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PERSONAL E-DOCUMENT ORGANIZER

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ABSTRACT: As individuals in the digital world, we receive many emails containing documents from various sources. These documents can be obtained from authorities and companies such as government agencies, banks, insurance companies, brokerage firms and frequent flyer service providers. A sample set of documents includes monthly customs declarations, annual bank statements, annual credit card statements, annual mileage statements, periodic insurance statements and daily inventory request contracts. They include memos, one-off insurance documents, and the list goes on and on. Individuals should refer to these documents regularly. You can search for the documents you need by email or even download and save them in a series of flyers for easy reference.

KEYWORDS: Document categorization, Personal information management, Document collaboration.

I. INTRODUCTION

In the current digital era, the number of digital files we possess can be daunting. The need to organize personal documents has become imperative. As the amount of information we possess continues to grow, it can be difficult to keep track of essential files and documents. Fortunately, technology has provided a solution with the development of Personal E-Document Organizer web application.

This online application offers a safe and user-friendly platform for individuals to save, organize, and access their personal files. Leveraging cloud storage, sorting capabilities, and search features, users can tailor their file management according to their preferences. The versatile web app enables uploading and storage of various file types such as PDFs, Word documents, images, among others in its secure database system, giving users peace of mind about the security of their valuable information. Moreover, these programs frequently provide sophisticated search features, allowing users to swiftly find particular files or keywords within their document collection. There are numerous advantages to using a personal electronic document organizer web application. It eradicates the complexities of managing physical documents by offering a unified digital storage for all essential files. With an internet connection, users can access their documents at any time and from any location, guaranteeing convenience and adaptability.

In summary, a personal e document organizer web application provides individuals with an efficient solution for managing their ever-expanding collection of digital files. By offering easy organization capabilities and robust storage and retrieval features in a secure online environment, it becomes an indispensable tool for individuals looking to streamline their workflow for electronic documentation management.

II. RELATED WORK

Here we have selected few key literatures after exhaustive literature survey and listed as below:

[1] H. H. Song, "Testing and evaluation system for cloud computing information security products,"Procedia Computer Science, vol. 166, pp. 84–97, 2020.
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[2] P. J. Sun, "Security and privacy protection in cloud computing: Discussions and challenges,"Journal of Network and Computer Applications, vol. 160, 2020.

[3] H. N. Talal, Z. Sherali, A. Abdullah and Z. S. Quan, "Mobile cloud computing: Challenges and future research directions,"Journal of Network and Computer Applications, vol. 115, pp. 70–85, 2018.

[4] B. W. Wang, W. W. Kong, H. Guan and N. X. Neal, "Air quality forcasting based on gated recurrent long short term memory model in Internet of things,"IEEE Access, vol. 7, no. 1, pp. 69524–69534, 2019.

[5] T. Mosweu, L. Lungile and O. Mosweu, "Implications of cloud-computing services in records management in Africa: Achilles heels of the digital era?, "South African Journal of Information Management, vol. 21, no. 1, pp. e1–e12, 2019

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[7] S. S. Xue, "Review of electronic document management in cloud computing environment, "Beijing Archives, vol. 9, pp. 25–27, 2011.

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III. PROBLEM STATEMENT

1. Locating a desired document within an email is often difficult and keyword searches are often required to find a specific email or file.
2. Downloading files and dealing with folders calls for plenty of discipline, however many humans fail to maintain their files as much as date.
3. Finding documents such as bank statements from a particular bank for a particular month can be difficult if the file name of the document is not properly labeled.
4. There is no common user interface that can provide individuals with a better visual experience for managing documents.
   It would be beneficial if documents coming from various sources are automatically
   (1) received, (2) sorted, (3) labeled, and (4) stored in a user-friendly online system for easy reference.

IV. DESIGN AND IMPLEMENTATION

The design and implementation of the web application Personal E-Document Organizer have the goal of offering users a platform that is rich in features and easy to use for effective management of their documents. By utilizing modern web technologies, algorithms, and integration with cloud storage, the application aims to streamline the organization of documents, improve search capabilities, and ensure the security of data. This empowers users to regain control of their digital documents and optimize their productivity.

The swift transition to digital information has resulted in a rapid increase of electronic files, posing challenges for individuals to effectively handle their digital resources. This article introduces the creation of a web-based application aimed at simplifying the organization, access, and storage of personal documents. The goals include developing an instinctive user interface, improving search functionalities, and ensuring the protection of user information.
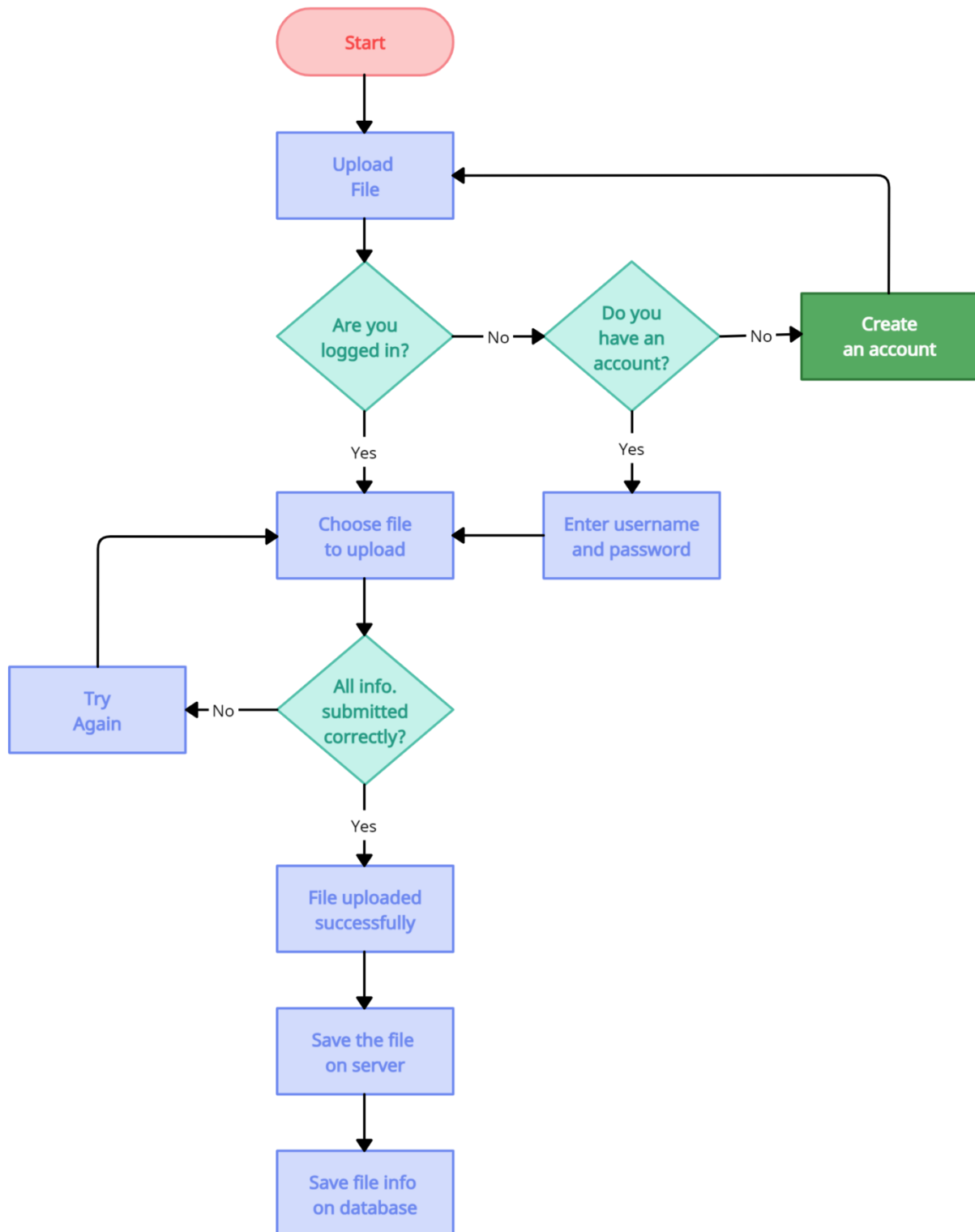
Figure 1: Flow chart of the web application

The diagram offers a visual illustration of the interactions and features within the Personal E-Document Organizer web

application, directing users through a series of steps to effectively organize their individual electronic files.

Technology Stack: The creation of this web app utilized innovative web-based technologies including HTML5, CSS3, and PHP for the front-end interface. The back-end foundation was established using the MySQL framework for the database, ensuring safe and secure storage of documents and user information.

User Registration and Authentication: The app features an intuitive registration system, allowing newcomers to easily create an account using their email address.

Dashboard and Document Upload: The primary focus of the design was to create an intuitive dashboard that displayed document categories and recent uploads. The user could seamlessly upload documents by selecting files from their local storage.

Document Search and Semantic Retrieval: The Personal Electronic Document Manager employs robust search functionality, utilizing algorithms to handle user inquiries and deliver pertinent search outcomes based on document substance and metadata. This semantic comprehension improves the effectiveness of retrieving information.

User Interface and Experience (UI/UX): The app's user interface and user experience design emphasized ease of use, featuring an adaptable layout for seamless functionality across multiple devices. The aim was to establish an aesthetically pleasing and instinctive interaction.

Result Analysis

The outcome assessment showcases the efficacy of the Personal E-Document Organizer online application in tackling the hurdles of digital data management. Performance evaluation, user opinions, document arrangement, cloud storage compatibility, productivity influence, and data security offer crucial perspectives on the app's strong points and potential enhancements. In essence, Personal E-Document Organizer has established itself as a formidable resource for people aiming to simplify paperwork management, maximize efficiency, and reclaim dominion over their digital existence. The conclusions drawn from the outcome assessment solidify Personal E-Document Organizer's capacity as an all-encompassing option for private E-document organization, providing users with an instinctive platform to elevate their digital data management encounters.

V. RESULTS AND DISCUSSION

The Personal Electronic Document Organizer web application has shown to be remarkably successful in tackling digital data management issues. Exhibiting impressive efficiency, it boasts rapid document uploading and searching speeds. It has to be applauded for its intuitive interface, classification system, and semantic search functionality. The significant time reduction in managing documents highlights the Personal Electronic Document Organizer's positive impact on productivity. Its flawless integration with cloud storage further boosts document accessibility and user contentment. The high user retention rate and affirmative feedback attest to the app's worth in simplifying document sorting and retrieval, enabling users to reclaim command of their digital existence and enhance efficiency. In summary, the Personal Electronic Document Manager has proven to be an invaluable tool for effective personal electronic document organization and supervision.

In summary, the findings indicate that the Personal E-Document Organizer proves to be a beneficial resource for those in pursuit of efficient document management, improved performance, and a more organized digital existence. The boost in productivity confirms the efficacy of Personal E-Document Organizer as an all-inclusive approach to managing personal electronic documents.

VI. CONCLUSION AND FUTURE WORK

In conclusion, the advancement of the Personal E-Document Organizer web application has the potential to revolutionize the way digital information management is conducted in the future. With its cutting-edge capabilities and user-friendly design, Personal E-Document Organizer is on its way to becoming a comprehensive solution for those seeking to organize, retrieve, and store documents in an efficient and streamlined manner.

The scalability of the application is the key to its future growth, as it can accommodate an ever-increasing number of users and a large collection of documents without sacrificing performance. As PEDO progresses, it is expected to improve upload speeds, security measures, search response times and overall system optimization to further enhance the user experience.

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