

# 404NotFound

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[Live Site](#) [Source Repository](#)

## Project Overview

404NotFound is a collaborative Q&A platform for developers, built upon the foundation of FakeStackOverflow and designed to address limitations in other developer knowledge-sharing platforms. While FakeStackOverflow serves as a valuable resource for developers seeking technical knowledge, it suffers from engagement gaps, limited content formats, insufficient governance structures, and a lack of personalized learning pathways.

## Features

404NotFound integrates five new features to extend the learning experience of FakeStackOverflow.

## Tech Stack and Design Decisions

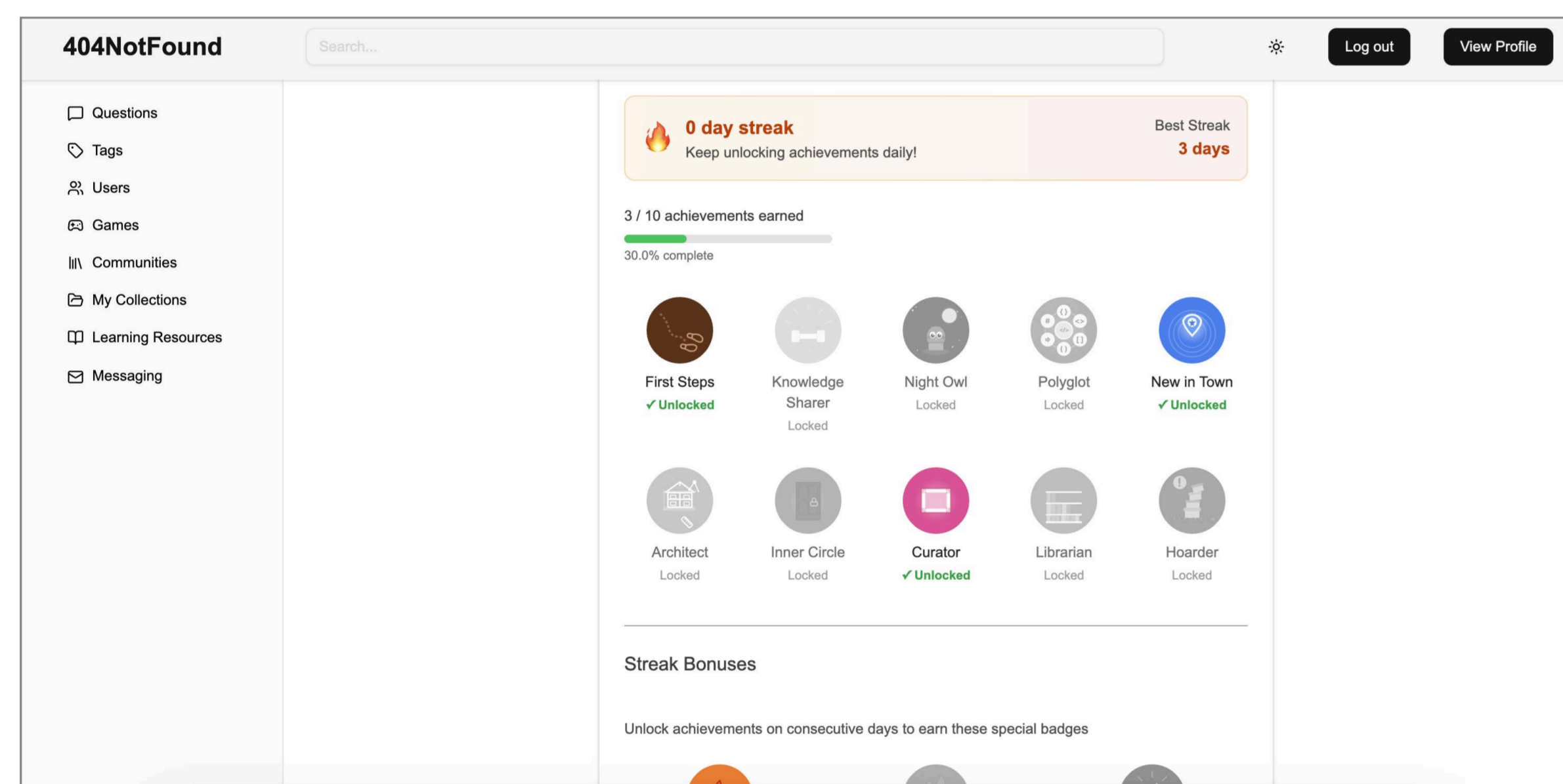
We extended the codebase by adding new Mongoose schemas, models, services, and controllers to support our features, and integrated Gemini for recommended resources, Multer for media validation, and Cloudinary for media storage. On the frontend, we used TypeScript React, TailwindCSS, and shadCN UI to build our interface, created custom hooks for state management and backend communication, and relied on reusable components and Socket.io for real-time updates. Our CI/CD pipeline uses GitHub Actions for linting and testing, Render for deploying both frontend and backend, and MongoDB for our production database.

## Future Enhancements

Future enhancements for the platform could include creating dark-mode-specific achievement icons and badges to improve visual consistency, as well as extending Moderator Analytics to track richer trends in flagged content, user behavior, and guideline violations. A more robust notification system could alert users when their content is removed or when an appeal is approved, improving transparency and trust. To further strengthen governance, moderators could receive disciplinary warnings if more than five removed posts are reinstated after appeal within a 30-day window, and any appeals that remain unresolved beyond a set timeframe could be automatically escalated to a community admin to ensure timely resolution.

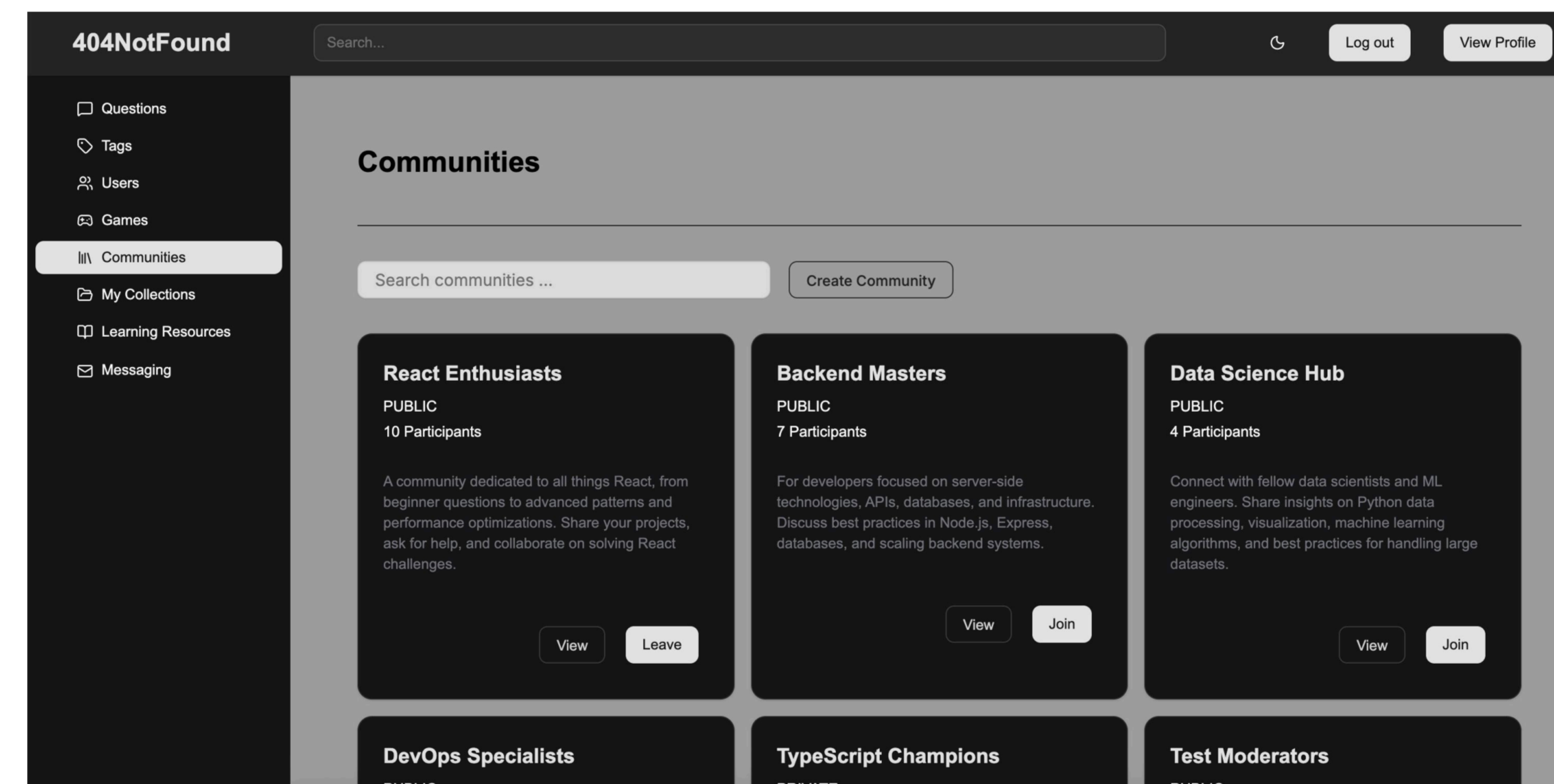
### Gamified Achievements System

Allows users to earn badges by completing specific actions on the platform.



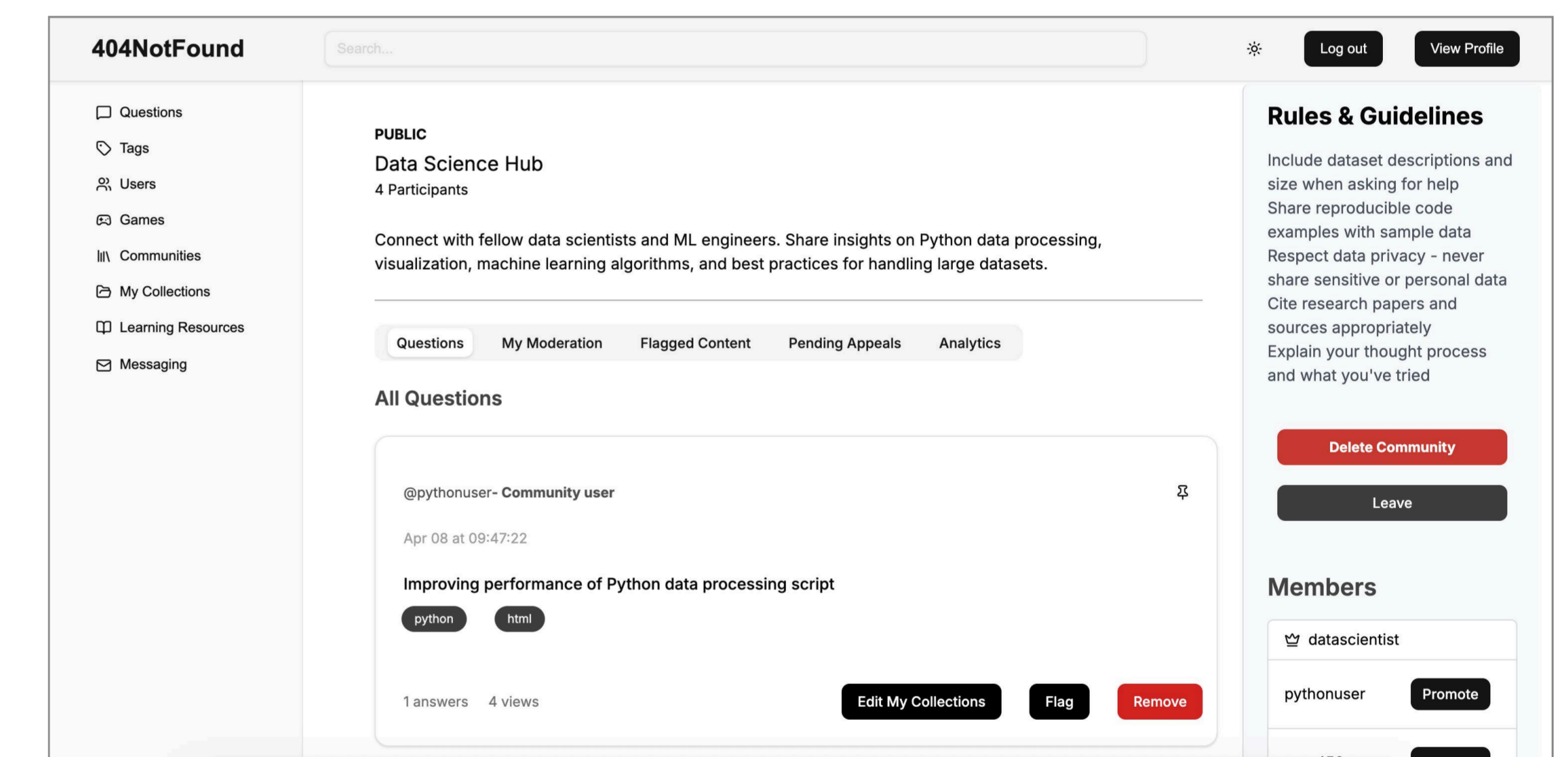
### Shadcn UI Migration

Shadcn/ui creates a cohesive visual language across the application with accessible dark and light modes.



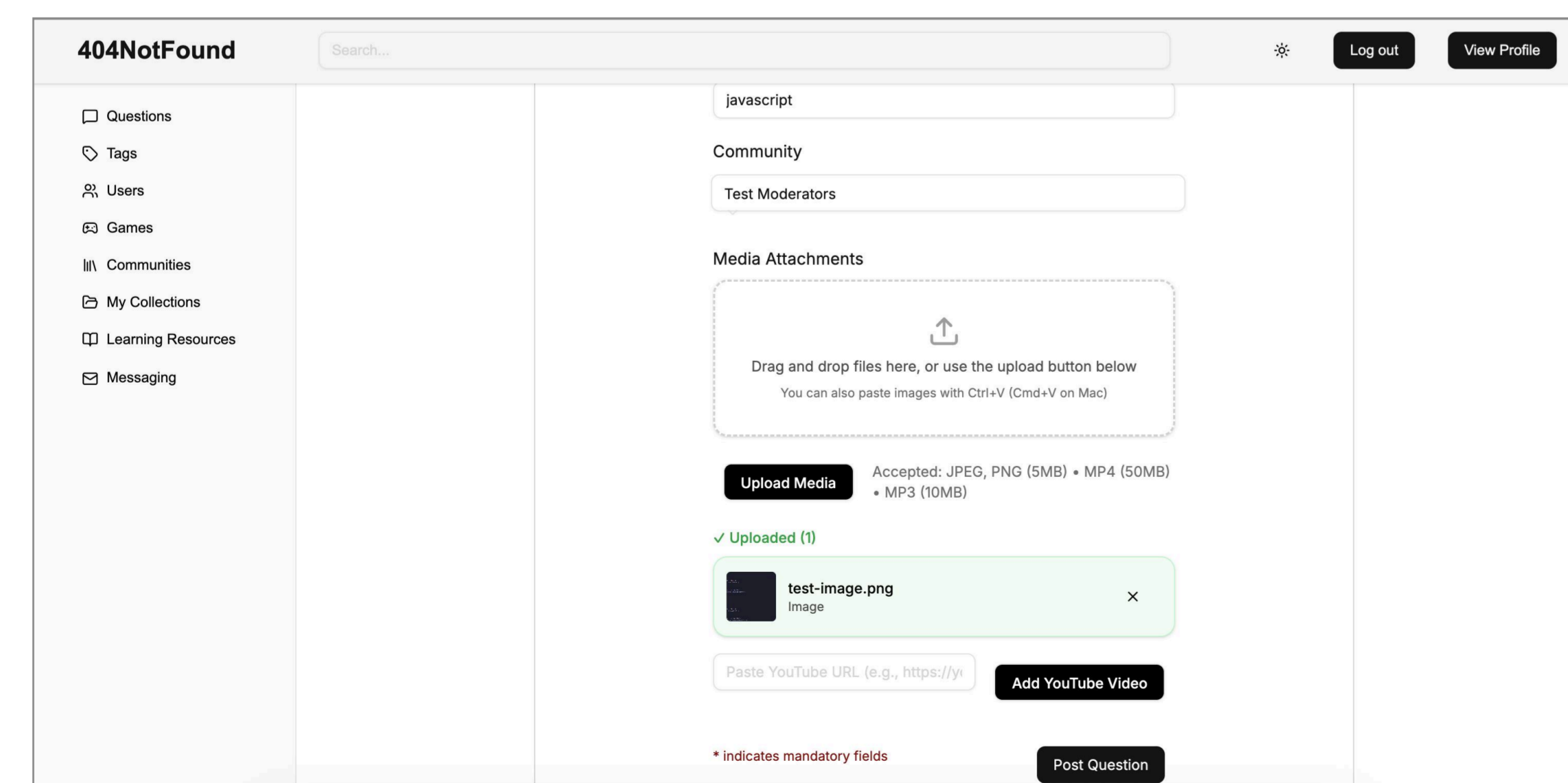
### Community Moderators

Community moderators can remove and review appealed content from their communities to maintain content quality and safety.



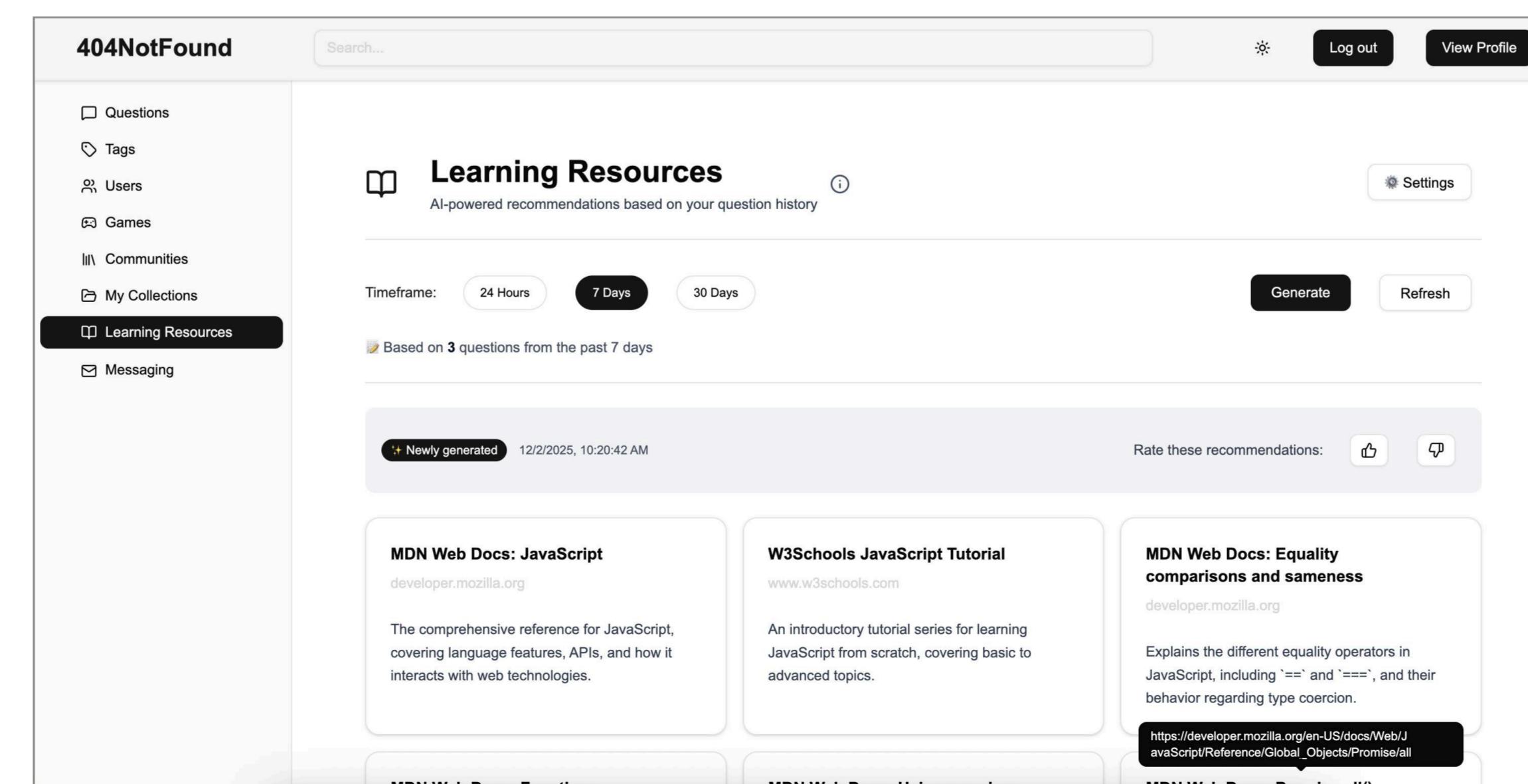
### Media Upload

Users can attach select file types and sizes of images/audio/video to questions and answers.



### AI Learning Resources

Personalized learning resources are generated based on select timeframes of question history with a user's consent.



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