

Pork-Professional-Networking

Repo:<https://github.com/Jayashree-jannu/Prok-Professional-Networking.git>

INTERNSHIP PROGRESS REPORT

Name: Jayashree S

Project Name: *Prok - Professional Networking*

Duration: 2 Months (Ongoing – 2 Weeks Completed)

Mentor: Mr. Aatham Ansari

Type: Team Project

Platform: Ubuntu Linux using Cursor IDE

Project Overview

The project *Prok - Professional Networking* is a full-stack web application development internship involving 16 modules. As of now, I have successfully completed 6 out of 7 assigned modules. The 7th module is currently in progress.

This internship mainly focuses on creating a scalable, modular professional networking platform, and it has given me hands-on experience in both frontend and backend development.

Key Tools & Technologies Used

- **OS:** Ubuntu (Linux)
- **IDE:** Cursor
- **Version Control:** Git, GitHub
- **Frontend:** HTML, CSS, JS (with npm modules)
- **Backend:** Python (with virtual environment and dependencies)
- **Terminal Commands:** Git, Node, npm, pip

What I Learned

- Using Linux terminal for efficient system control and project execution.
- Git commands for version control:
 - `git pull origin master`
 - `git checkout -b module-name`
 - `git push origin branch-name`

Installing frontend dependencies:

```
bash
CopyEdit
cd app/frontend
npm install
```

-

Installing backend dependencies and activating Python virtual environment:

```
bash

cd ../backend
python -m venv venv
source venv/bin/activate
pip install -r requirements.txt
```

-

- Running backend and frontend in separate terminals to view live output.
- Completed modules like:
 - Login/Signup UI
 - Profile Editing

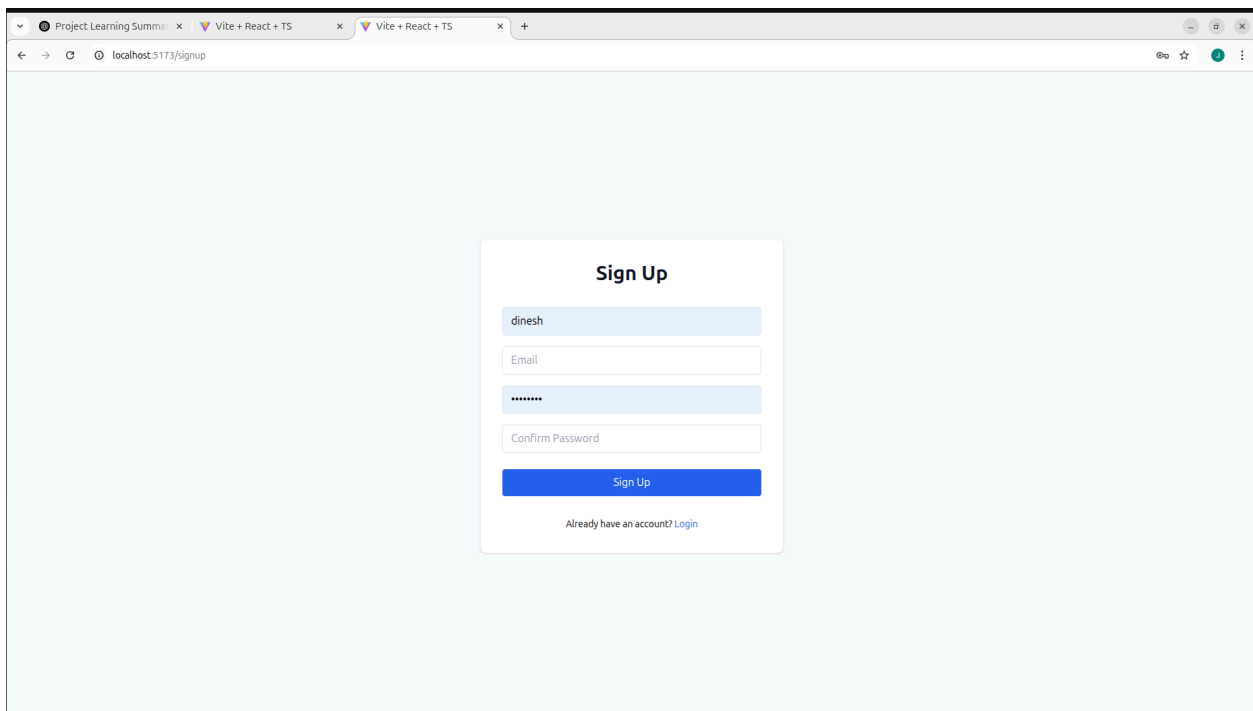
- Post Upload
- Installing necessary libraries and dependencies for each module.
- Understood the importance of step-by-step task execution in development.

Conclusion

This internship has helped me build strong foundational skills in full-stack development, version control, and using Linux systems efficiently. I'm confident that the remaining modules will help me grow further and complete the project successfully under the guidance of my mentor.

MODULE 1:

Signup page:

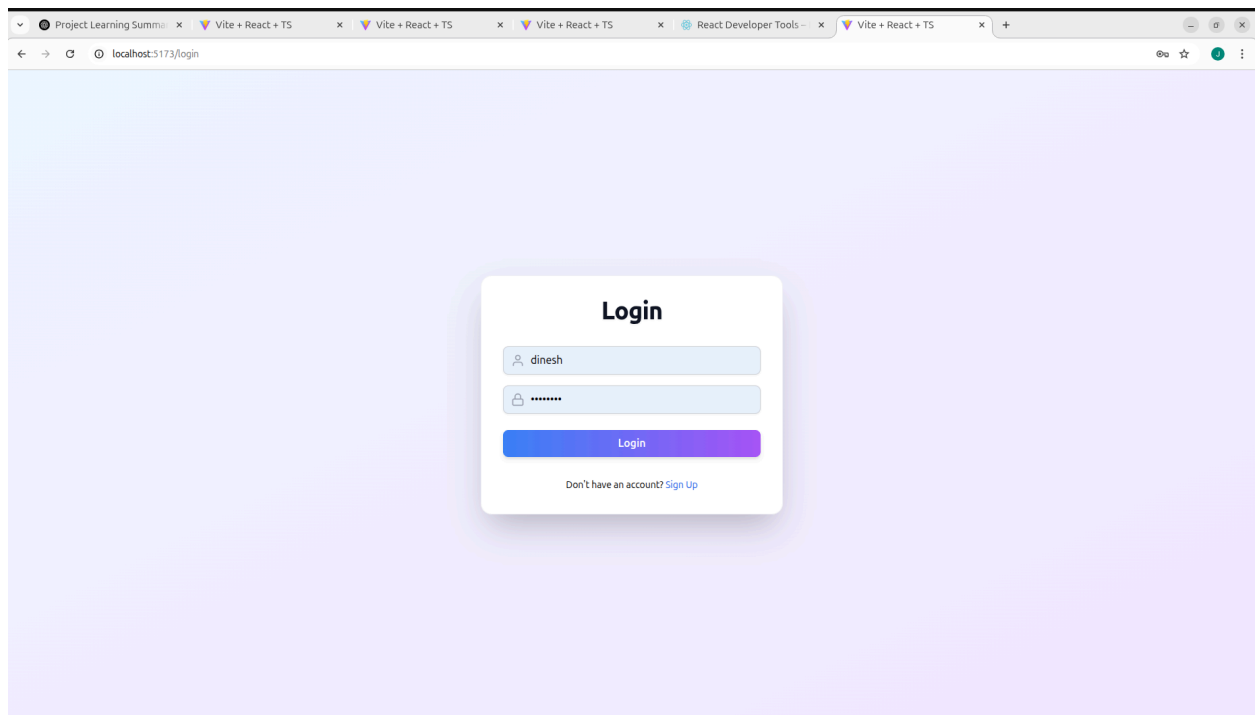


The screenshot shows a web browser window with the address bar displaying 'localhost:5173/signup'. The page has a light blue background. In the center, there is a white card titled 'Sign Up'. The card contains the following elements:

- A text input field with the value 'dinesh'.
- An 'Email' label above a text input field.
- A password input field with masked characters '*****'.
- A 'Confirm Password' label above a text input field.
- A blue 'Sign Up' button.
- A link that says 'Already have an account? Login'.

Signup Page: Complete registration system with user-friendly form, password complexity validation, real-time feedback, and seamless integration with backend authentication API. Both pages are fully responsive and connected to the Flask backend running on port 5000.

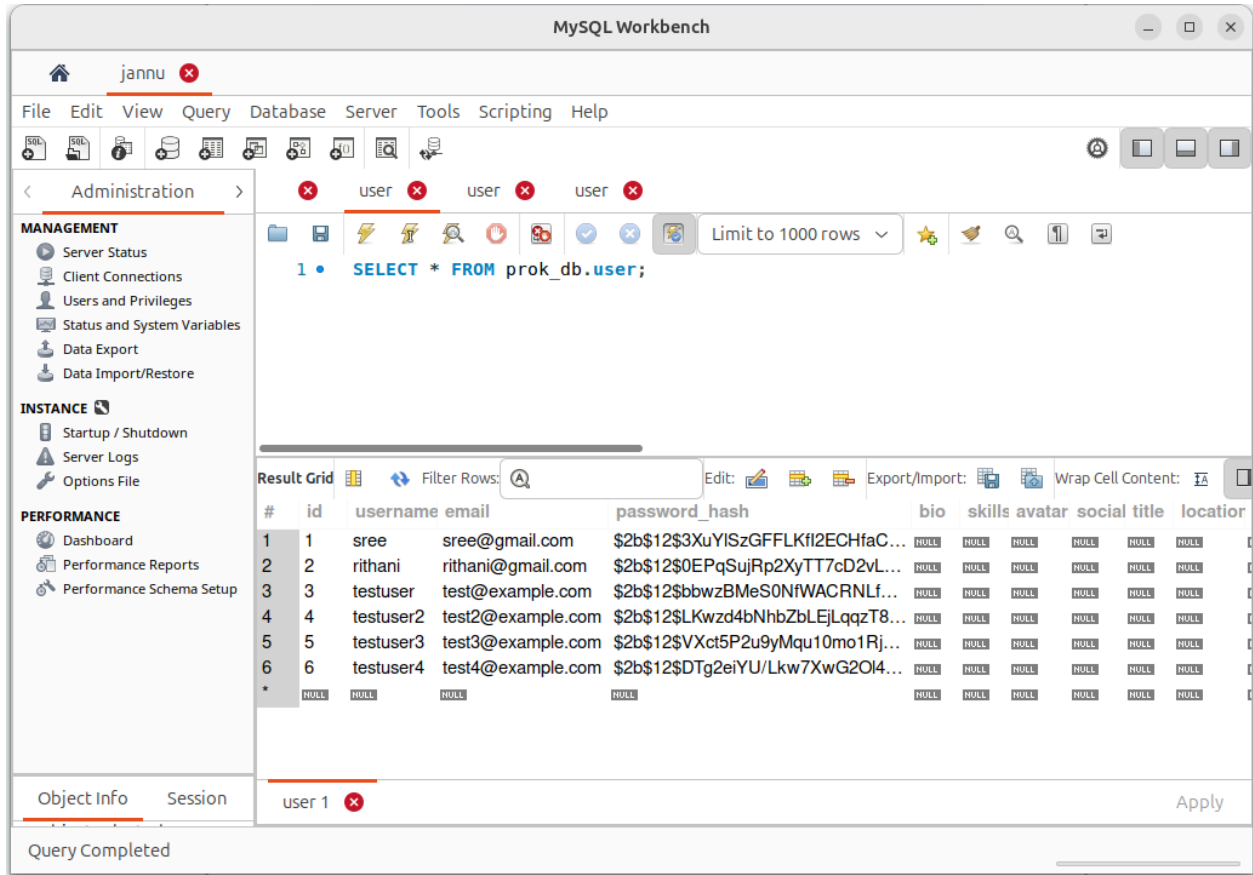
Login Page:



Login Page: Successfully implemented with clean, professional design featuring username/email input, password field, form validation, error handling, and navigation to signup. Removed all testing shortcuts (logout, auto-login, direct login) for production-ready functionality.

Module 2:

Authentication Backend:



Database Setup: Created User model with all profile fields (username, email, bio, skills, etc.) and set up SQLAlchemy database with proper migrations.

Login/Signup API: Built secure authentication endpoints with password hashing, JWT token generation, and input validation for user registration and login.

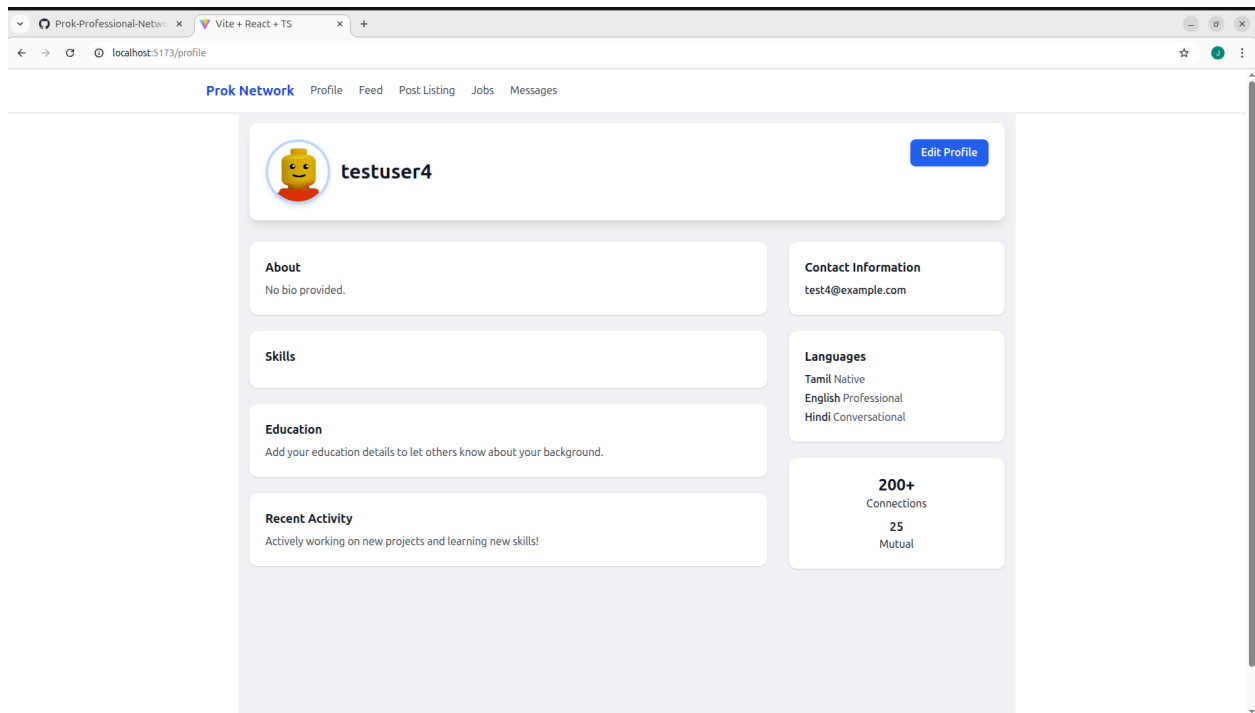
Profile Management: Implemented RESTful API for profile CRUD operations including image upload functionality and real-time profile updates.

Security Features: Added CORS configuration, rate limiting, password complexity validation, and proper JWT token management with configurable expiration.

Error Handling: Implemented comprehensive error handling for duplicate users, invalid credentials, and proper HTTP status codes for all authentication operations.

Module 3:

Profile View & Edit UI:



Drag & drop or click to select an image

Profile Photo

Username

sree

Email

sree@gmail.com

Title

flower

Location

Canada

Bio

3rd year, ECE

Skills (comma separated)

Full stack development, communication

Education

Add Education

LinkedIn URL

Twitter URL

GitHub URL

Cancel

Save Changes

Module 5:

Post creation:

localhost:5173






[Prok Network](#) [Profile](#) [Feed](#) [Post Listing](#) [Jobs](#) [Messages](#)

Create Post

[Preview](#)[Post](#)

Title

Content

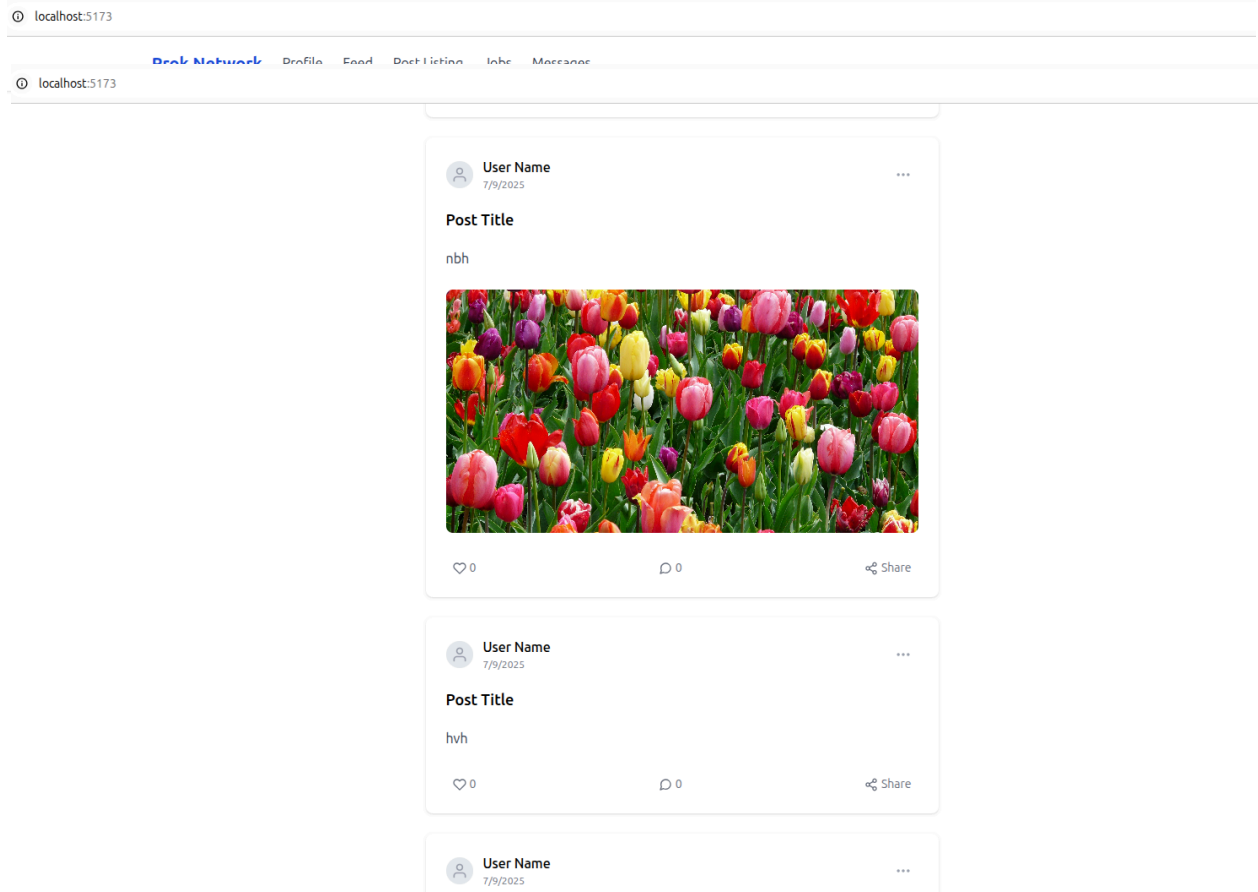
Normal **B** *I* U     

Media



Post Settings

☒ Allow Comments☒ Public Post



Module 1: Login/Signup UI

Error 1: npm ERR! Missing script: "dev"

Solution: `cd app/frontend && npm run dev`

Difficulty: Wrong directory - needed to be in frontend folder

Error 2: Frontend connection refused to backend

Solution: Updated API URLs from port 8000 to 5000 in frontend

Difficulty: Port mismatch between frontend config and backend

Module 2: Authentication Backend

Error 1: `ModuleNotFoundError`: No module named 'flask_cors'

Solution: `source venv/bin/activate && pip install flask-cors`

Difficulty: Virtual environment not activated, missing dependency

Error 2: Address already in use on port 5000

Solution: `pkill -f python` or use different port

Difficulty: Multiple backend instances running

Error 3: Database connection errors

Solution: Used local MySQL instead of hardcoded URI

Difficulty: Database configuration issues

Module 3: Profile View & Edit UI

Error 1: Frontend hot reload issues

Solution: `rm -rf node_modules/.vite && npm run dev`

Difficulty: Vite cache conflicts

Error 2: Profile image upload failures

Solution: Added cache-busting timestamps to image URLs

Difficulty: Browser caching preventing new images

Module 4: Profile Edit Backend

Error 1: JWT token validation failures

Solution: Proper token format in Authorization header

Difficulty: Authentication middleware issues

Error 2: File upload size limits

Solution: Increased max content length in Flask config

Difficulty: Large image uploads failing

Module 5: Post Creation

Error 1: CORS errors on file upload

Solution: Added proper CORS headers for multipart/form-data

Difficulty: Cross-origin file upload restrictions

Error 2: Media file storage issues

Solution: Created proper upload directories and permissions

Difficulty: File system access and storage paths

Module 6: Posts Listing

Error 1: Infinite scroll not working

Solution: Fixed pagination logic and scroll detection

Difficulty: React state management for pagination

Error 2: Image loading errors

Solution: Added error handling for broken image URLs

Difficulty: Network issues and missing media files

Common Commands Used:

Backend

cd app/backend && source venv/bin/activate && python main.py

Frontend

cd app/frontend && npm run dev

Kill processes

pkill -f python

Clear cache

rm -rf node_modules/.vite

Apply to Prok-Profess...

Run

Key Difficulties Overcome:

Environment Management: Virtual environment activation and dependency installation

Port Conflicts: Managing multiple services on different ports

CORS Issues: Cross-origin requests between frontend and backend

File Uploads: Proper handling of multipart data and file storage

Authentication: JWT token management and validation

State Management: React component state and API integration

Cache Issues: Browser and build tool caching problems

Database Integration: Connection and query optimization