

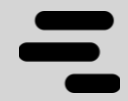


National Library and Archives United Arab Emirates

Emerging Technologies and Innovations



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Services Department



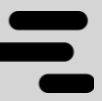
Overview of the National Library and Archives



The National Library and Archives (NLA) was established in 1968 under the name “Documents and Studies Bureau,” by the directives of the late Sheikh Zayed bin Sultan Al Nahyan, may Allah rest his soul in peace.

Over the past fifty years, the UAE National Library and Archives has secured a distinguished standing among its counterparts in the Middle East and across the globe, owing to its strong reliance on modern technological foundations. It is considered one of the oldest cultural institutions in the United Arab Emirates and the largest documentation center in the Arabian Gulf region.

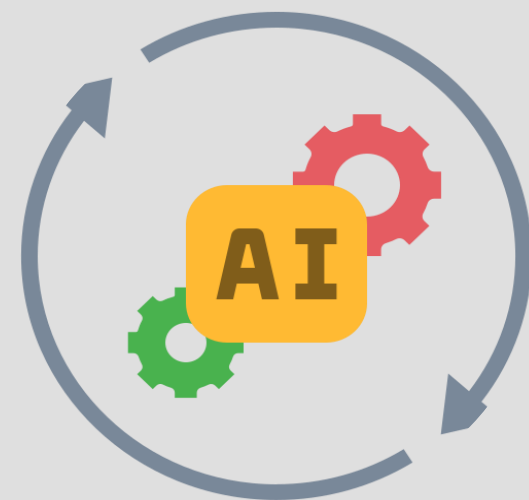




Benefits of smart systems:



Maintaining Information Confidentiality



Automating Tasks with AI



Enhancing Performance and Scientific Research Efficiency



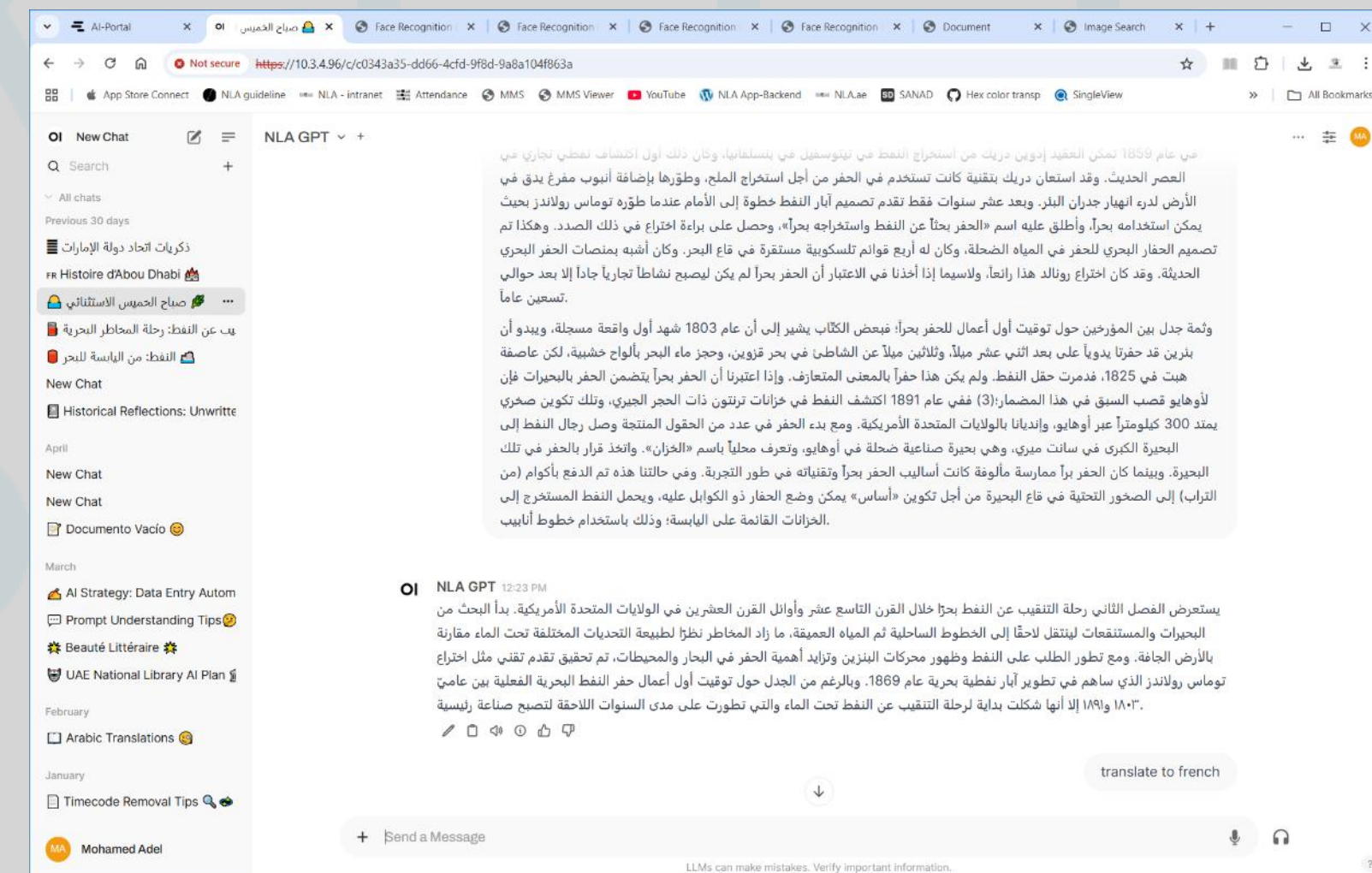
Reducing Operational Costs



Increasing Productivity

nlaGPT

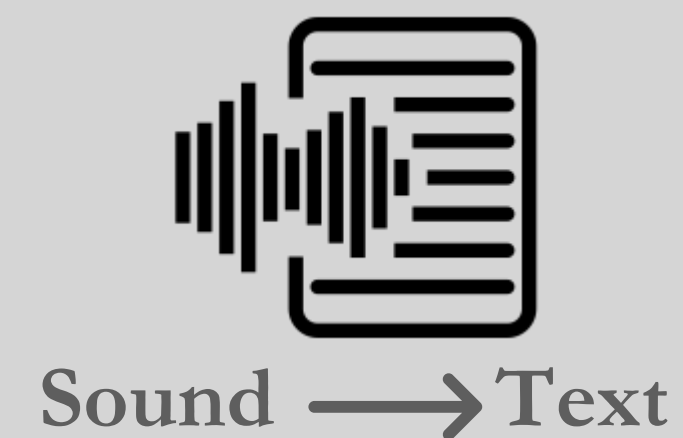
The NLAGPT system was developed internally and runs entirely within a secure, in-house environment, with no dependence on external cloud services, ensuring that sensitive information remains protected. It enhances employee productivity by providing an intelligent assistant that can support daily tasks, draft correspondence, summarize documents, and respond to inquiries quickly and securely, reducing time spent on repetitive work and enabling staff to focus on strategic activities.



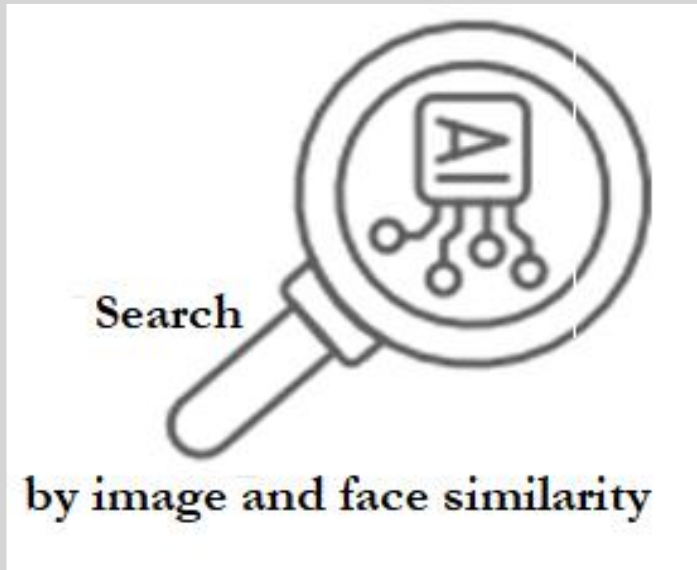
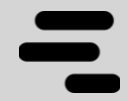


Translation and Transcribing

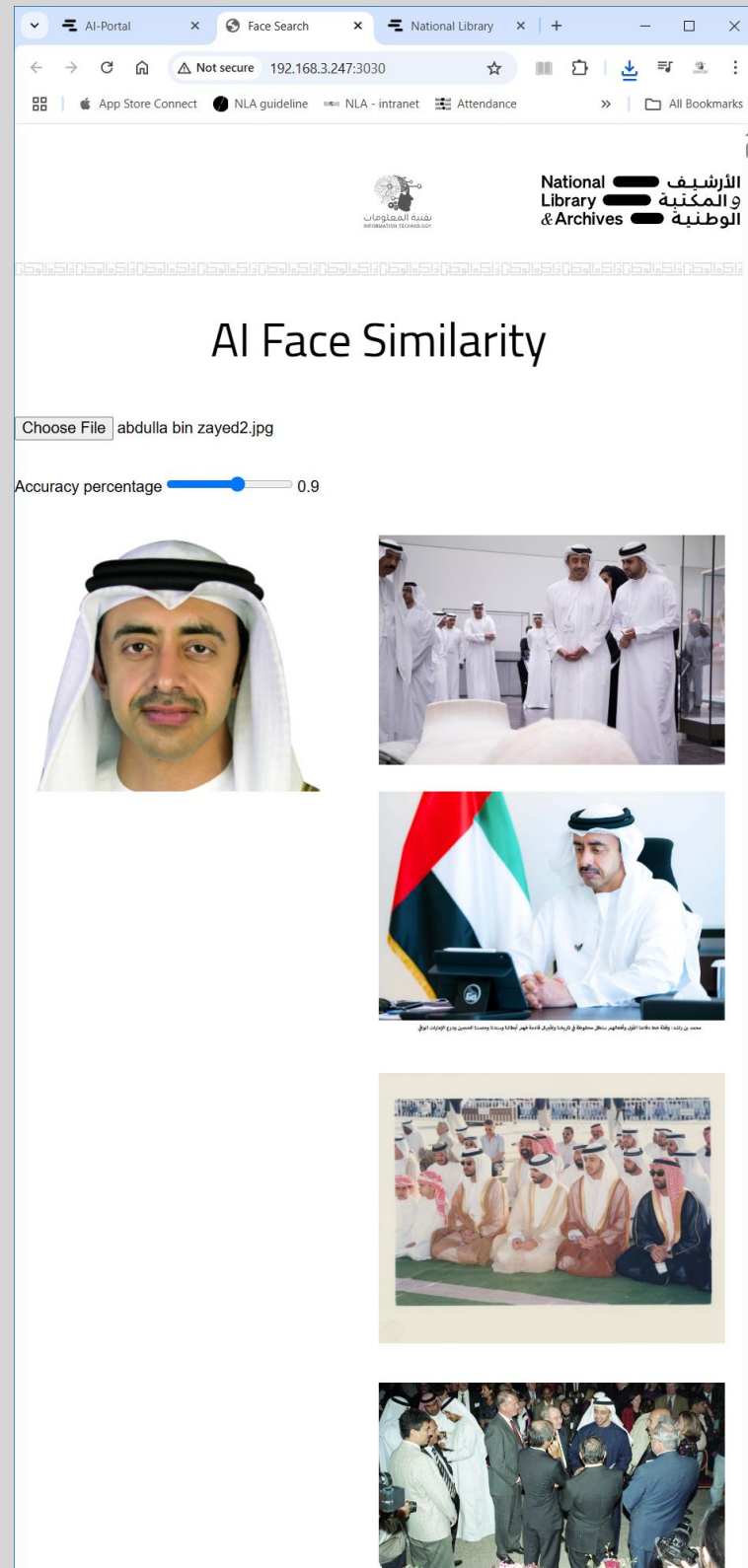
The internal transcription and translation system is a powerful tool that supports the work of researchers and historians. It allows users to convert audio and video files into editable, searchable text using advanced speech recognition technologies in both Arabic and foreign languages. The system provides valuable support to the Oral History Section and also includes a module for translating written texts into multiple languages.



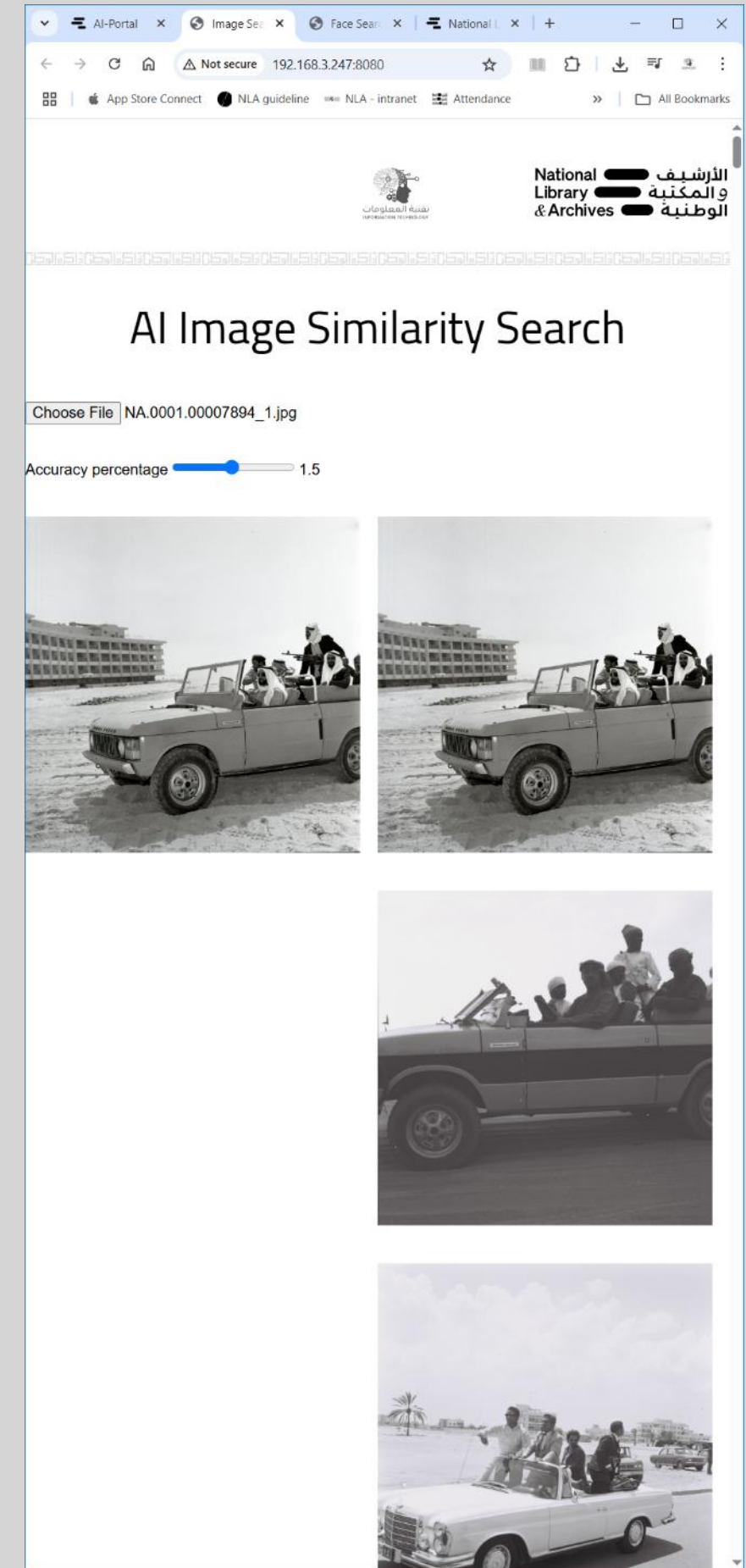
The screenshot shows a web browser window with the URL nl.ae. The page header includes the National Library and Archives logo and navigation links. Below the header, there is a section titled 'مرحباً بك' (Welcome) with three buttons: 'اختر ملفاً صوتياً أو فيديو' (Select audio or video file), 'بدء التسجيل' (Start recording), and 'ترجمة النص' (Translate text). The main content area features a video player showing a man in a white thobe speaking. Below the video player, there is a text input field with the English text: 'My first message to them is that they must know UAE has full transparency and it's a state one can trust.' To the right of the input field, there is a yellow highlighted area containing Arabic text: 'رسائلهم أن يجب أن يعرفون أن دولة الإمارات عندما شفافية كاملة ودولة يتحدون بتكون عليها ويعتمدون عليها'.

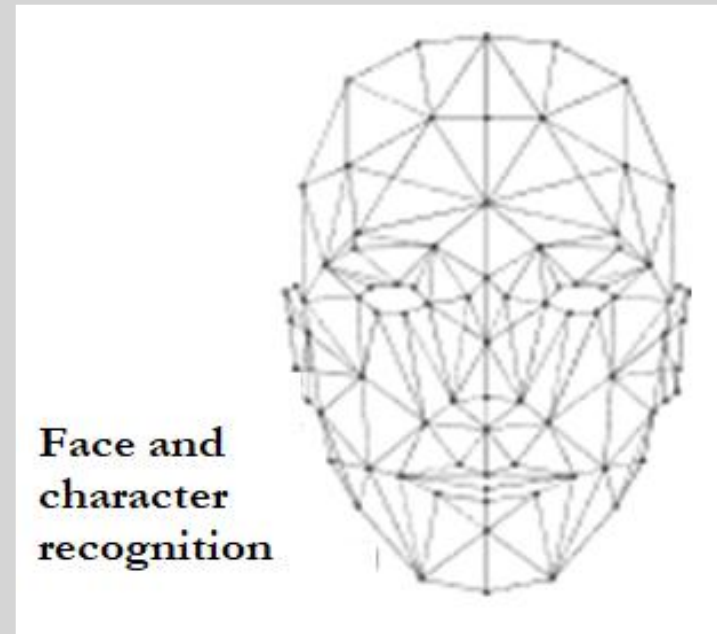
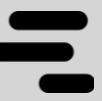


An advanced face-search system enables archive staff to quickly search internal databases for specific individuals using a personal photo, identifying matches within seconds and facilitating the automated categorization of archival materials. This technical solution marks a significant advancement in archival tools, enhancing both the quality and accuracy of national visual content management.

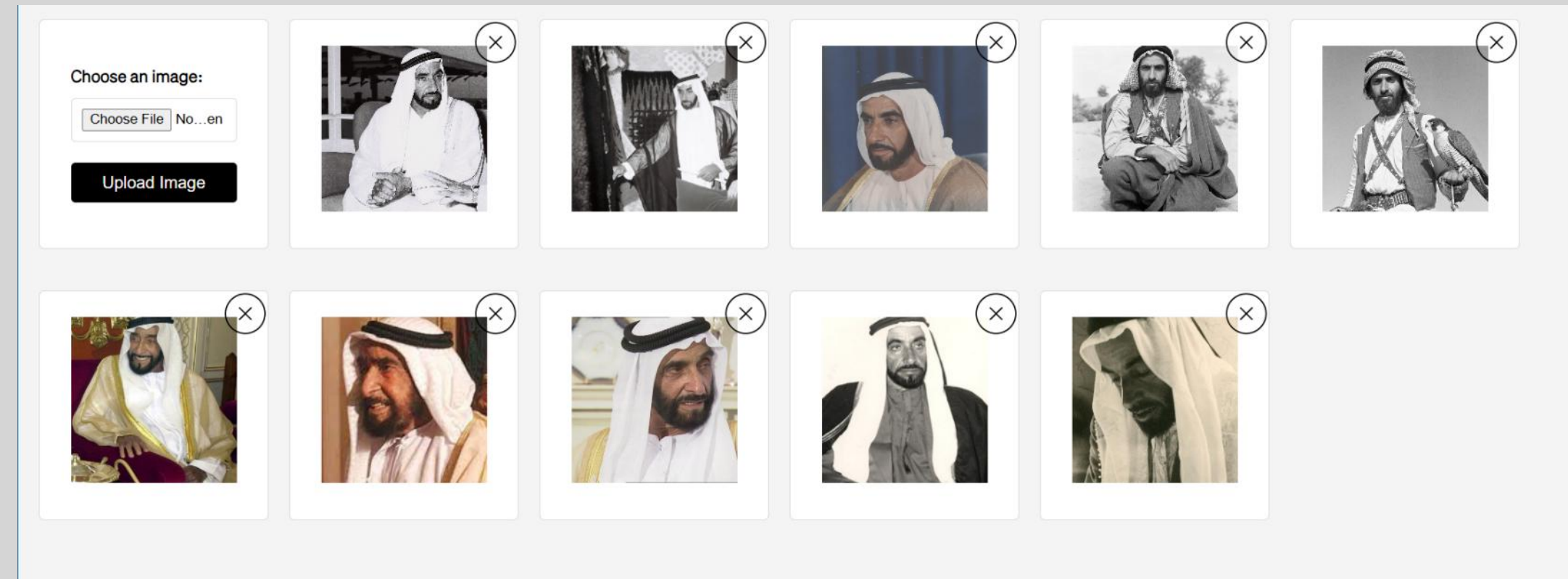
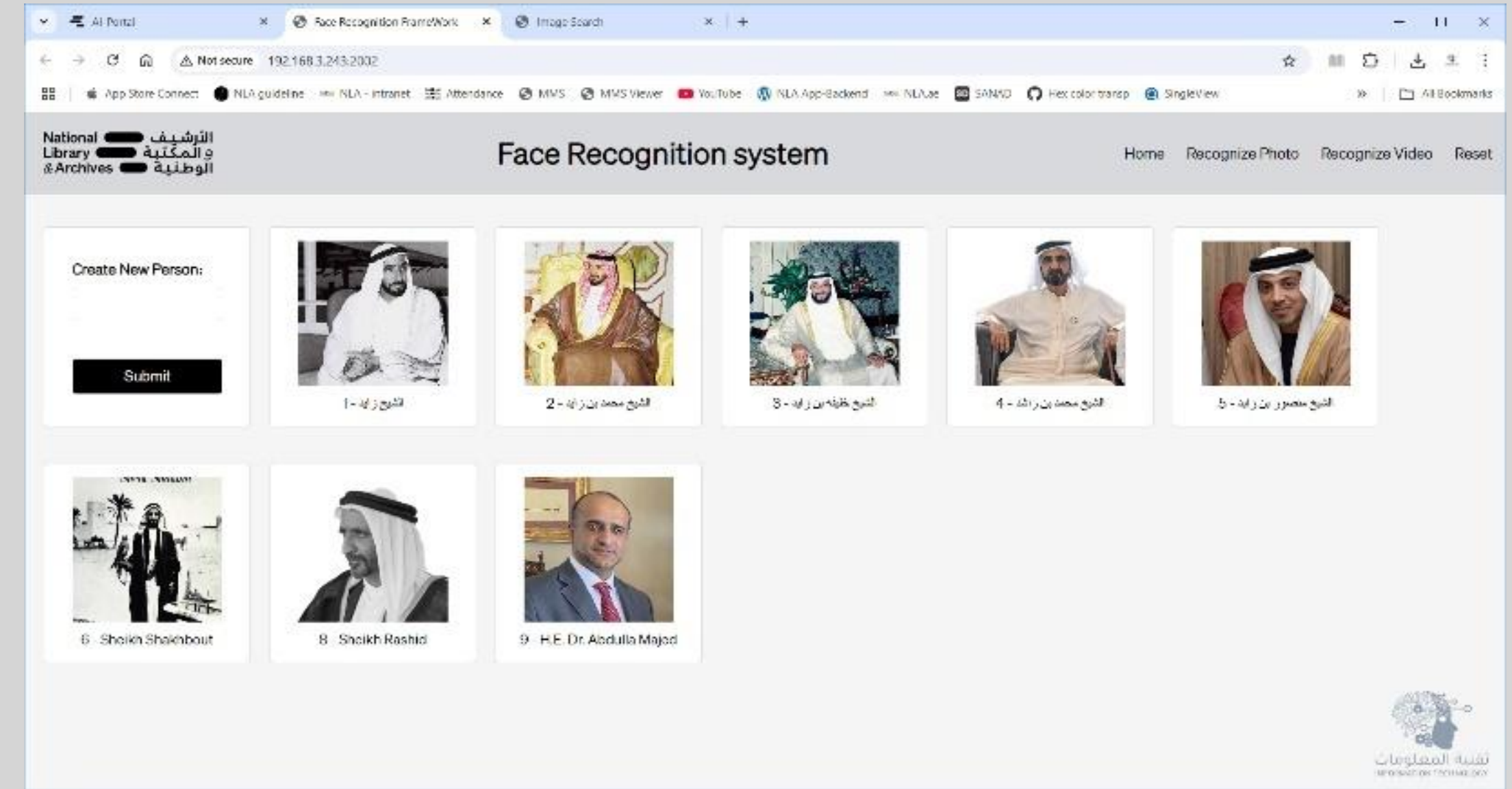
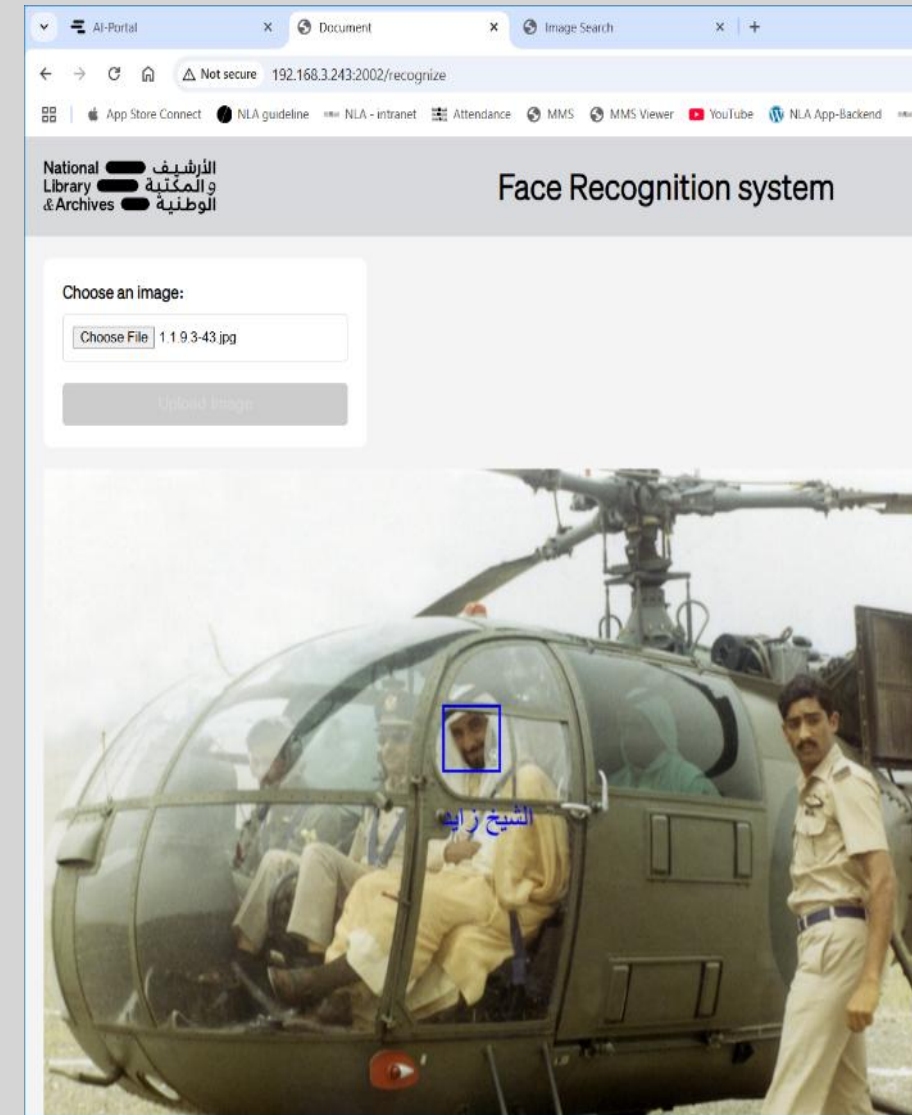


Like the face-search system, the image search system enables users to search databases for related images—for example, the shape of a car, an airplane, or a building. The system can identify matches between images within seconds.



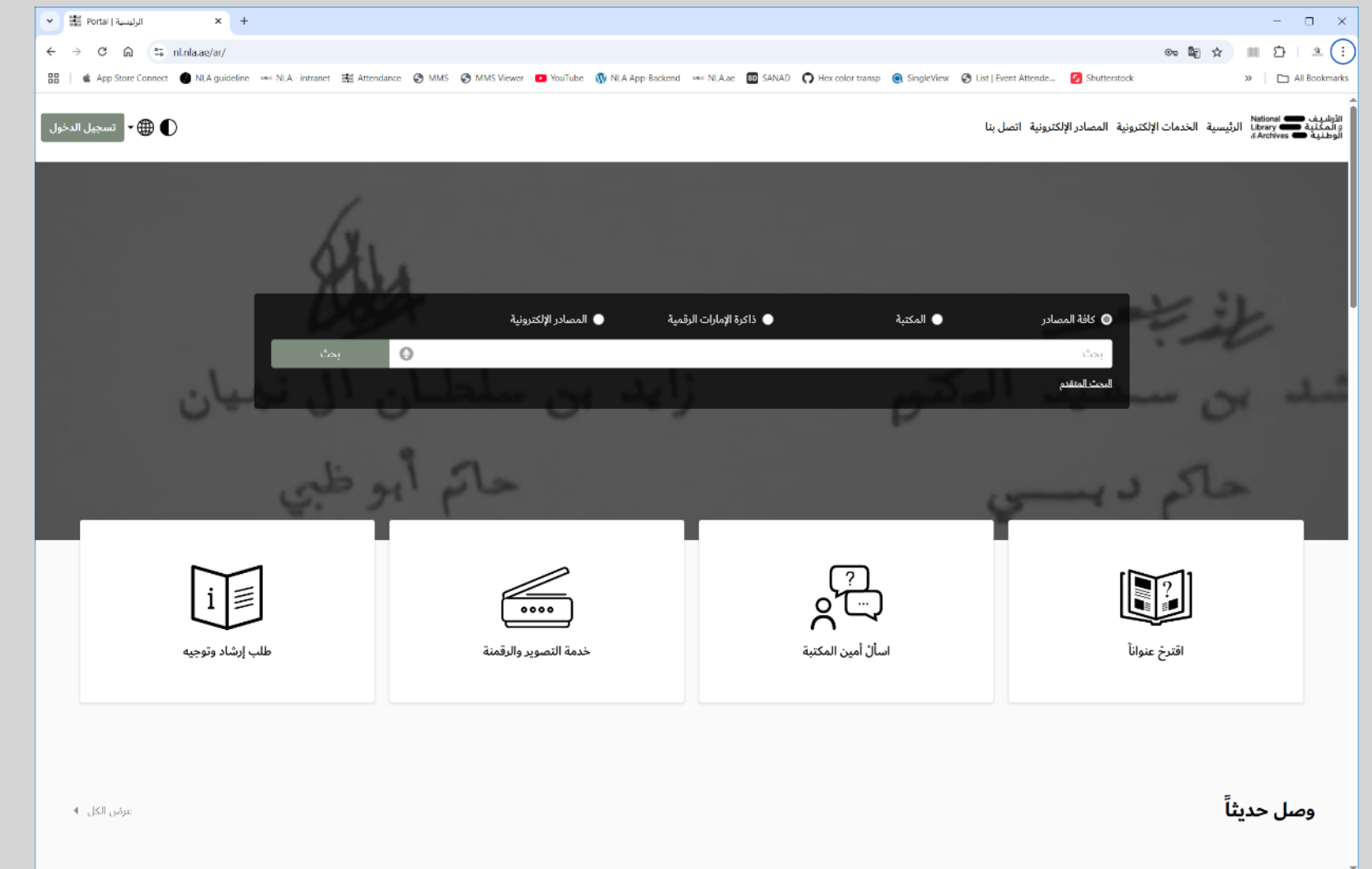


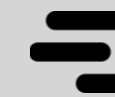
Character Recognition System: The system is trained to recognize each individual character by providing it with images of the character at various ages, enabling accurate identification regardless of age, attire, or whether the photo is in color or black and white. This system serves as a key foundation for developing the automatic image captioning system, as it ensures that all characters in an image are correctly identified.



Libraries - Future Solutions

- Interactive summarization and analysis of library materials.
- Translating book collections to and from multiple languages.
- Conducting deep searches of library content using nlaGPT and normal language.
- Using Chatbot for instant responses to any library-related inquiries..
- Automatically understanding researchers' needs and providing tailored support to help them complete their work.





Thank you