KONARK INSTITUTE OF SCIENCE AND TECHNOLOGY

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Department of Computer Science Engineering

SYNOPSIS ON

"DOCUMENT SERVER"

A Project Submitted

for the partial fulfilment of the Degree of

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Project Guide:

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Document Server

Introduction: -

Document server is an online suite dedicated to storing documents comprising viewers for documents. Document Server therefore offer users a central storage place for files on internal data media, which is accessible to all authorized clients. Here, the server administrator defines strict rules regarding which users have which access rights. For instance, the configuration or document authorizations of the respective document system enable the admin to set which files can be seen and opened by a certain user or user group, and whether data can only be viewed or also added, edited, or deleted. With Document servers connected to the internet and configured accordingly, users cannot only access the files via the local network but also benefit from remote access. This enables file to be accessed and saved on the document server even when users are on the go. All modern operating systems such as Windows, Linux, macOS, can be used on a document server, through the devices available in the network need to be compatible with the operating system. But Document Server are not only used for document storage and management. They are also often used as a repository for programs that have to be accessible to multiple network participants, and as a backup server.

Objective: -

- The basic objective of document server is to upload, view, share and download the data and documents.
- It also provides security to our data and also gives the facility for administrator to have access control over the users and also the search operation.
- The user can categorise the data according to their need as folder. It reduces the problem of size of memory.
- The issue of document losses due to various reason like system crash, virus, etc can be solved.
- It can also be used for future references without any loss of data.

Project scope: -

- This webpage is mainly designed for the companies'/organizations that are in need to manage their data with security.
- It has the capacity to store as many amounts of data in document format.
- The project has an admin who will be having in charge overall on the user and to manage all the operation being done in the webpage like authentication over register, downloading etc.
- It will be easy for managing and retrieving the data by storing it in a file.
- No need to worry about the size of the file because the data will be stored in cloud.
- It also enables users to share information over a network without having to physically transfer files.

Feasibility study: -

Methodology/planning work:

The planning work of the document server system is divided into two section which consist of the hardware and the software part. Before the software design part can be developed, the hardware part is completed first to provide a platform for the software to work. Before the software install and set some tools/application for effective working of the project. We need following tools for the development:

Tools and platform used:

Programming language – PHP

We have used PHP as programming language of the project, which we have used to design our dynamic webpage. It is the most popular web backend programming language. A PHP code will run as a web server module like Apache and need a database server like PostgreSQL. It holds a lot of unique features within it such as Performance, Control, Database Management, Real time access monitoring. It also supports third-party application and security.

Framework – Laravel

We have used Laravel as our framework for this project. Laravel is an open-source PHP framework, which is robust and easy to understand. It is based on model-view-controller design pattern. The advantage is that Laravel uses the existing component of the different frameworks which helps in creating webpages/ web application. The web application thus designed is more structured and pragmatic. It also offers a rich set of functionalities and the web application becomes more scalable, owing to the Laravel framework. It also saves a lot of time in designing the web since components are reused.

Database – PostgreSQL

We have used PostgreSQL as backend database for this project. PostgreSQL is an enterprise-class open-source database management system. It supports both SQL and JSON for relational and non-relational queries for extensibility and SQL compliance. PostgreSQL supports advanced data types and performance optimization features, which are only available in expensive commercial databases, like Oracle and SQL Server. It is also known as Postgres. It is backed by an experienced community of developers who have made tremendous contributions to make it a highly reliable DBMS system.

Editor – Visual Studio Code

For code editing we have used Visual Studio Code. It is a lightweight bur powerful source code editor which runs on our desktop and is available for various operating system like (Windows, macOS and Linux). It comes with built in support for scripting languages and has a rich ecosystem of extension doc other languages (such as C++, C#, PHP, etc). By enabling some more extension we can also access our PostgreSQL database directly from here and also use some themes, debuggers, commands to improve our workflow.

Hardware tool:

Operating system - Windows 8 or later/ MacOS Sierra

Processor - Intel (Pentium 4) or later

RAM - 2 GB

Conclusion:

The project named Document Server is a central server instance in a computer network that enables connected clients to access the server's storage capacities. The term encompasses both the hardware and software needed to implement such a server. As long as they have received the corresponding authorizations, accessing users can open, read, change, delete and download files and folders on a document server as well as even upload their own files to the server.

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