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NAAC



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CAPSTONE PROJECT

Knowledge Management System

➡ 1. Objective

The main objective of the Knowledge Management System (KMS) project is to create an AI-powered platform that helps employees access, manage, and understand project-related knowledge efficiently. It enables new employees to quickly learn about ongoing and past projects by reading and interacting with uploaded documents. Additionally, it integrates real-time AI/ML/.NET news and freelance project opportunities, making it a comprehensive knowledge and opportunity hub with the data of competitor from the scrapping and automatic blog posting using the llama model.

➡ 2. Implementation

The KMS project has been implemented using modular components with Streamlit as the front-end framework. The key implementations include:

a) Core Features

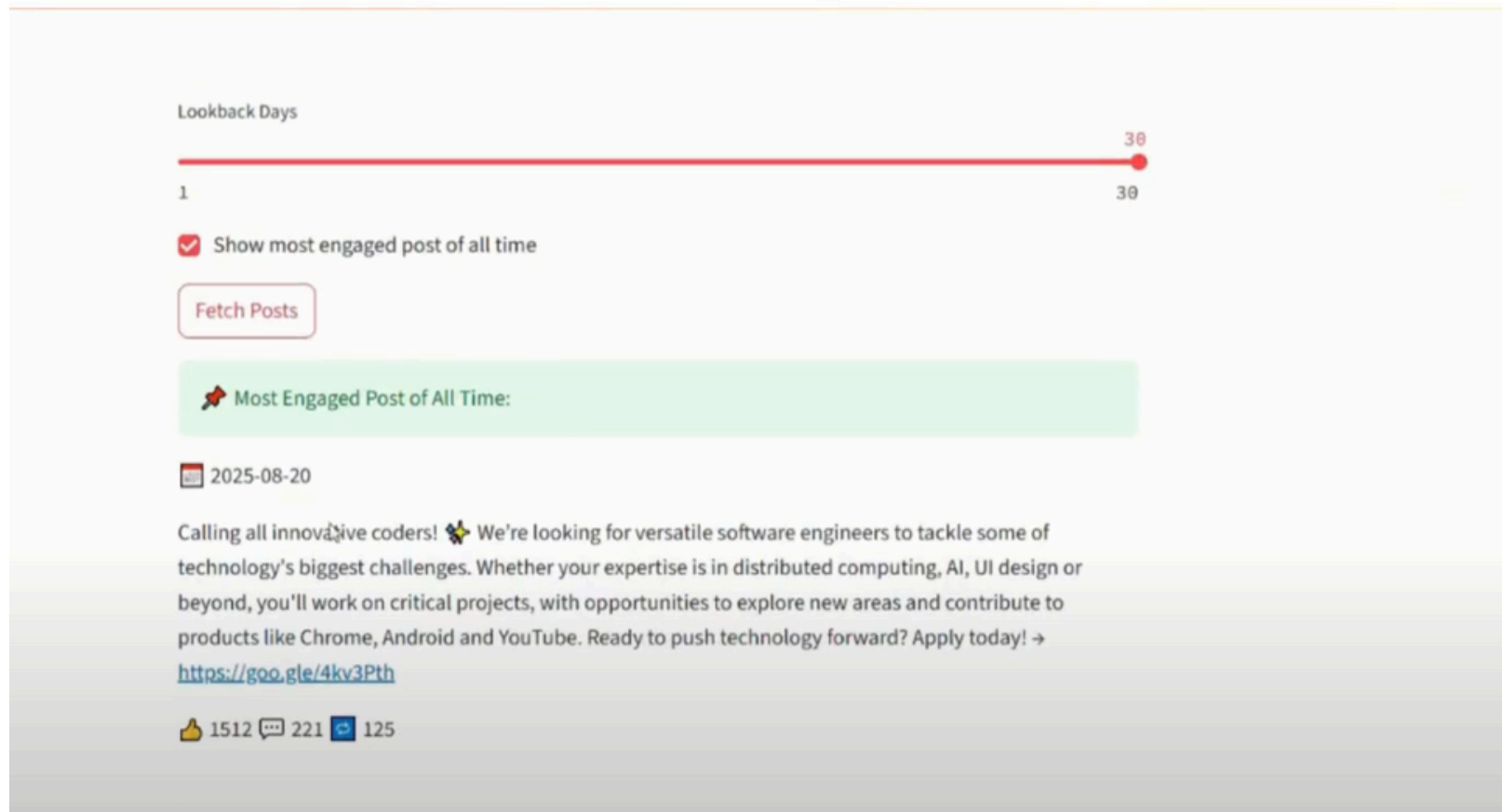
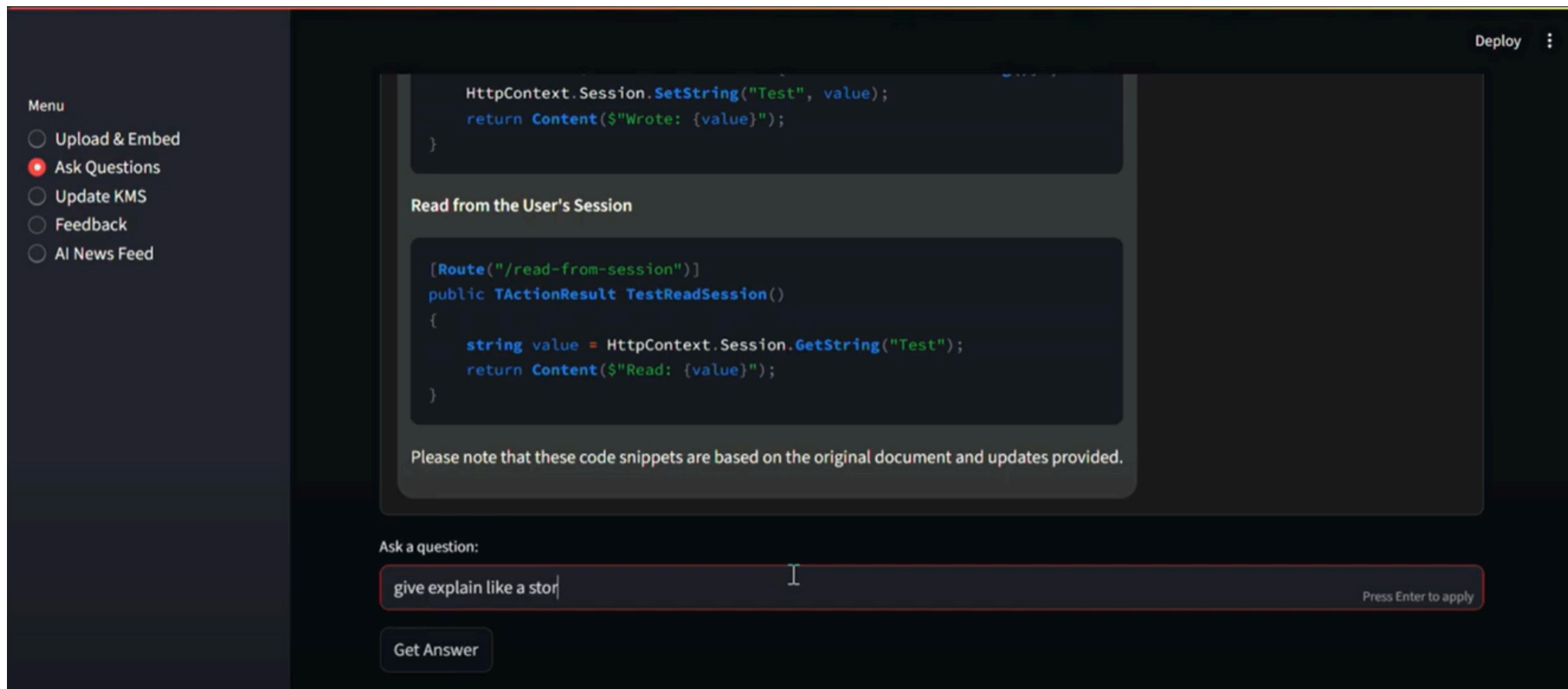
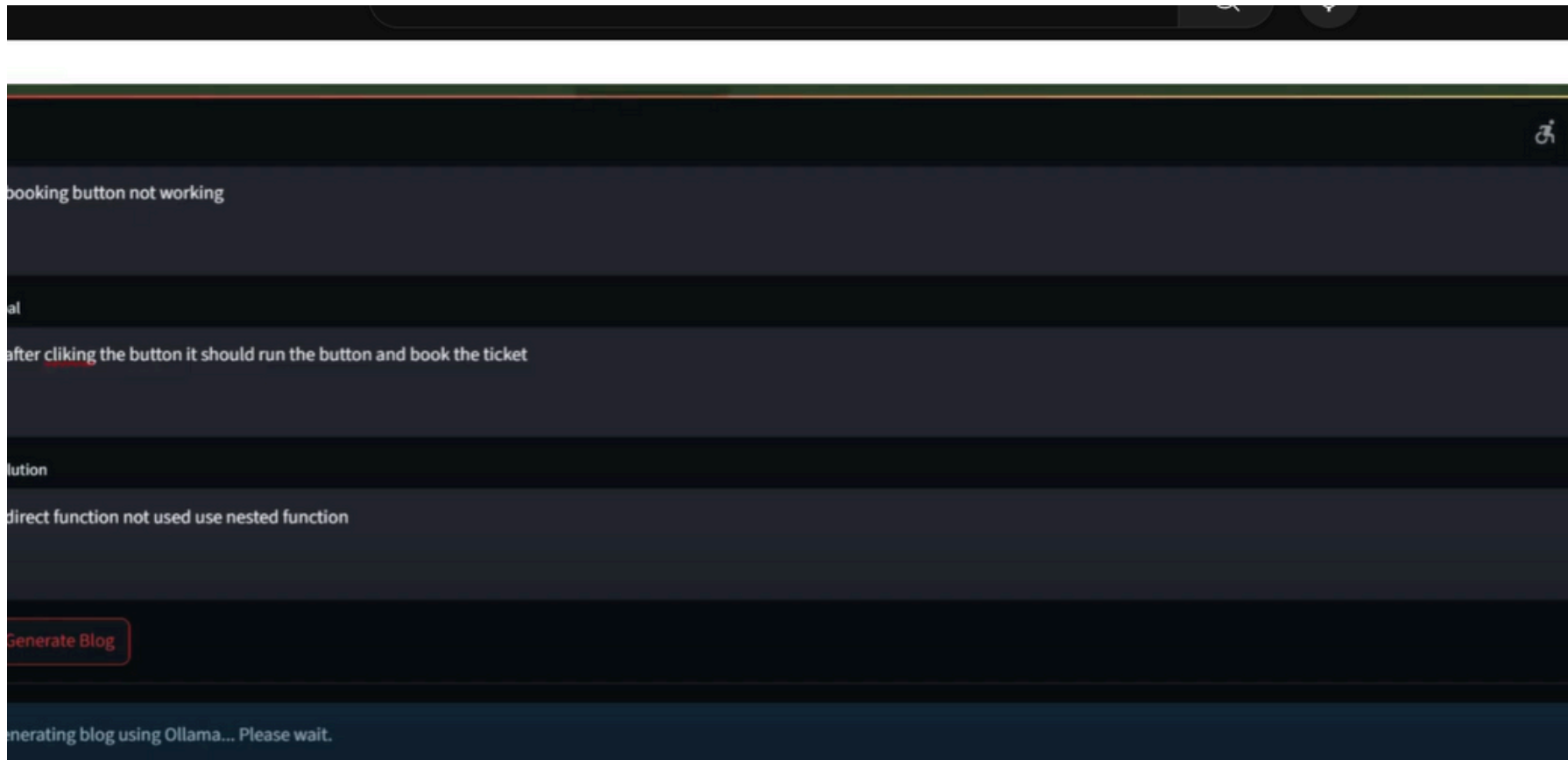
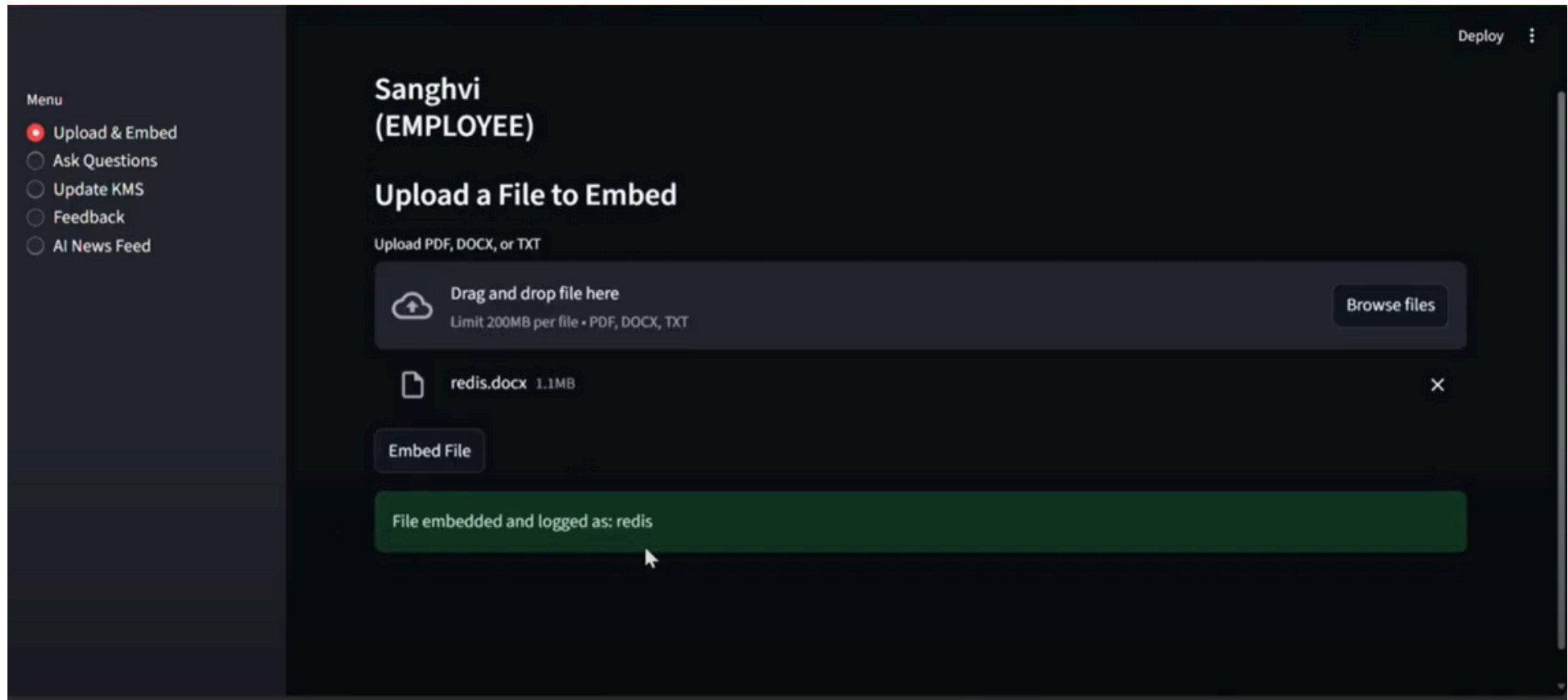
- **Upload & Embed:** Employees can upload daily project files (PDF, DOCX, TXT). The system extracts and embeds the content for future retrieval.
- **Ask Questions:** Users can ask questions about the uploaded content and get instant AI-powered responses.
- **Update KMS:** Provides functionality to update existing knowledge with new inputs.
- **AI News Feed:** Displays AI/ML/.NET news articles in a scrolling footer across all pages. The news feed is updated every 6 hours and shows the top 9 most relevant articles.
- Take the competitor post and trending post through the LinkedIn scraping using BeautifulSoup and Selenium and getting most engaged post also
- After giving some keyword the llama3 model will generate the blog that blog will be posted from our company automatically.

Implementation...

b) Technical Implementation

- Built with Python and Streamlit for an interactive web interface.
- Uses Selenium for automation in tasks like LinkedIn competitor for company status and taking engaged with.
- Using the ollama llama 3 model kms will give the answer with the code and question which ask by the employees.

Images



3. Outcomes

The KMS project successfully provides a centralised, AI-powered platform that not only manages project knowledge but also keeps the team updated with industry news and freelance opportunities.

- Faster onboarding for new employees.
- Efficient knowledge retrieval and management.
- Real-time awareness of AI/ML/.NET industry updates.
- Blog will generated by posting the continous blog our company branding and sales branding will also increased.
- Thorough most engaged post we will track that company and we make the decision

4. Stakeholder Needs & Project's Impact on the ICT Domain

Stakeholder Needs:

- **Employees:** Need easy access to past and ongoing project knowledge without depending on individual colleagues.
- **Managers:** Require transparency and continuity in project information, especially when employees leave.
- **New Joiners:** Need a fast way to understand projects and get up to speed without spending weeks gathering details.
- **Organization:** Seeks to reduce knowledge loss, improve collaboration, and ensure efficient onboarding.

4. Stakeholder Needs & Project's Impact on the ICT Domain...

Project's Impact on the ICT Domain:

- **Improving Efficiency:**

- Automates knowledge capture and retrieval.
- Saves time for employees by answering queries instantly.
- Enhances decision-making by providing accurate and structured project data.

- **Enhancing Security:**

- Centralized system with controlled access ensures only authorized users can upload or query documents.
- Reduces the risk of losing critical knowledge when employees leave.

➡ 5. Conclusion

The Knowledge Management System project achieves its goal of merging knowledge sharing, real-time industry awareness, and business opportunity discovery in a single AI-driven solution. With modular design, strong integration of APIs, and automation features, it stands as a practical and scalable system for modern organisations.

Role:

Tvisha: kms project + blog content creation

Harsh: kms backend + scrapping compititor post

Git Link: https://github.com/HARSHSANGHAVI11/KMS_Project

Viedo Link: https://drive.google.com/file/d/1ttHEpcm9Oo175B-qKRzMzk_7jVM4QMzj/view?usp=sharing