Web Application for Idea Submission and Voting

This presentation outlines the development of a web application designed to foster collaborative idea generation and transparent voting. Built with Flask and MongoDB, this platform aims to streamline the process of submitting, evaluating, and prioritizing innovative concepts.

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Introduction: Addressing the Need for Collaborative Idea Platforms

The Modern Challenge

Organizations often struggle to capture and leverage the collective intelligence of their members.

Traditional methods can be inefficient, biased, and lack transparency.

Our Solution: An Idea Submission and Voting Platform

This web application provides a centralized space for users to submit, discuss, and vote on ideas.

It promotes inclusivity and helps identify the most promising concepts based on community feedback.

Objectives: Project Goals and User Benefits

Enhanced Collaboration

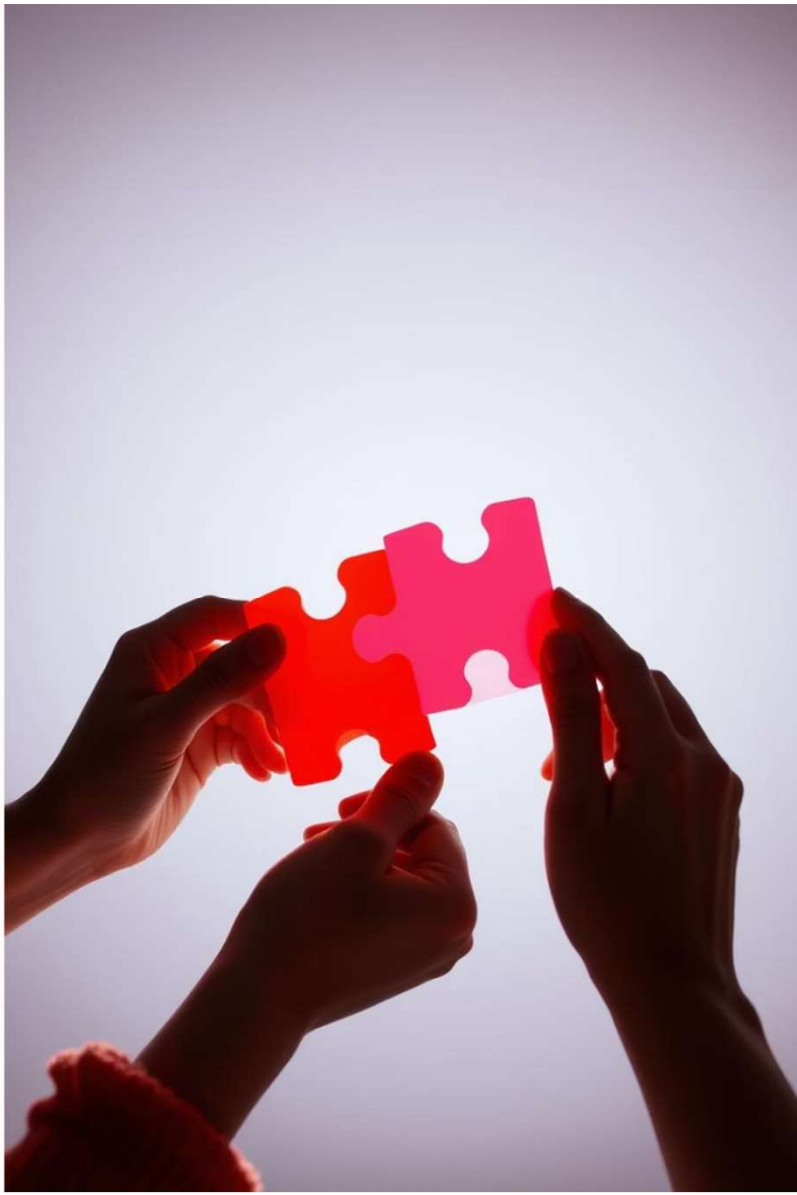
Facilitate seamless idea sharing and discussion among users.

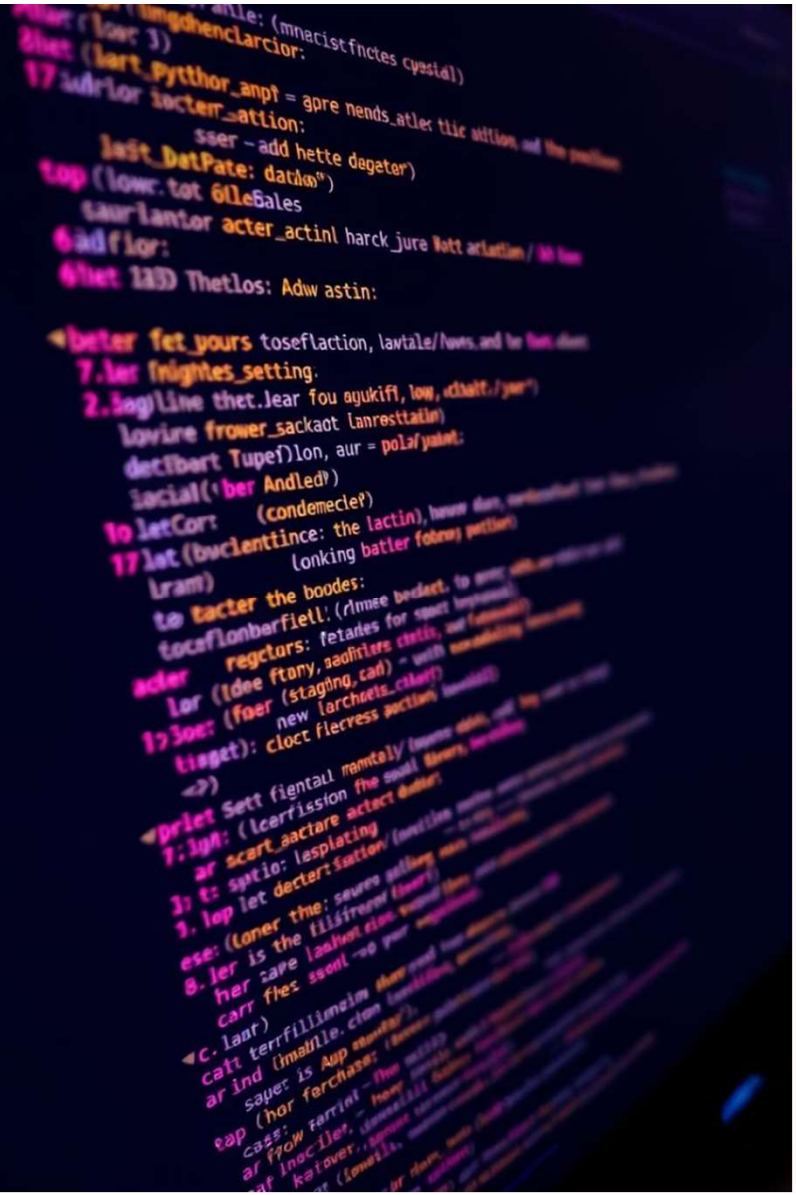
Transparent Voting

Implement a fair and unbiased voting system for idea evaluation.

Identify Top Ideas

Help organizations pinpoint the most promising concepts for further development.





Tech Stack: Flask, MongoDB, Angular

1

Flask (Backend)

A lightweight Python web framework for building robust APIs and handling application logic.

2

MongoDB (Database)

A NoSQL database providing flexible data storage and scalability for handling a large volume of ideas and votes.

3

HTML/CSS/JS (Frontend)

Standard web technologies for creating an intuitive and responsive user interface.

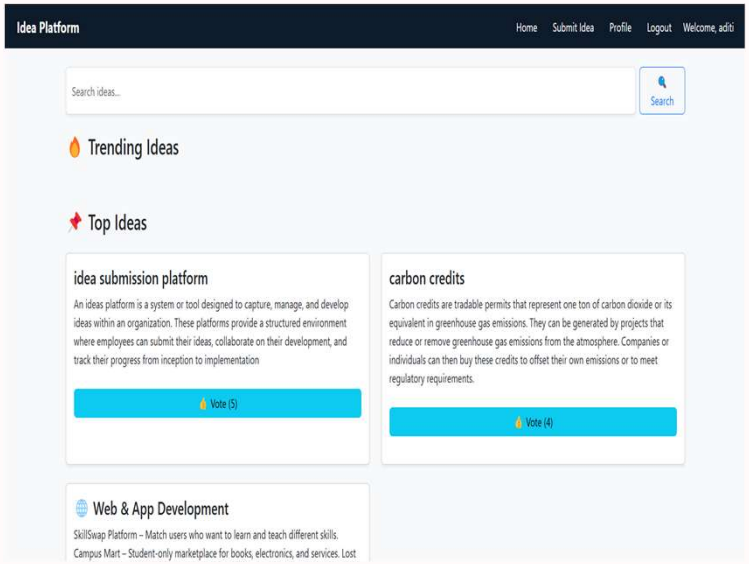
System Requirements: Hardware & Software

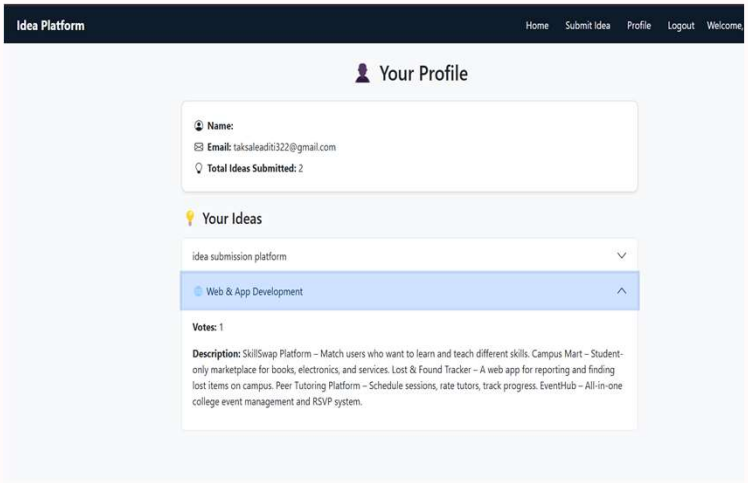
Development Environment

- Operating System: Windows, macOS, or Linux
- Python 3.6+
- MongoDB Server
- Text Editor or IDE (e.g., VS Code, PyCharm)

Deployment Environment

- Web Server (e.g., Apache, Nginx)
- Operating System: Linux (recommended)
- MongoDB Server
- Sufficient RAM and CPU resources





Implemented Features

Idea Submission

Users can submit ideas with categories and detailed descriptions.

Voting System

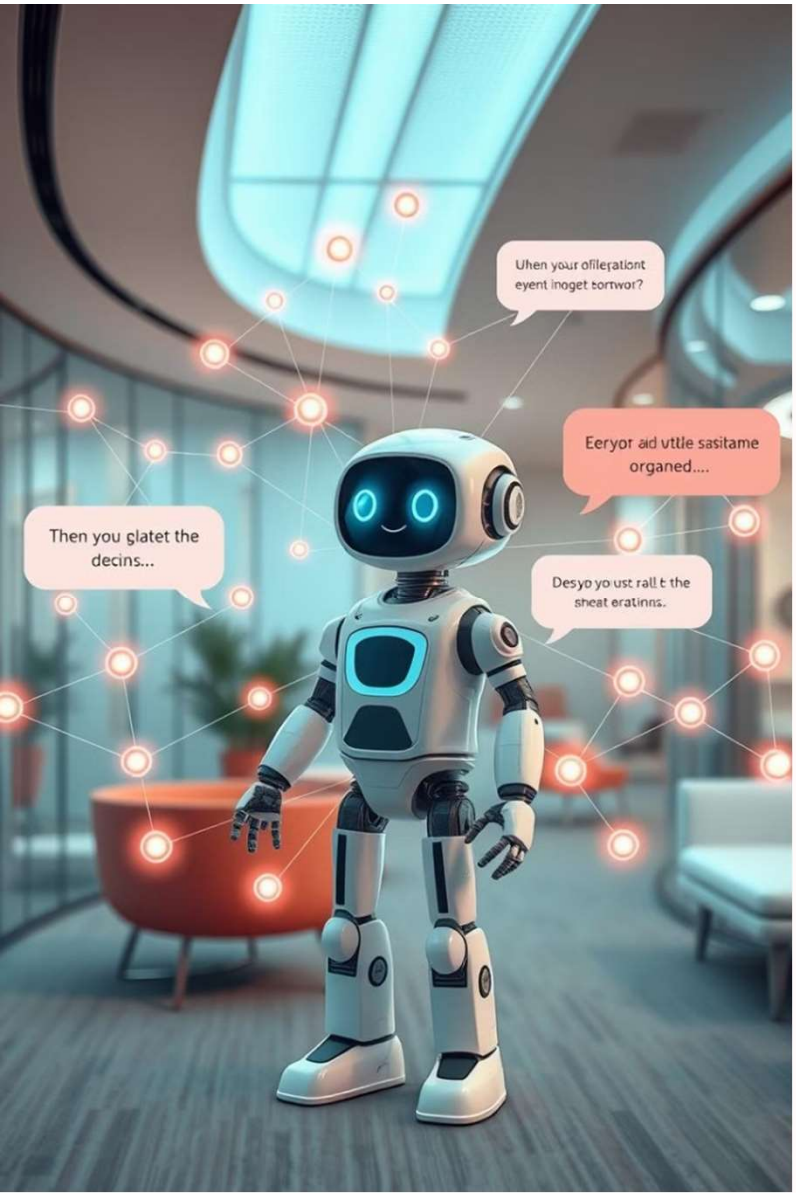
Upvotes and downvotes allow users to express their support or concerns.

User Authentication

Secure user accounts with authentication and authorization mechanisms.

Real-time Updates

Instant updates on new ideas and voting results.



Future Scope: Expanding the Platform's Capabilities

AI-Powered Idea Recommendation

Suggest relevant ideas based on user preferences and past interactions.

Sentiment Analysis

Analyze the sentiment of user comments to gauge the overall perception of ideas.

Team Formation Features

Connect users with complementary skills and interests to collaborate on promising ideas.

Gamification

Introduce game mechanics to encourage participation and reward valuable contributions.

Conclusions: Achievements and Key Learnings

Project Achievements

- Successfully developed a functional web application for idea submission and voting.
- Implemented key features such as user authentication, real-time updates, and a transparent voting system.

Key Learnings

- Gained valuable experience in using Flask and MongoDB for web development.
- Learned about the challenges and best practices of building collaborative platforms.

References: Resources and Libraries Used

- Flask

  https://youtu.be/0HXg9_r_7MM?si=JF6i7Wf2ejFXkm1z

- MongoDB

  https://youtu.be/J6mDkcqU_ZE?si=rT76FRtt7N1Cv0yw

- Angular/TypeScript

  https://youtu.be/0LhBvp8qpro?si=Mdoq9gtdwR2Tb4ZR

- Bootstrap

  https://youtu.be/YnfETnQWvPQ

Thank You & Q&A

Thank you for your attention. We are now happy to answer any questions you may have about the project.