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STUDENT DIGILOCKER

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ABSTRACT

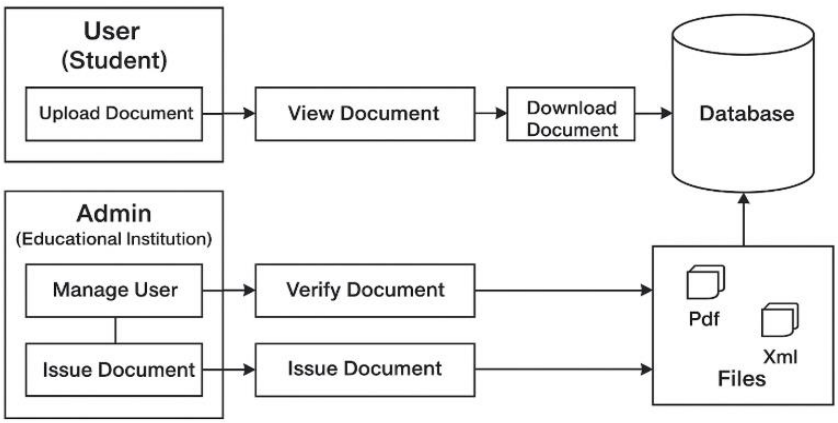
Nowadays, electronic systems enable the rapid creation and distribution of documents. Therefore, people replace paper documents with electronic documents. In academic areas electronic documents as information sources have increased in number and retrieving the information among a huge number of documents has become a problem. A recent study shows positive feedback from students towards establishing a document management system in local universities. New innovative tools are necessary to access relevant information. Faculty of university students are very interested in having a system to manage, retrieve and share documents. Document management systems in the faculty can improve efficiency and effectiveness of research and also can improve knowledge sharing among students and get new ideas from other researchers. Students need a well-organized knowledge repository in order to reuse information throughout the research, creating new opportunities for collaboration, coordination, and information exchange among students that work on a construction project. and consequently reduce costs and response times.

Keywords – Knowledge, management, Education, Internet, Organizations, Computers, Collaboration, Context.

I. INTRODUCTION

DigiLocker is a flagship initiative under the Digital India campaign launched by the Government of India. It provides a cloud-based platform where individuals, including students, can securely store, access, and share important documents in a digital format. For students, this service offers a significant advantage, as educational records like mark sheets, certificates, and other essential documents can be stored digitally, verified, and accessed from anywhere, eliminating the need for physical copies. DigiLocker streamlines the process of managing academic documents, facilitating quick retrieval for job applications, higher education, or any official purposes. It empowers students by offering a secure, paperless environment for their records, contributing to the broader vision of a digitally enabled India. Furthermore, DigiLocker promotes environmental sustainability by reducing the reliance on paper based documentation, contributing to a greener and more eco-friendly approach to academic record management. By eliminating the need for printing and physical storage, it supports digital governance and helps streamline various administrative processes. As technology continues to shape the future of education, DigiLocker stands as an essential tool for students, offering a modern, secure, and efficient way to manage their academic credentials with ease.

II. BLOCK DIAGRAM



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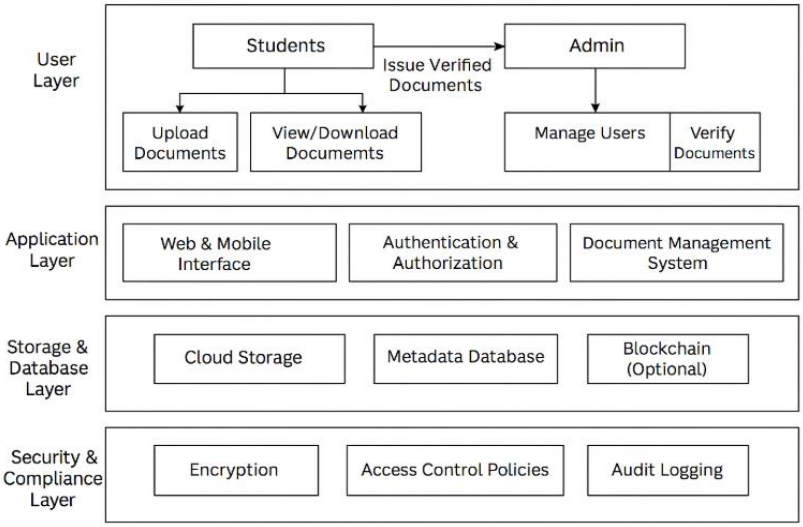
The Student DigiLocker is a secure digital platform designed to store, access, and share academic documents electronically. It enables students to upload and retrieve mark sheets, certificates, and other educational records anytime, eliminating the need for physical copies. Educational institutions and government authorities can issue verified documents directly to students, ensuring authenticity and preventing forgery. The system uses cloud storage for safekeeping, authentication mechanisms (such as Aadhaar-based verification) for security, and access control policies to regulate document sharing. With encryption and audit logging, Student DigiLocker provides a paperless, efficient, and secure solution for academic document management.

III. SYSTEM ARCHITECTURE



The system architecture of the Student DigiLocker is designed to provide a secure, efficient, and automated solution for storing, accessing, and managing academic documents. At its core, the system consists of several key components integrated into a cohesive framework to ensure seamless document handling and authentication.The document management system acts as the backbone, allowing students to upload, store, and retrieve academic certificates, mark sheets, and other educational records. These documents are stored securely in cloud storage, ensuring easy accessibility while eliminating the need for physical copies. Metadata databases keep track of document details, such as issue date, ownership, and verification status.The authentication mechanism is a crucial component, incorporating Aadhaar-based verification, OTP-based logins, and secure credentials to ensure only authorized users access the system. Institutions and government authorities act as administrators, issuing verified digital certificates directly to students, reducing the risk of forgery.A central processing unit (such as a secure server) aggregates and processes all requests, ensuring smooth document retrieval and authentication. Encryption techniques safeguard sensitive academic data, preventing unauthorized access. The system also features an audit logging module, which records user activity, providing a transparent and secure ecosystem for document transactions.To enhance security and accessibility, automated notifications are sent to students when new documents are issued or accessed. Additionally, an LCD-based dashboard provides real-time status updates and alerts to institutions and students, ensuring smooth document management.This integrated architecture ensures that all components work together seamlessly, enabling students to access and share their documents effortlessly while ensuring security, authenticity, and compliance with digital governance standards.

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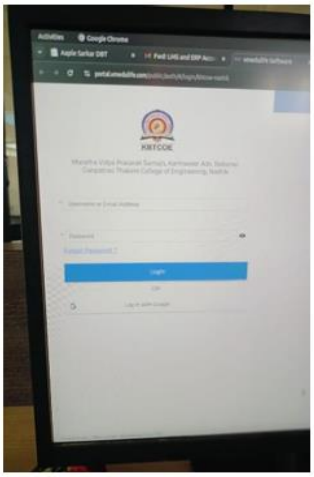
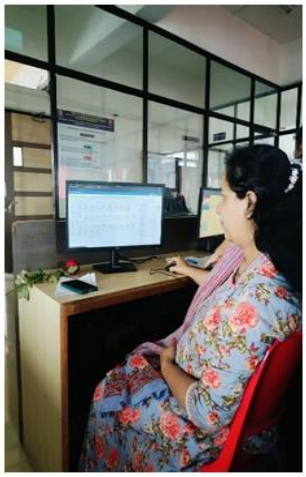
IV. ON GROUND SURVEY

Exploring Issues or Challenges in student digilocker:

1. Document Access Issues: Identify areas where students face difficulties accessing their documents due to server downtime, login failures, or slow response times..

2 Authentication Problems: Locate challenges related to Aadhaar-based verification, OTP failures, or incorrect credential inputs that hinder user access.

3. Storage Limitations: Identify cases where students face issues with document uploads due to storage constraints or unsupported file formats.

4. Security Concerns: Detect potential security risks, such as unauthorized access, data breaches, or phishing attempts targeting student credentials.

5. User Interface & Navigation: Analyze areas where students struggle with navigation, unclear instructions, or difficulty in locating specific documents.

Interaction with student, Faculty and Adminstrators:

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1.Faculty Interviews: Conduct interviews with teachers and administrative staff to understand challenges in issuing, verifying, and managing student documents..

2. Student Surveys**:** Distribute surveys among students to gather insights on their experience with DigiLocker, including ease of access, document retrieval issues, and feature suggestions..

3**.** Focus Groups: Organize discussions with students to address specific concerns related to login difficulties, authentication issues, and document accessiblity

4.Observational Studies: Monitor how students interact with the DigiLocker platform to identify common challenges, navigation difficulties, or usability issues.

5. Feedback Sessions Hold structured sessions with students, faculty, and administrators to discuss findings and implement improvements for a smoother and more efficient document management system

Public Feedback: Troubles Faced in Student digilocker:

1.Login Issues: Students may face difficulties accessing their accounts due to OTP failures, Aadhaar verification errors, or forgotten credentials.

2. Slow Document Retrieval: Users may experience delays in downloading or viewing documents due to server issues or system overload.

3. Limited Storage Capacity: Some students may find it challenging to upload additional documents due to storage restrictions.

4. Confusing Navigation: Students may struggle with finding specific features or documents due to a lack of clear instructions or a complex interface.

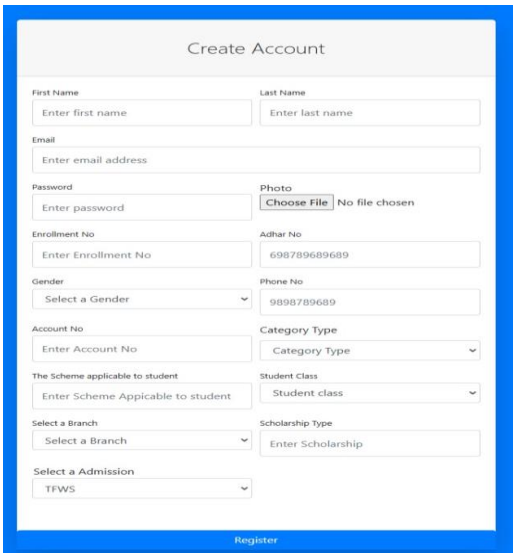
5. Security Concerns: Users may worry about data privacy, unauthorized access, or potential cyber threats affecting their academic records.

6. Lack of Notifications: Students may not receive timely alerts when new documents are uploaded, leading to delays in accessing important certificates.

7. Document Verification Delays: Some institutions may take longer to verify and issue documents, causing inconvenience to students.

8. Inaccessibility during High Demand: Students may struggle to access the platform during peak times, such as admission or exam result periods, due to server congestion.

V. LOCAL HOST AND MODEL



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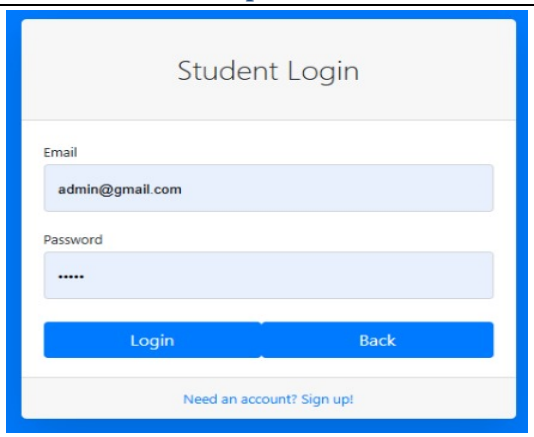

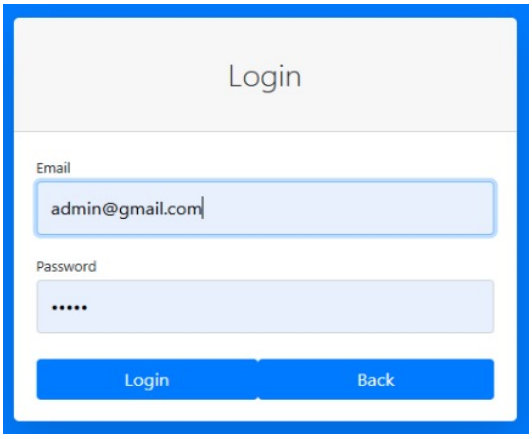

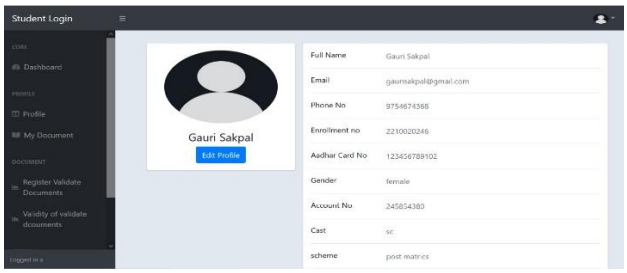

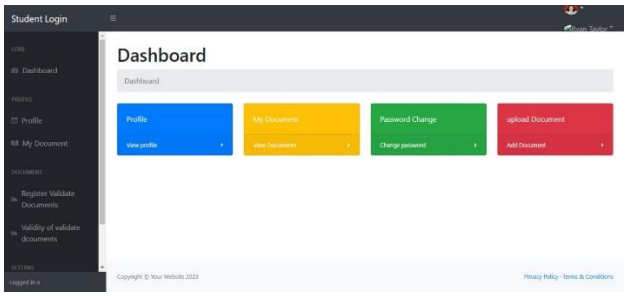

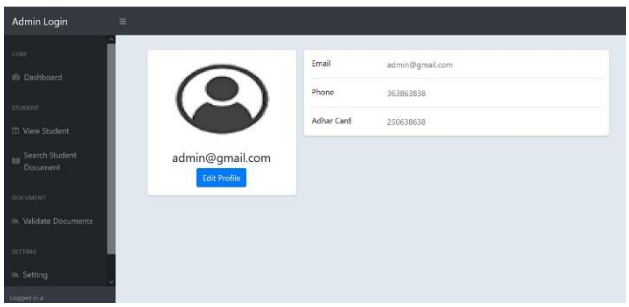

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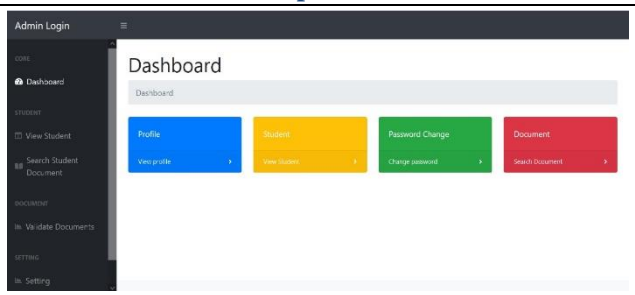

VI. CONCLUSION

The implementation of DigiLocker for students offers a transformative approach to managing academic documents in a secure, efficient, and paperless manner. By integrating educational institutions and promoting the adoption of digital storage, this project addresses the challenges of physical document handling, loss, and fraud. The project not only empowers students with easy access to their verified academic records but also streamlines processes for admissions, employment, and government services.While challenges such as digital literacy and internet accessibility persist, targeted awareness campaigns and digital inclusion efforts can bridge these gaps. The future scope of expanding DigiLocker's services, coupled with the growing acceptance of digital governance, positions this initiative as a vital tool for fostering a digitally enabled, student-friendly ecosystem. Ultimately, the project supports the broader goals of the Digital India initiative, contributing to a more efficient, transparent, and secure future for students.

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