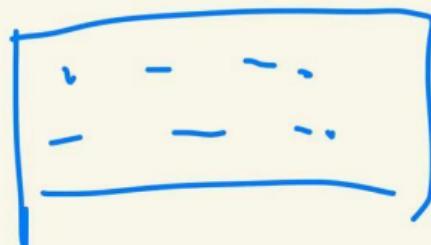


clear
Simple

1 2 3 4 5

1 2 3 4 5

:



Name

Ability

CV

Personal
Grade

Demonstration

The screenshot shows the homepage of the 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 a rounded rectangle containing the main title and subtitle. The title is "Teammate Reputation System (TRS)" in a large, bold, dark font. Below it is a subtitle: "A lightweight demo for finding teammates and building reputation across teams and contests." Underneath the title are two buttons: a blue "Browse lobbies" button and a white "View users" button. Below this section is another rounded rectangle divided into two parts. The left part is labeled "Users" and contains the text "See seeded users and their basic info." with a "Go to users" button. The right part is labeled "Lobbies" and contains the text "Discover teams recruiting for contests and projects." with a "Go to lobbies" 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

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**

Quiz

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

The End