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Topic 1: DESIGN AND IMPLEMENTATION OF A SECURED E-VAULT TO STORE DOCUMENTS

I am writing to propose the design and implementation of a secured e-vault to store documents. Out of many different alternatives to store documents that exists the one that seems to have the most potential and one of the best ways to store passwords in the database is by hashing them. The purpose of this project is to create a secured login to the e-vault in order to secure documents.

PROJECT GOALS

The goal of designing and implementing a secured e-vault to store documents is to create a digital storage system that ensures the confidentiality, integrity, and accessibility of sensitive information. The e-vault will provide a safe and convenient way to store and access important documents.

AIMS AND OBJECTIVES

* The admin will provide a safe and efficient solution for storing and managing sensitive documents for the user.
* A database will be designed to make information retrieval easy.
* The method of documents upload will be done by only the admin as well as creating users credentials by which the employee can access those documents which are stored in the database.

SCOPE OF THE PROJECT

The system will include features like

* Webpage; it shows a module were a registered admin and user can login with their user name and password on their separate login page
* Admin login
* User login
* Admin Dashboard
* Add Admin
* View Admin
* Add user
* View user
* My documents
* Add documents; this allows admin to upload documents of various file type (.docx.pptx.pdf)
* Admin Log History
* User Log History and
* User Dashboard
* Two factor authentication; implementing a strong authentication system to ensure that only authorized users can access the vault. This can include features like usernames, passwords, and possibly two-factor authentication for added security.
* Encryption for stored documents; this adds an extra layer of security to protect sensitive information.
* Backup and recovery
* File versioning; Allows users to store multiple versions of the same documents, enabling them to track changes and revert to the previous versions if needed
* Offline access; Provide users with the ability to access and view their documents even when they are offline. This can be useful in situations where internet connectivity is limited.
* Document Expiry; add the ability for users to set and expiration date for certain documents.

Lastly, the design and implementation of E-Vault security will helps institutions, corporation and organizations to secure their documents from unauthorized access, loss of documents, fire outbreak, environmental hazards and many more. This system should be available to every institution, corporations, and organization that will serve as a means of security.

Topic 2; DESIGN AND IMPLEMENTATION OF A SELF CHECKOUT SYSTEM

INTRODUCTION

A self-checkout system is a machine that allows customers to perform and complete their transaction without any human interaction. The customer picks preferred items from different sections of retail store into a checkout basket. When customer completes this process, the customer proceeds to the self-checkout section consisting of scanning device attached to a computer and a point of sale (POS) machine to make payment.

AIMS AND OBJECTIVES OF THE RESEARCH

* The design a checkout system is secured against fraud and ensures easy and efficient transactions
* To develop a good customer oriented system that provides customers with quality services

SIGNIFICANCE OF THE STUDY

The significance of checkout system includes the following

* It is always easy when it comes to accessing customer review
* The choice of checkout system is infinite

DESCRIPTION OF THE PROPOSED SYSTEM

The proposed new system will make use of files and tables prepared using database to store information about everyday transaction.

The proposed new system is designed to enhance the following:

* Convenience
* Reliability
* Speed optimization and reduce paper work
* Easy update and maintenance operations