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# Online Evidence Storage Vault

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**ABSTRACT:** The Online Evidence Storage Vault is a mobile application designed to securely store, manage, and retrieve digital evidence in an organized and reliable manner. In many investigation processes, evidence such as images, documents, and other digital records are often stored manually or in unstructured digital folders. This traditional method can lead to problems such as data loss, unauthorized access, misplacement of files, and difficulty in retrieving important evidence when needed. To overcome these issues, the proposed system provides a structured and secure platform for managing digital evidence efficiently.

The main objective of this application is to provide a safe environment where users can upload, store, and manage evidence files along with their corresponding details. Each evidence record includes important information such as evidence ID, description, date, and file type. The system ensures that the data is stored in an organized database so that it can be easily accessed and managed whenever required. The application also focuses on maintaining the integrity and security of the stored evidence by preventing unauthorized access and ensuring proper data handling.

The system is designed to work with a simple and user-friendly interface, making it easy for users to interact with the application without requiring advanced technical knowledge. Users can upload evidence files, view stored evidence, and verify the stored data efficiently. The application also supports offline functionality, allowing evidence to be stored and accessed even without an internet connection. This feature ensures that important information can be managed

## I. INTRODUCTION

In the modern digital world, large amounts of information are generated and stored in electronic form. In many fields such as law enforcement, investigations, and security management, digital evidence plays a very important role in verifying facts and supporting decision-making processes. Evidence may include images, documents, videos, audio files, and other digital records that must be stored safely and maintained without modification. Proper management of such evidence is essential to ensure its authenticity, security, and availability when required.

Traditional methods of storing evidence often involve manual documentation or simple digital storage systems that are not properly organized. These methods may lead to several problems such as data loss, difficulty in retrieving files, duplication of records, and unauthorized access. In some cases, evidence may be misplaced or tampered with, which can affect the reliability of the information. Therefore, there is a need for a secure and organized system that can store and manage digital evidence efficiently.

The **Online Evidence Storage Vault** is a mobile application developed to address these challenges by providing a secure platform for storing and managing digital evidence. The application allows users to upload, store, view, and manage evidence files along with their relevant details such as evidence ID, description, date, and file type. The system organizes the stored information in a structured database, which makes it easier to retrieve and manage evidence whenever needed.



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One of the key goals of this application is to maintain the security and integrity of the stored evidence. The system ensures that only authorized users can access the stored information, thereby preventing unauthorized modifications or misuse. By using secure storage techniques and proper data management methods, the application helps maintain the reliability of digital evidence throughout its lifecycle.

In addition to security, the system also focuses on usability and efficiency. The application provides a simple and user-friendly interface that allows users to interact with the system easily. The design of the application ensures that evidence can be uploaded, stored, and retrieved quickly without complex procedures. Furthermore, the system supports offline functionality, allowing users to manage evidence records even without an internet connection.

Overall, the Online Evidence Storage Vault provides an efficient solution for the secure storage and management of digital evidence. By improving the organization, accessibility, and security of evidence data, the system supports better evidence handling and helps maintain accurate records for investigative and documentation purposes.

### II. OBJECTIVE

1. To develop a secure system for storing and managing digital evidence such as images, documents, and other files in an organized manner.
2. To provide a centralized platform where users can upload, store, and retrieve evidence easily whenever required.
3. To ensure the safety and integrity of evidence data by protecting it from unauthorized access, modification, or deletion.
4. To maintain proper records of evidence by storing important details such as evidence ID, description, date, and file type.
5. To improve the efficiency of evidence management by reducing the risks associated with manual storage methods such as data loss or misplacement.
6. To provide a simple and user-friendly interface so that users can easily interact with the application without requiring advanced technical knowledge.
7. To allow easy retrieval and verification of stored evidence whenever it is required for investigation or documentation purposes.
8. To support offline functionality, enabling users to store and access evidence records even without an internet connection.

### III. EXISTING SYSTEM

In many organizations and investigation environments, digital evidence is commonly stored using traditional methods such as manual record keeping, physical files, or basic computer storage systems. Evidence files like images, documents, and other digital records are often saved in folders on personal computers, external storage devices, or simple database systems. Although these methods allow evidence to be stored, they are not designed specifically for secure evidence management.

One major problem with the existing system is the **lack of proper organization and security**. Evidence files stored in ordinary folders or storage devices can be easily misplaced, deleted, or modified accidentally. Since these systems do not always provide proper authentication or access control, unauthorized users may gain access to sensitive information. This can create serious risks, especially when the evidence needs to remain accurate and unchanged for investigation purposes.

Another limitation of the existing system is the **difficulty in retrieving and managing evidence efficiently**. When large numbers of files are stored manually or in unstructured digital folders, it becomes time-consuming to search for specific evidence. There is also a possibility of duplication of files and inconsistent record maintenance. In addition, many existing methods do not provide a clear way to track or verify the integrity of the stored evidence.

Because of these limitations, traditional evidence storage methods are not always reliable for handling sensitive digital information. These challenges highlight the need for a more secure, organized, and efficient system that can properly manage digital evidence. The proposed Online Evidence Storage Vault application is designed to address these issues by providing a structured platform for secure evidence storage and management.



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### IV. METHODOLOGY

The methodology of the Online Evidence Storage Vault application focuses on designing and developing a secure system for storing and managing digital evidence. The development process begins with analyzing the requirements of the system, identifying the type of evidence to be stored, and determining the necessary features such as uploading evidence files, storing related information, retrieving stored records, and ensuring data security. After gathering the requirements, the system architecture and workflow of the application are designed to ensure efficient handling of digital evidence.

The application is developed as a mobile-based system that allows users to upload evidence files such as images and documents along with important details like evidence ID, description, and date. When a user uploads an evidence file, the system processes the file and stores it in a secure storage location. At the same time, the related information about the evidence is recorded in a local database to maintain proper documentation and easy access to records.

To ensure the integrity and security of the stored evidence, the system may generate a hash value for each file before storing it. This helps in verifying that the stored evidence has not been modified or tampered with. The database maintains structured records of all uploaded evidence, which makes it easier for users to search, retrieve, and manage evidence whenever required.

The application also includes a simple and user-friendly interface that allows users to interact with the system easily. Users can upload new evidence, view stored records, and verify the integrity of files through the application interface. The system is designed to support offline functionality so that evidence can still be stored and managed without requiring an internet connection.

Overall, the methodology focuses on secure data handling, structured storage, and efficient retrieval of digital evidence. By combining proper database management, secure storage techniques, and a simple user interface, the application provides a reliable solution for managing digital evidence in an organized manner.

### V. RESULT AND DISCUSSION

The Online Evidence Storage Vault application was successfully developed to provide a secure and organized platform for storing and managing digital evidence. The system allows users to upload evidence files such as images and documents along with relevant information including evidence ID, description, date, and file type. After uploading, the evidence data is stored in the system database, making it easy to retrieve and manage whenever required.

During the implementation and testing phase, the application demonstrated the ability to store and manage evidence records efficiently. Users were able to add new evidence files, view previously stored records, and retrieve evidence information without difficulty. The structured storage method helped in organizing the files properly, reducing the chances of data loss or duplication. The system interface was designed to be simple and user-friendly, which allowed users to interact with the application easily.

Another important result observed during testing was the improvement in evidence management compared to traditional storage methods. The application provided a centralized location for storing digital evidence, making it easier to search and access files quickly. This improved the efficiency of evidence handling and reduced the time required to locate specific records. The application also maintained the integrity of the stored files by ensuring that the evidence data remained unchanged after storage.

The discussion of the results shows that the Online Evidence Storage Vault application can serve as a reliable tool for managing digital evidence in an organized and secure manner. By providing structured storage, secure access, and easy retrieval of files, the system addresses many of the problems associated with manual or unorganized digital storage methods. Overall, the application demonstrates that a dedicated evidence storage system can significantly improve the management, accessibility, and protection of digital evidence.



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### VI. CONCLUSION

The Online Evidence Storage Vault application was developed to provide a secure and organized system for storing and managing digital evidence. The system allows users to upload, store, and retrieve evidence files along with important details such as evidence ID, description, and date. By maintaining a structured database, the application helps in managing evidence records efficiently and reduces the risk of data loss or misplacement.

The application also improves the accessibility and organization of digital evidence compared to traditional storage methods. With a simple and user-friendly interface, users can easily manage evidence records without requiring complex technical knowledge. The system ensures better handling of sensitive information by providing controlled access and proper data storage.

Overall, the Online Evidence Storage Vault serves as an effective solution for secure evidence management. It enhances the reliability, safety, and accessibility of digital evidence, making the investigation and record-keeping process more efficient and organized.

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