IJNRD.ORG ISSN : 2456-4184
INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT (IJNRD) | IJNRD.ORG
An International Open Access, Peer-reviewed, Refereed Journal

SMART FILE MANAGER

[1]PINDYALA VARALAKSHMI, [2]MANDAPATI REVATHI, [3]VADDADI KRISHNA PRADYUMN, [4]GUBBALA JOHN SIMEON,[5]GANGUMALLA DURGA DEVI
[1]Student, [2]Student, [3]Student, [4]Student, [5]Assistant Professor
[1]Department of Computer Science and Engineering,
Ideal Institute of Technology, Vidyuth Nagar, Kakinada-533005, Andhra Pradesh, India

Abstract:

Smart File Manager (SFM) is a system software developed in PHP to create software for managing files by providing changes to the system files. The Smart File Manager (SFM) introduces a revolutionary approach to centralized file storage and management. SFM offers tailored portals for administrators, faculty, and students, catering to their distinct needs. Administrators have comprehensive control over file management, ensuring efficient organization and access privileges. Faculty members benefit from a user-friendly interface for uploading, categorizing, and sharing course materials, enhancing accessibility for students. Students have easy access to files within SFM, allowing them to effortlessly search, view, and download course materials.

1.0: Introduction:

The Smart File Manager is a powerful tool designed to simplify file management tasks for educational institutions. With distinct logins for administrators, faculty members, and students, it offers tailored functionalities to meet the diverse needs of users. Administrators hold the highest authority, capable of adding both faculty members and students to the system. This functionality allows for efficient management of user accounts, ensuring that the platform remains organized and accessible to all stakeholders.

Faculty members play a crucial role in the Smart File Manager system, as they have the ability to upload course materials, lecture notes, and assignments for students. With the privilege to add students to specific courses, faculty members can ensure that relevant files are accessible to the appropriate individuals. Additionally, faculty members can utilize the platform to share important announcements or supplementary resources, enhancing the learning experience for students.

For students, the Smart File Manager serves as a centralized hub for accessing course-related materials uploaded by faculty members and administrators. Through their login credentials, students can easily view and download files relevant to their courses, facilitating seamless access to educational resources. This streamlined process reduces the need for manual distribution of materials and promotes digital literacy among the students, ultimately enhancing their academic experience.

2.0: Literature review:

2.1: Traditional Smart File Manager:

Traditional smart file manager in colleges relied on manual processes and physical documents. When a document needed to be stored, it was typically printed or written on paper and organized manually into files or folders. These files were often kept in cabinets or storage rooms, organized by subject, department, or other criteria. Access to these physical files was restricted based on security policies, often requiring individuals to sign out documents or request access from administrative staff. Retrieving specific documents involved physically searching through the organized files, and collaboration or sharing typically occurred through the distribution of physical copies via mail or in-person delivery. Maintenance of these physical documents required efforts to prevent damage from environmental factors and ensure their long-term preservation. Overall, traditional smart file manager in colleges before computerization relied on labor-intensive manual processes for organization, retrieval, and security of documents.

2.2: Introduction to Automated Smart File Manager:

An automated Smart File Manager tailored for college use represents a significant advancement in organizing, storing, and accessing educational resources and administrative documents. Designed specifically for the unique needs of academic institutions, such a system streamlines various tasks involved in managing digital files, ranging from course materials to administrative records. By leveraging automation and advanced functionalities, it simplifies file organization, enhances accessibility, and improves overall efficiency within the college environment.

2.3: Evolution of Smart File Manager:

Smart file managers have changed a lot over time. At first, they were basic tools just for organizing files. But as more and more digital stuff piled up, they got better. They added features like search to help you find things faster and tools to organize files neatly. Then, they got even smarter with AI, which helps them do things automatically, like organizing files or finding duplicates. They also got safer, with better ways to protect your files from prying eyes. And now, they even help teams work together on files, no matter where they are. So, smart file managers have come a long way to make handling all your digital stuff easier and safer.

2.4: Enhancing Smart File Manager with Download Option:

Enhancing a Smart File manager involves integrating a download option and a download counter to enrich its functionality and user experience. The download option should be prominently displayed next to each listed file, ensuring easy accessibility for users. When clicked, this option initiates the download of the corresponding file to the user's device. Additionally, a separate tab dedicated to download statistics can be implemented within the file manager interface. This tab would display a comprehensive list of files available in the file manager, along with the number of times each file has been downloaded.

.

3.0: Existing System:

Extensions of Smart File Manager can be seen in various contexts, including messaging apps like WhatsApp, cloud-based services like Google Drive, and portable storage devices like USB Pendrives. WhatsApp allows users to send and receive various types of files, including photos, videos, audio files, and documents.

WhatsApp automatically saves received media to the device's storage. Users can manage these files within WhatsApp or through the file. WhatsApp also integrates with cloud storage services like Google Drive or iCloud for backing up chats and media. Google Drive provides a cloud-based smart file manager where users can upload, store, organize, and share files and folders. Google Drive includes features for real-time collaboration on documents, spreadsheets, and presentations. Integration with Apps: Google Drive integrates with other Google services and third-party applications, allowing seamless file management across different platforms and devices. Users can organize files and folders on a pendrive similar to a local hard drive. Pendrives are compatible with various operating systems and devices, making them versatile tools for file management and data storage on the go.

These extensions of file management systems demonstrate the evolving nature of digital file handling, emphasizing convenience, accessibility, and integration across different platforms and devices.

Drawbacks:

- In contrast to the method of sharing files via pendrives, where files are passed from one member to another through a pendrive, there is a need for physical transfer.
- Google Files provides a convenient and accessible solution for general document collaboration.
- While WhatsApp file sharing suits informal communication and file sharing among individuals or small groups.

4.0 Proposed System:

Our proposed Smart File Manager offers download functionality akin to WhatsApp's file downloading, allowing users to easily download files shared within the platform. Drawing inspiration from Google's search capabilities, the system facilitates efficient file retrieval through advanced search features, ensuring users can quickly locate and download specific files based on their needs. There are no chances of losing the data from the database. The proposed system is very reliable and efficient to carrying out the test.

Advantages:

- Easy File Downloading.
- Efficient File Retrieval.

- Improved access to educational resources.
- Scalability and Adaptability.
- Monitoring file usage.

Technology Stack

- **Front-End**: Developed using HTML and CSS for the user interface.
- **Back-End**: Utilizes MySQL, PHP, and JavaScript for database management and server-side processing.
- **Compatibility**: Runs on Windows environments such as Win9x, NT, and Windows 10, 11.
- **User Access**: Accessible via web browsers, making it easy for users to interact with the system.

Technical Feasibility

- **Availability**: All required hardware and software components are readily available on the market.
- **User-Friendly**: The system is fully GUI-based, ensuring ease of use. Inputs are designed to be self-explanatory, even for non-technical users.
- **Training**: Proper training sessions have been conducted to familiarize users with the system, ensuring they feel comfortable using it.

Operational Feasibility

- **Time-saving**: The system saves significant time for customers by automating the ID card generation process.
- **Convenience**: Services can be accessed by customers at their workplace, enhancing convenience.
- **Cost-effective**: The cost of implementing the system is minimal compared to the benefits. The initial investment covers the necessary hardware and software, with no need for further enhancements.

Economic Feasibility

- **Low Initial Investment**: The system's initial cost is the primary expense, with readily available and affordable hardware and software.
- **Cost-Benefit Ratio**: The benefits, such as time savings and improved service efficiency, far outweigh the initial costs, making the system economically feasible.

The proposed system for Smart File Manager is technically, operationally, and economically feasible. It leverages commonly available technologies and provides a user-friendly, cost-effective solution for smart file manager.

5.0: Implementation:

XAMPP stands for Cross-Platform (X), Apache (A), MySQL (M), PHP (P), and Perl (P). It allows developers to create a local web server for testing purposes.

5.1: Steps to Install XAMPP:

1. **Disable anti-virus and UAC (User Account Control).**

- Disable your anti-virus software temporarily.
- Disable User Account Control (UAC) to avoid installation issues. Instructions can be found online.

2. **Download and install XAMPP**.

- Download XAMPP from the official website: apachefriends.org.
- Run the XAMPP installer by double-clicking it. Click ‘Next’ on the splash screen.

3. **Select components**

- On the component selection screen, leave the default options selected and click ‘Next’.

4. **Choose Installation Folder**

- Choose the folder where you want to install XAMPP. The default is usually fine (e.g., C:\xampp).

5. **Complete Installation**

- Click ‘Next’ to start the installation process and then ‘Finish’ when done.

5.2: Setting Up Project

1. **Add Project Files**

   Copy your project folder (e.g., `file manager`) into the `htdocs` folder in the XAMPP installation directory (`C:\xampp\htdocs`).

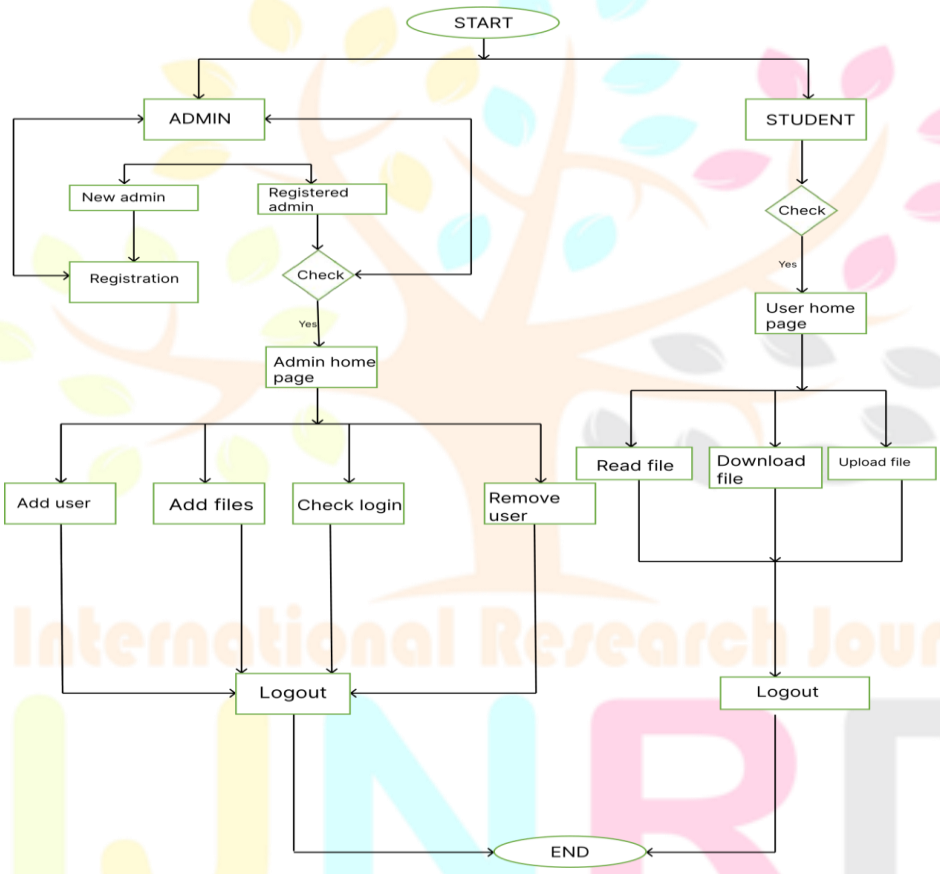
2. **Import the Database**

Open the browser and go to phpMyAdmin. Create a new database and import the SQL file (e.g., `file management.sql`).

3. **Run Project**

Open Bowser and navigate to your project URL. For example, if your project is in a folder named `file manager`, go to: `http://localhost/fmsmdbootstrapdesign/Private_Dashboard/`..

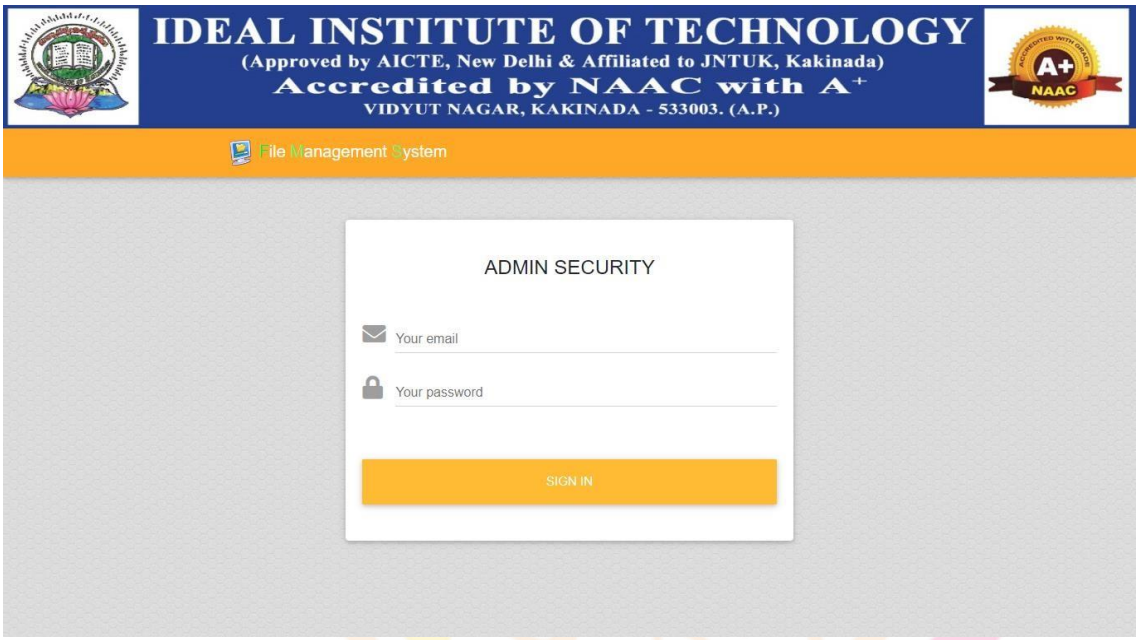
6.0: Flowchart:

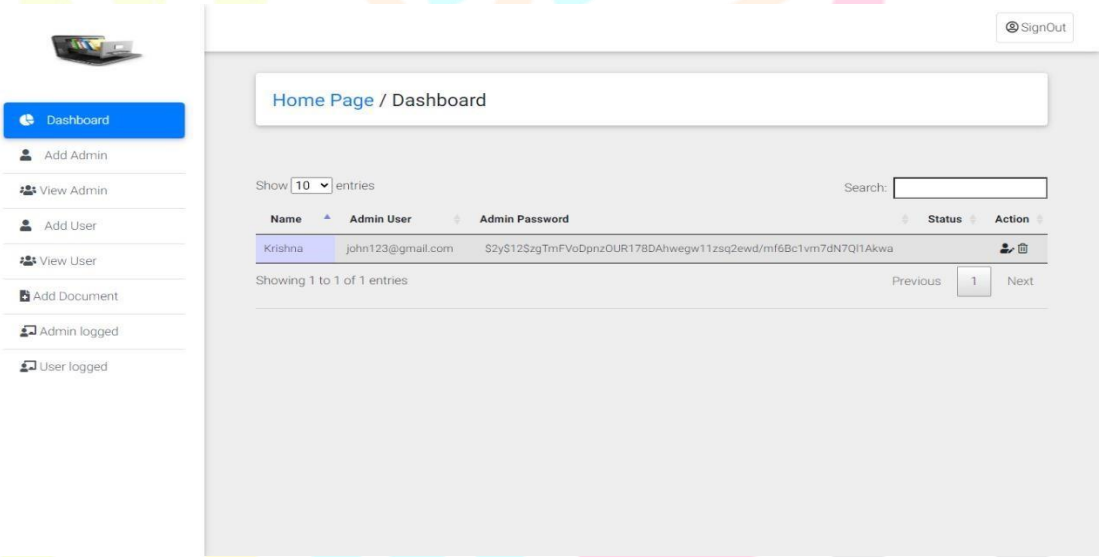


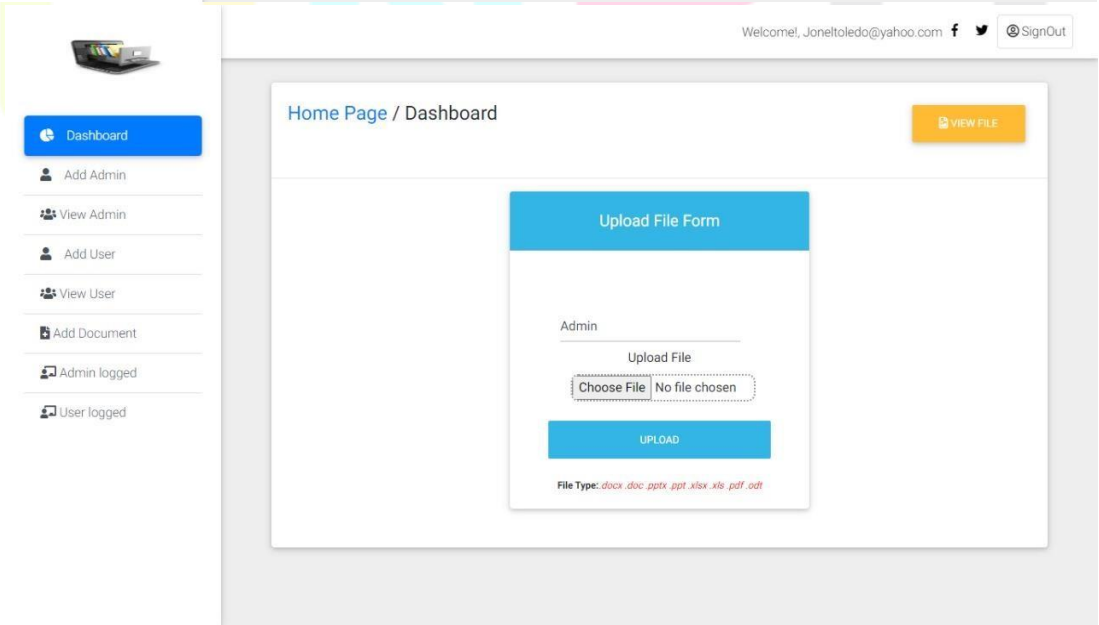
7.0: Modules of the Project:

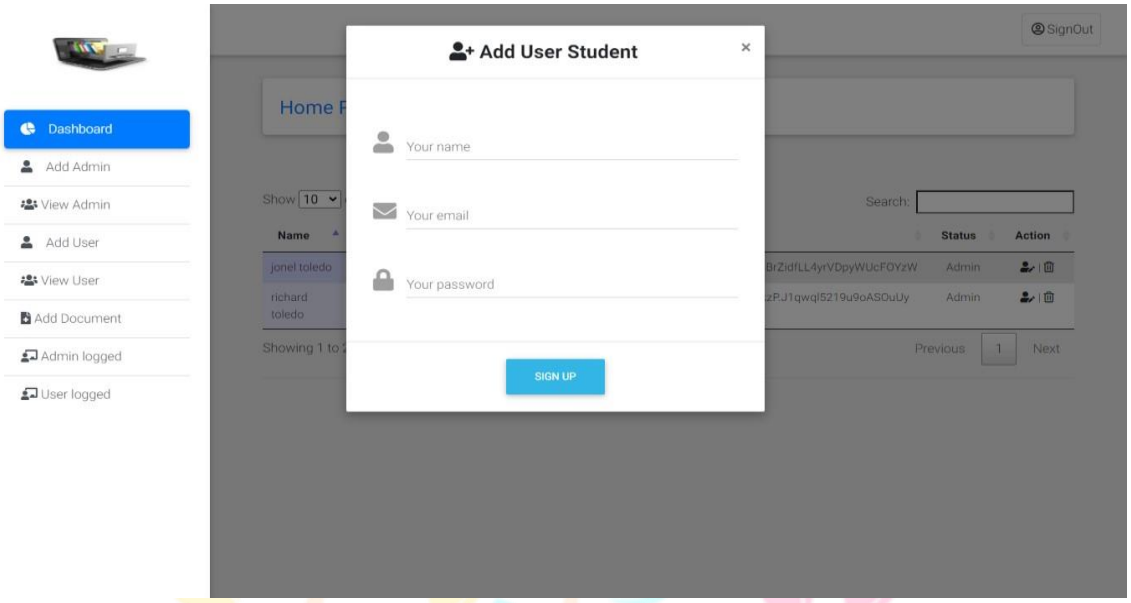
- After Admin Login
  - Add Admin with View/Edit/Delete
  - Add Student with View/Edit/Delete
  - Add Document
  - Download/View File/Delete file
  - Show Admin Logged
  - Show Student Logged
  - Show table records
- After Student Login
  - Add Document
  - Show table record

- Show student Logged
- Download file

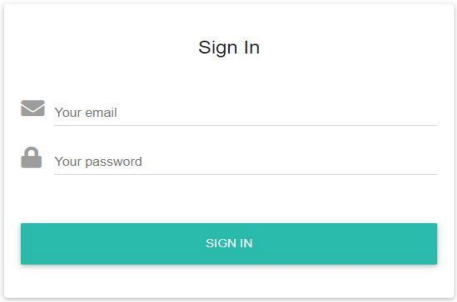


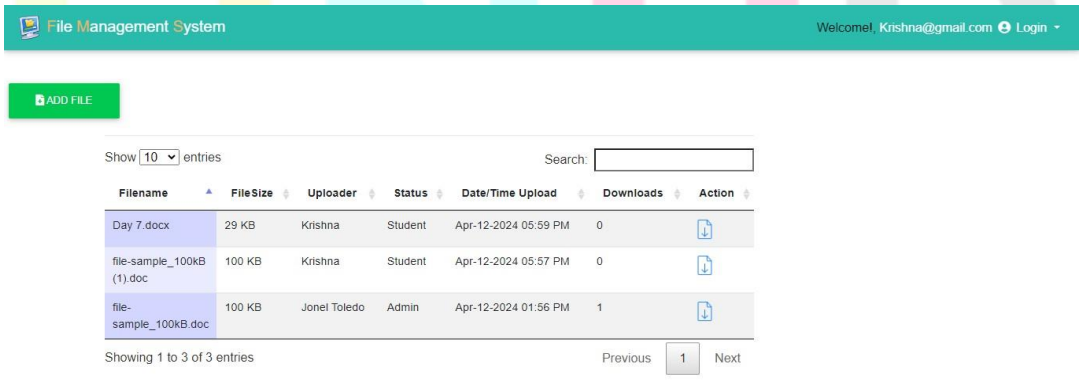





Dashboard
Add Admin
View Admin
Add User
View User
Add Document
Admin logged
User logged
SignOut
Add User Student
Your name
Your email
Your password
SIGN UP
Search:
Name
Status
Action
Previous
Next


IDEAL INSTITUTE OF TECHNOLOGY
(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada)
Accredited by NAAC with A+
VIDYUT NAGAR, KAKINADA - 533003. (A.P.)
NAAC
File Management System


Sign In
Your email
Your password
SIGN IN


File Management System
Welcome!, Krishna@gmail.com Login
ADD FILE
Show 10 entries
Search:
Filename
FileSize
Uploader
Status
Date/Time Upload
Downloads
Action
Day 7.docx
29 KB
Krishna
Student
Apr-12-2024 05:59 PM
0
file-sample_100kB (1).doc
100 KB
Krishna
Student
Apr-12-2024 05:57 PM
0
file-sample_100kB.doc
100 KB
Jonel Toledo
Admin
Apr-12-2024 01:56 PM
1
Showing 1 to 3 of 3 entries
Previous
1
Next

8.0: Conclusion:

In conclusion, the Smart File Manager project represents a significant advancement in file organization and accessibility tailored for college use, The Smart File Manager simplifies the process of storing, retrieving, and sharing files within the college community. Students can easily access course materials, assignments, and research papers, while faculty members can efficiently organize lecture notes, research publications, and administrative documents. By embracing the Smart File Manager, colleges can foster a more collaborative and efficient learning environment, where students and faculty alike can focus on their academic pursuits without the hassle of dealing with cumbersome file management tasks.

9.0: Future Scope:

The scope of this project is very broad in terms of gaining knowledge and sharing knowledge around the world.
The main future scope of the project is:

- This website can have a third module for faculty login.
- This website can plan to incorporate materials that comply with college regulations into our smart file manager.

10.0: References:

1. SQL: The Complete Reference, Second Edition, by James R. Groff and Paul N. Weinberg.
2. PHP and MySQL Web Development" by Luke Welling and Laura Thomson.
3. CSS: The Definitive Guide" by Eric Meyer and Estelle Weyl

E-References

1. https://stackify.com/php-error-handling-guide/