

TechTalk

Project Report

<https://github.com/PalAsmita/TechTalk.git>

Blazer IDs

Asmita Pal – apal

Bhavya Bindu Arrpula – barrpula

Introduction:

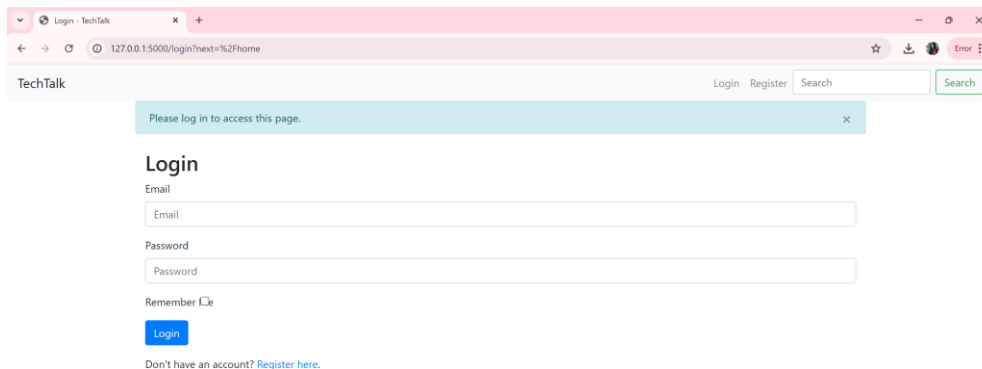
The project involves creating a Flask application for checking password formats and managing user sign-ups and logins using an SQLite database.

Technologies:

- Flask: Used to create a web application framework for the password checker and user management system.
- SQLite: Employed as the database for storing user data.
- Visual Studio Code (VSCode): The integrated development environment (IDE) used for code editing and database management.
- Anaconda
- HTML and Bootstrap

Results:

Login

A screenshot of a web browser displaying the login page of an application named 'TechTalk'. The browser's address bar shows the URL '127.0.0.1:5000/login?next=%2Fhome'. The page has a light blue header with the 'TechTalk' logo on the left and 'Login Register Search' links on the right. A light blue notification bar at the top states 'Please log in to access this page.' The main content area is titled 'Login' and contains two input fields for 'Email' and 'Password'. Below these fields is a 'Remember Me' checkbox and a blue 'Login' button. At the bottom, there is a link that says 'Don't have an account? Register here.'

Register

Register - TechTalk

127.0.0.1:5000/register

☆ ⬇️ 👤 Error

TechTalk

Login Register Search Search

Register

Username

Username

Email

Email

Password

Password

Confirm Password

Confirm Password

Register

Already have an account? [Login here.](#)

Home

Home - TechTalk

127.0.0.1:5000/home

🔍 ☆ ⬇️ 👤 Error

TechTalk

Profile New Post Follow Requests Groups Logout Search Search

Login successfull

Home

AI Trends

A recent LinkedIn US Executive Confidence Index Survey from June 2023 reflects an optimistic outlook: 47% of executives believe generative AI will boost productivity; 44% plan to augment their newest AI technology utilization in the coming year; and 40% view AI as a key to unlocking growth and revenue. Microsoft's 2023 Work Trend Index further bolsters this sentiment, revealing that a whopping 70% of individuals would gladly delegate tasks to AI to ease their workloads.

Posted by asmitapal on 2024-08-02


Like

Likes: 0

Comments:

Add a comment

Comment



Joined UAB

Started my masters degree in Data Science.

Posted by asmitapal on 2024-08-02

Like

Likes: 0

Comments:

Add a comment


Comment

Update profile

Profile - TechTalk

127.0.0.1:5000/profile/sheldon

☆📄👤Error



sheldon

AI Developer

Update Your Profile

Username

sheldon

Email

sheldon@uab.edu

Bio

AI Developer

Update Profile Picture

Choose File

No file chosen

Update

Likes & Comments

Home - TechTalk

127.0.0.1:5000/home

☆📄👤Error

TechTalk

ProfileNew PostFollow RequestsGroupsLogoutSearch

Search

Home

Researchers leveraging AI to train (robotic) dogs to respond to their masters

An international collaboration seeks to innovate the future of how a mechanical man's best friend interacts with its owner, using a combination of AI and edge computing called edge intelligence. The overarching project goal is to make the dog come 'alive' by adapting wearable-based sensing devices that can detect physiological and emotional stimuli inherent to one's personality and traits, such as introversions, or transient states, including pain and comfort levels.

Posted by sheldon on 2024-08-02


Like

Likes: 1

Comments:

Add a comment

Comment



Positions available at UAB

Our lab is offering RA positions. Interested people may reach out to me.

Posted by sheldon on 2024-08-02

Like

Likes: 1

Comments:

Jim: I am interested.

Add a comment

Comment

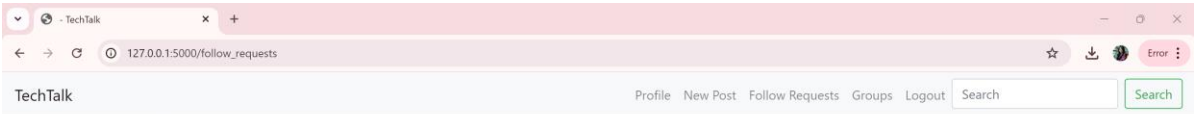
Search

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/search?query=b". The page title is "Search Results - TechTalk". The main content area displays "Search Results for 'b'" and a single result, "Bhavya", is listed in a box. The browser's address bar also shows "127.0.0.1:5000/search?query=b". The page header includes "TechTalk" and navigation links: "Profile", "New Post", "Follow Requests", "Groups", "Logout", and a search bar with the letter "b" and a "Search" button.

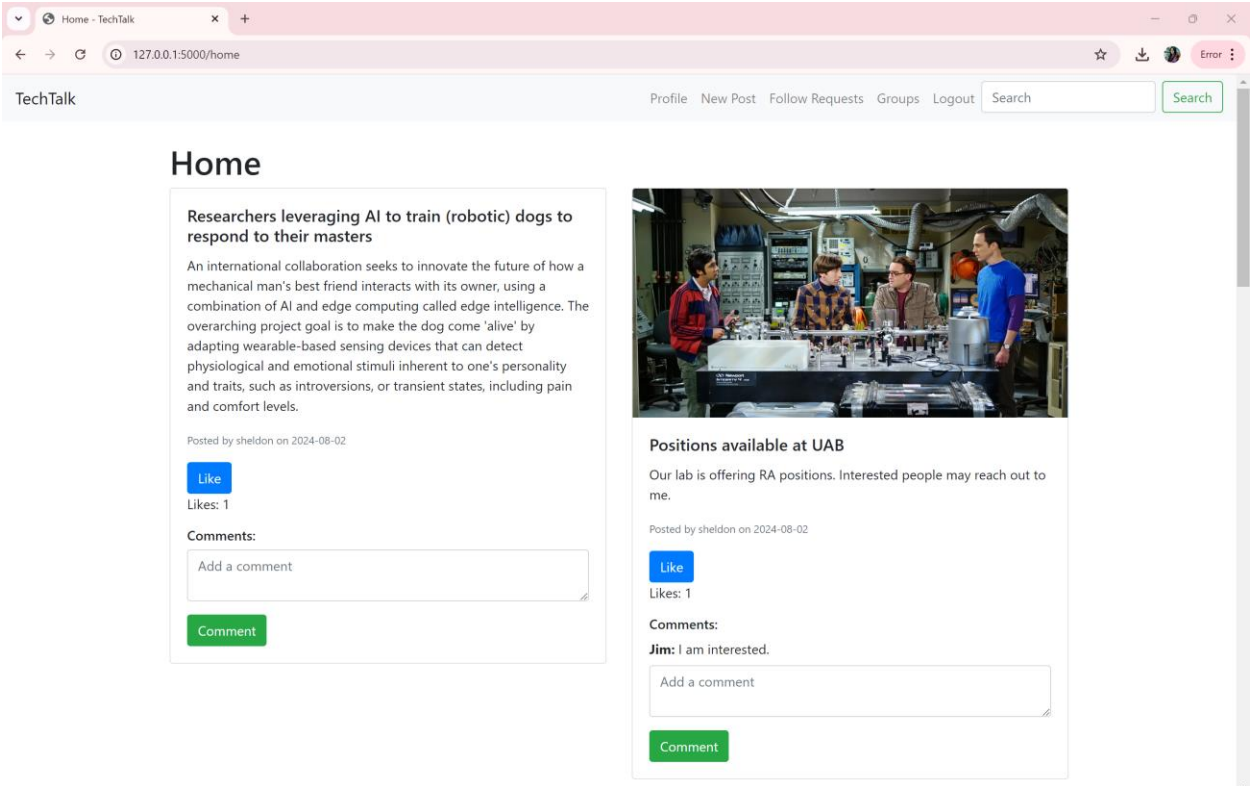
Does not follow

The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/profile/Bhavya". The page title is "Profile - TechTalk". The main content area displays the profile of "Bhavya", a "Machine Learning enthusiast". A blue "Follow" button is visible. A green notification bar at the top states "Follow request sent to Bhavya." The page header includes "TechTalk" and navigation links: "Profile", "New Post", "Follow Requests", "Groups", "Logout", and a search bar. The section "Posts by Bhavya" is shown with the message "Bhavya has not posted anything yet."

Follow request



After accepting request

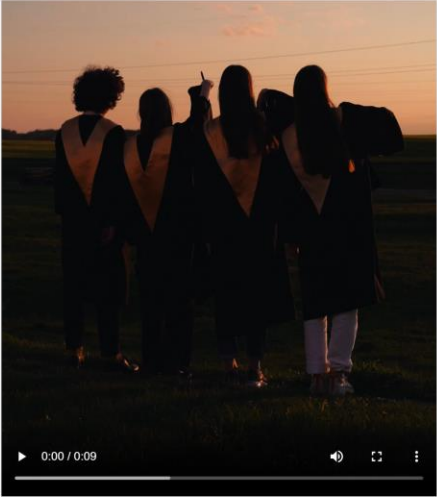


Images and video posts

Home - TechTalk

127.0.0.1:5000/home

🔍 ⭐ 📄 👤 Error



0:00 / 0:09

Graduated

Graduated from UAB with Masters in Computer Science


Posted by Bhavya on 2024-08-01

[Like](#)

Likes: 1

Comments:

Asmita: Congratulations!!!



UAB

Started pursuing my masters in CS from UAB

Posted by Siva on 2024-08-01

[Like](#)

Likes: 2

Comments:

Asmita: Wishing you all the best!

Jim: Beautiful campus

[Comment](#)

List of all groups

Groups - TechTalk

127.0.0.1:5000/group/list

☆ 📄 👤 Error

TechTalk

Profile New Post Follow Requests Groups Logout [Search](#)

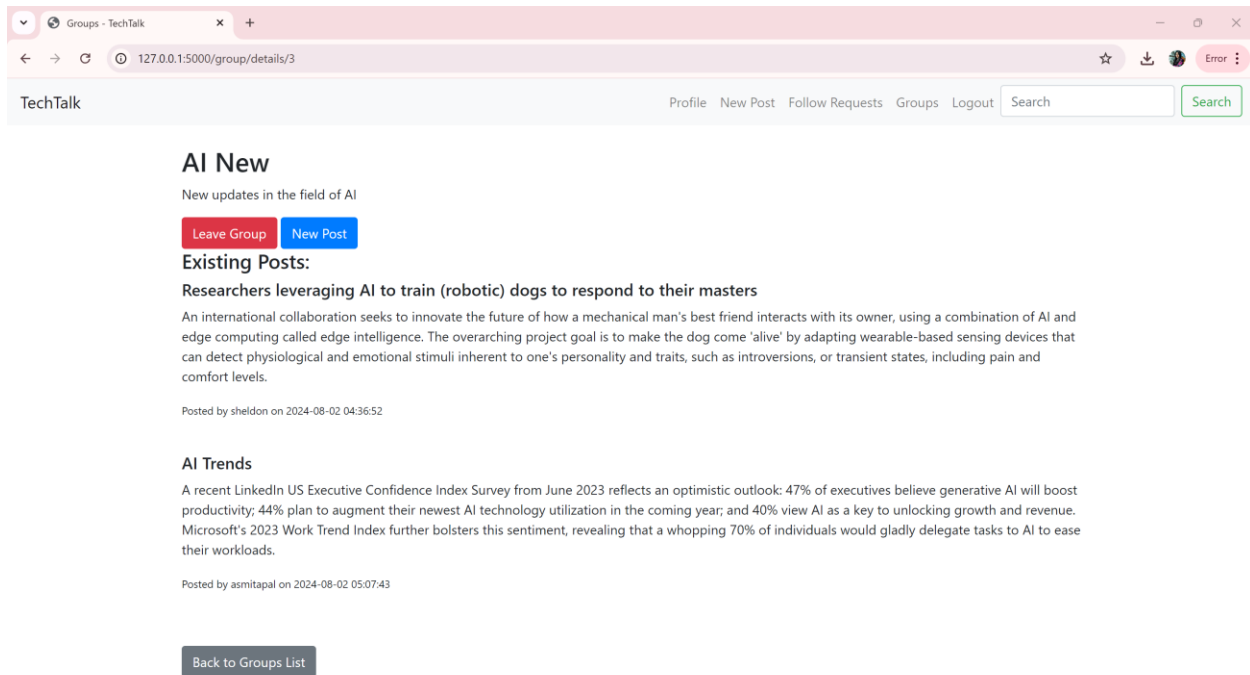
You must be a member of the group to view its details.

All Groups

[Create New Group](#)

UAB CS Students	Join
Birmingham IT	Join
AI New	Leave

Create new Group posts



Features

- Flask Application:
- Implemented a password checker that verifies passwords meet specific criteria (uppercase letter, lowercase letter, a number, and minimum 6 characters long).
- Developed a user sign-up and login system with password validation and email uniqueness checks.
- Configured SQLite with Flask for database management.
- Users can create profiles, enter bio information, and upload profile pictures
- Users can search and find other accounts using a search feature.
- Users can send follow requests to other users and can accept or decline follow requests.
- Users can share posts that can include text, images, and videos. Posts should be visible to the followers of the user who posted them.
- Followers can like posts. Followers can comment on posts. The number of likes and comments should be visible on each post.
- Users can create groups related to specific topics or interests. Users can join existing groups. Users can share posts within the groups they are part of. Posts shared in groups should be visible to all group members.

Discussions:

The project faced some challenges, when the database got deleted accidentally but the data was still stored. So, it was unable to run as the migration folder did not have the correct files and the .env file was corrupted. Finally, we had to create a new_database. Also, migrating any changes to the database. We also faced an issue with the follow button. If someone requested to follow, once the requested was accepted, one person was following the other person, but the second person was unable to see any posts from them, and it didn't say they followed them. Other important aspects were ensuring the correct extension installation, handling file permissions, and dealing with potential file locking or corruption. These issues were addressed by verifying the installation of the SQLite extension, checking file paths and permissions, and ensuring the database was not in use by other applications.

References:

- Flask Documentation: <https://flask.palletsprojects.com/>
- SQLite Documentation: <https://sqlite.org/docs.html>
- React Documentation: <https://reactjs.org/docs/getting-started.html>
- DB Browser for SQLite: <https://sqlitebrowser.org/>
- <https://www.youtube.com/watch?v=dam0GPOAvVI>
- <https://www.youtube.com/watch?v=YRCOc-pZwR8>
- <https://gitlab.com/alexfullam/social-media-clone-1>
- <https://teamtreehouse.com/community/build-a-social-network-with-flask-9>
- https://www.w3schools.com/howto/howto_css_login_form.asp
- <https://www.youtube.com/watch?v=VeOhsHkMaKQ&list=PLY3j36HMSHNWaKUC73RJlwi6oU-WTpTPM>
- https://www.youtube.com/watch?v=-FWuNnCe73g&list=PLHc4Ur2ceUeSPX_vhQZON6zTVE-0qrKrE&index=3