

# File Tracking System Based On Railway Management

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**Abstract:** This application is used for terminate the corruption. There are a lot of files in the computer , it is very difficult to find a file. For that, the file tracking system is an application designed to track every task in the software development lifecycle. The client can easily upload and download files and track any file without any difficulty. This application based on two modules admin and User, Admin can see the all files created by the user and Sometimes someone wants to do corruption , he does not even send the file forward, in a way the file is stopped. Admin direct can send mail or message to the user of that department and ask why this file is stuck for so long, what is the reason for keeping it for so long and the user will have to tell about file to the admin. In this way the corruption will stop because the Admin can see each and every movement of the file, so the user will not even hold the files and will approve the file and pass it on to the next receiver.

## I.INTRODUCTION

File Tracking System This application has two modules, one is admin and the other is user. The DRM will work under the Admin and the Users of the rest of the department will work under that DRM. Admin module will have Departments, Designation and Files type from the beginning. The User of any department like the first user of the Medical Department will create a file and it will send the file to the Safety Department in which the file will be fully processed after receiving another user file. So he will show the status of the file complete and if there is any process he will send the file to another department. The file will remain pending until it is approved or completed. If at any time the user has to do the corruption, he will stop the file. In this case the File Tracking Application is used. Using this, new files can be created in the computer. With its use, files can be stored in a systematic manner in the hard disk of the computer. Helps to find these files stored in memory very easily as quickly as possible. It helps in sharing files and information stored in it very easily among different users. It helps in storing different files in different folders as per the requirement of the user. Using the file tracking system, the user can manage different types of files such as txt, doc, pdf, mp4 etc. and can also add various security related features to them. It helps in modifying or updating the names of the files and the data stored inside the files as per the requirement of the user. In this DRM can view every file of any department and he can see the date on which the file was sent and he can see how many days the file has been waiting. DRM Direct will call the user of that department and find out why this file has been delayed for so many days. What is the reason for stopping and the reason that the user has to tell that reason will reduce the corruption.

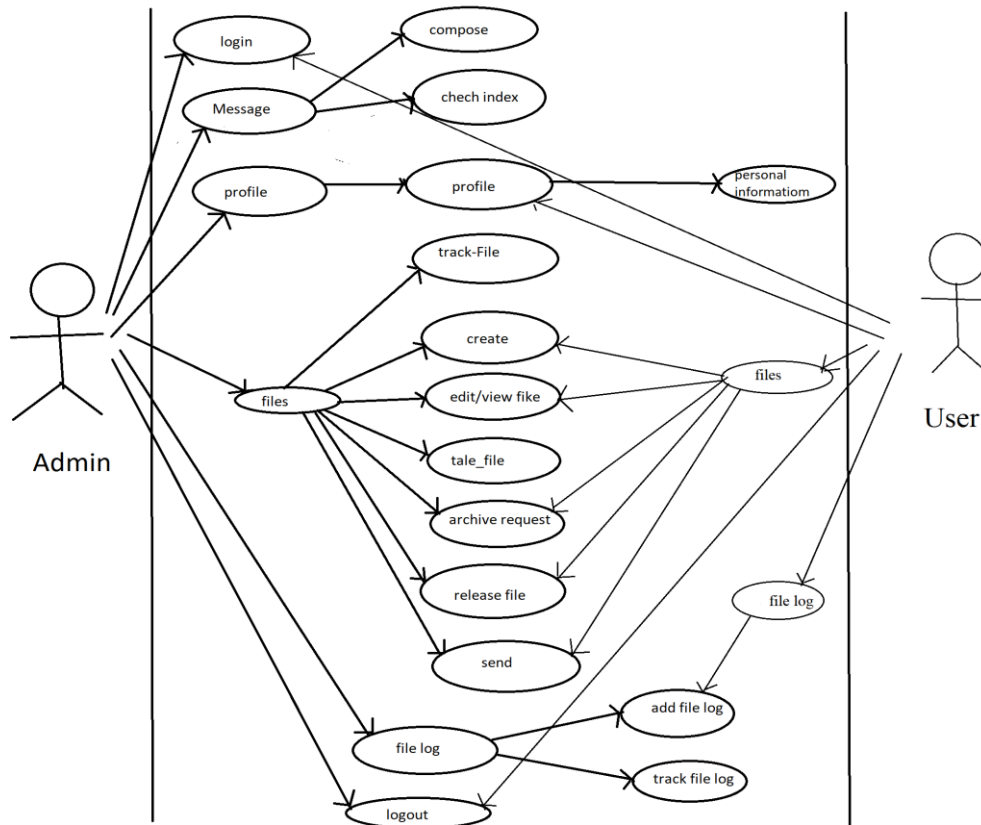


Fig. Use Case diagram for file tracking system

**II.COMPONENTS & SOFTWARE USED**

**1. Software Requirement**

- Visual studio 2012.
- Front End : HTML, CSS, Bootstrap, JavaScript
- SQL Server 2012.
- Windows 10
- Three Tier Architecture

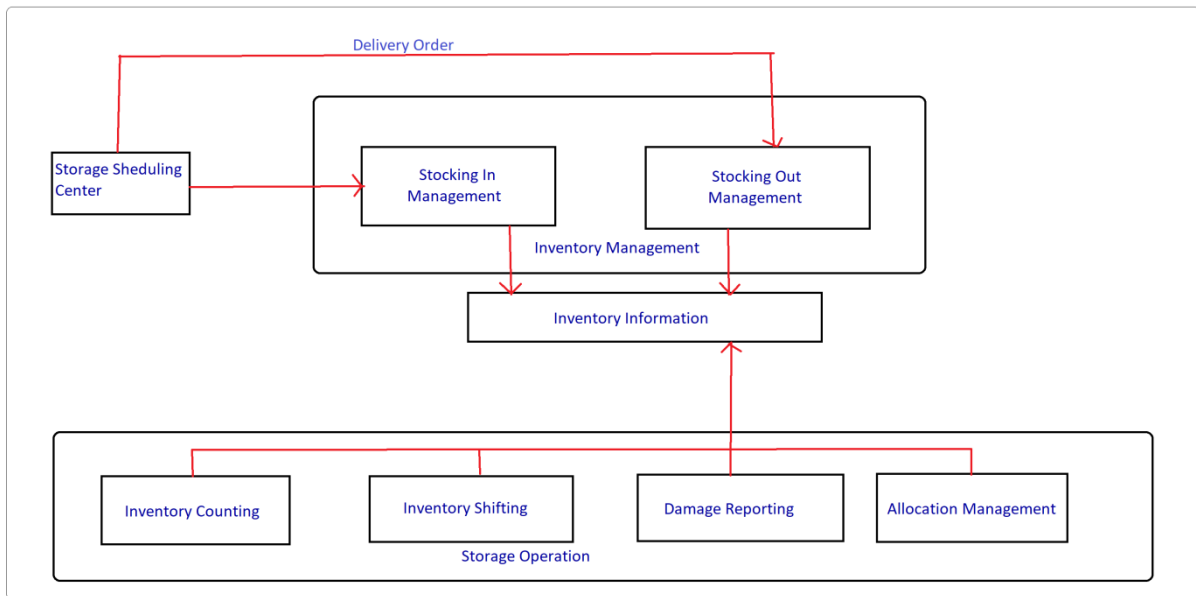
**2. Hardware Requirement**

- Memory: 1GB RAM
- I5 Processor Based Computer
- Hard Drive : 50GB
- Internet Connection

**III.PURPOSE**

In this project, the File Tracking System is used for reduced the corruption. If there is a stock management department in the railway department, then there will be railway goods, such as Sleepers, Ballast, Slabs, Rails, Subgrade, Loose Jaws, Keys, Steel Rail, Fish Bolt, Railway Fish Plate, Railroad Spike etc. This material information files will transferred from one department to another. If the other user wants to corruption, he will remove some parts from the stock and show the

entry of the remaining parts and then he will send the same file to another department for the rest of the process. Describing proposed system defines the applicable things for the project which works and provide a flexible system. It provide user friendly, secure and proper stock management in the different sections for the warehouse system. Interface is better between working component and authenticated users.



Also, it will be a step by step process to verify the documents of the retired person who gets pension this document will be transferred from one department to another. If someone wants to do corruption here, he will stop the file and this file not share to the another department. Due to this the person will not get pension and if that person will be asked in that department so, with some excuse, he will avoid that things. DRM can see every file of any department and he can see the date on which the file was sent and he can see how many days the file has been waiting.. If the file is on pending status DRM Direct will call the user of that department and find out why this file has been delayed for so many days. What is the reason for stopping and the reason that the user has to tell that reason will reduce the corruption. This application is designed to reduce corruption in this way.

#### IV.THREE TIER ARCHITECTURE

The basic concept of 3-Tier Design is that we can divide any application into three parts on the basis of its functionality:

- Presentation Tier
- Business Tier
- Data Tier

If we represent these three layers by a simple diagram, then our diagram can be something as follows, which is representing different .NET Platform with specific layer, which are used while implementing that specific layer.

1. Presentation Tier : Under the Presentation Layer, there is a user interface visible to the user, through which the user inputs data into the application and that data is validated. Also, all the events related to the application are fired by this layer, and they are also handled by the event handlers of this layer.
2. Business Tier : Under this, the logic related to the business of our application is implemented. For example, for an e-commerce application, all the tasks performed by the application which are related to the business, such as applying Valid Coupon Code, order placing, shipping charges, calculating etc. are those logic related to the application, which are This is known as Business Logic and is implemented in this Business Tier. Under this Business Layer, Generic .NET Operations like establishing a connection with a database or opening a stream file are not involved, as these operations are not related in any way to the Underlying Business Model.



3. Data Access Tier : Under the Data Layer, we do that Logic Place, which is related to Store and Retrieve various Business Data related to our Application in the Underlying Database. That is, any type of interaction with the Underlying Database or File Stream, which is related to the data of the Underlying Business of our application, is handled by this layer and usually through SQL Query and Stored Procedures is defined.

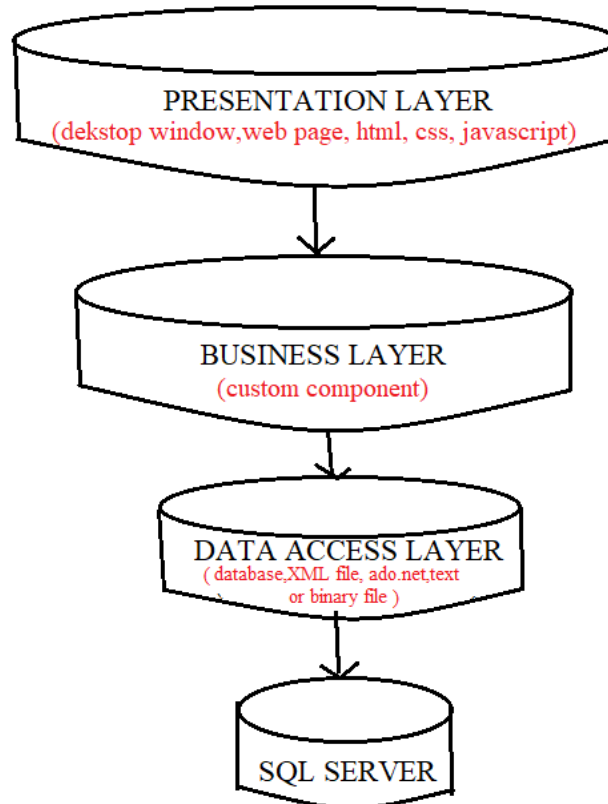


Fig. 3 Tier Architecture

#### V. ADVANTAGE OF 3-TIER ARCHITECTURE

High performance, Lightweight, Persistent object. Better to re-use, Performance is better because the presentation tier can cache request, Easy to maintain and modification. The main three-tier advantage is improved scalability, as application servers can be deployed on multiple machines. Also, the database does not form long-term relationships with each client it only requires connections to a small number of application servers. Network utilization is minimized the load is reduced. Improve data integrity and Improve security.

#### VI. ALGORITHM USED IN SYSTEM

In this type of cryptography technique, the sender does the data encryption using the receiver's public key and this data / message can be decrypted only with the help of the receiver's private key. Receiver's private key is only with the receiver, no one else can decrypt it. For this reason Asymmetric Cryptography is also called Public Key Cryptography. The RSA algorithm is used in Asymmetric Cryptography. This Cryptography technique is more secure. With the help of cryptography, we can communicate data / messages securely. Data Encryption and Data Decryption are used in cryptography so that a third person can access the data but cannot understand it. Cryptography protects the information from hackers by keeping it secure. The most commonly used Symmetric Algorithm is the AES (Advance Encryption Standard) algorithm is used in this system. As stated by Shish Ahmad et. Al. in [2] symmetric key algorithms are preferred over the public key cryptography.

This algorithm is used because if a hacker wants to hack the system, he will try to access the password. Then he will get that password in coded form. That password will not come to him in the original form, so he will not be able to hack the system. Whenever a hacker wants to access the password, he will get that password in encrypted form and when the user wants to access that password, he will get it in decrypted form. This is how this algorithm has been used in this project.



Cryptography is a very basic technique for data security in File Tracking System. It is ideal to choose the most efficient cryptographic algorithm in all aspects; operation speed, storage and power consumption [3].

The Advantage of a AES as follows :- To securely transfer any important information from one place to another. Encryption is an effective technology. Encryption can be used for the privacy of files in any device, Encryption is the most useful technique to maintain the authority of any data or information. This algorithm can be used to avoid data corruption integrity attacks.

## VII.CONCLUSION

We know that File Tracking System is a web based application. In this paper, we discuss, design and implementation of this File Tracking System. We implement this file tracking system for Railway Management System we all know Railway Department have a lot of paper work and file management to handle this we developed this system. To save the time and energy of employee of railway organization file tracking system is very essential. By using this system we can track the record of any files e.g. which files is moved forward and which is not in the department and which file is going to a particular department or not. This system is very helpful form Railway System to know the status of their files. All these issues and problems need to be solved to make sure every source and information can be used effectively. Therefore, a File Tracking system needs to be developed for the benefit of all the stakeholders that are involved in using the file tracking system in the Institution. The current method of File Management in the Institution has to be automated with the availability of higher technology and higher specification software.

## VIII.EXISTING SYSTEM

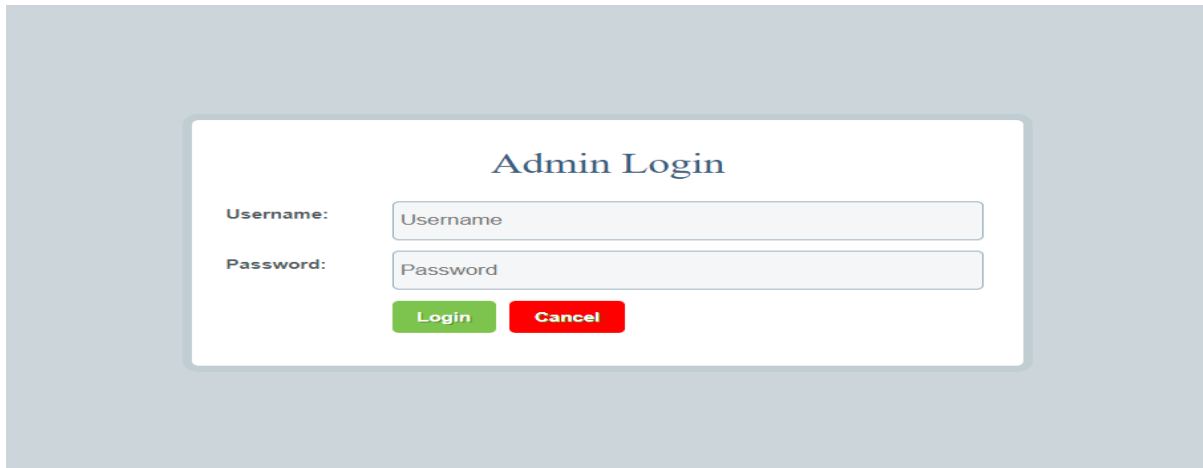
There are so many Department are included in the existing Railway Department, like division and subdivision and zones and based on their roles they are distributed. The department have so many files on which the user perform activities of files are performed by different methods like sending the files to a department. Because of a huge database the Railway Department faces difficulty to process traditional methods which takes lots of time to process from clerk to office to main administrator. Processing the files physically becomes harder. When the file are move from one department to another department a person who sending the file maybe will not send the file but by using this system admin can know the file or not simply this system can reduced the corruption.

## IX.REFERANCES

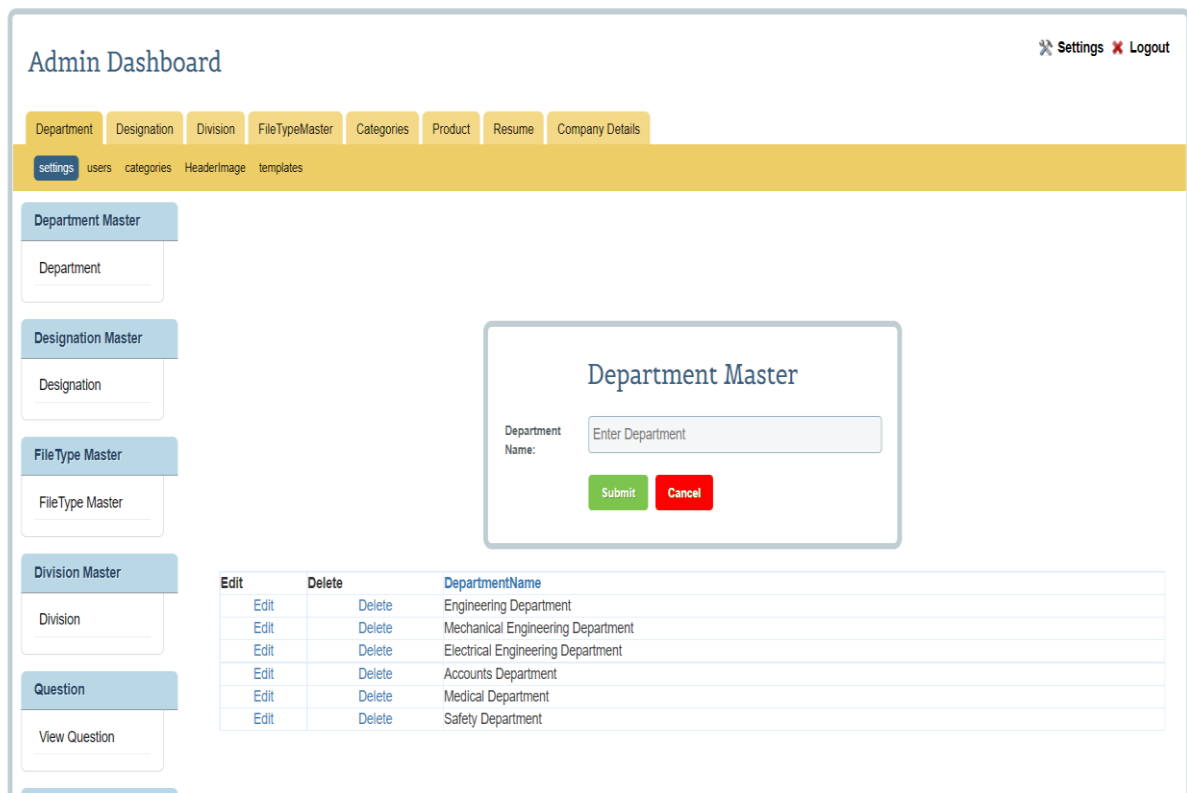
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- [4].N.A. Omoregbe, A.O. Adewumi, A. A. Azeta, E. E. Eden and H. Krasniqi, "Development of a file tracking design for tertiary institutions", File Tracking System, no. 2013.
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## X.INPUTS DESIGN AND OUTPUTS DESIGN

### 1. Screen Shots for Admin



The screenshot shows an "Admin Login" form. It has a title "Admin Login" in blue. Below the title, there are two input fields: "Username:" and "Password:". Each field has a corresponding text input box. Below the input boxes, there are two buttons: a green "Login" button and a red "Cancel" button.



The screenshot shows the "Admin Dashboard". At the top left is the title "Admin Dashboard" and at the top right are links for "Settings" and "Logout". Below the title is a navigation bar with tabs for "Department", "Designation", "Division", "FileTypeMaster", "Categories", "Product", "Resume", and "Company Details". Underneath the navigation bar is a sub-menu with "settings", "users", "categories", "HeaderImage", and "templates". The main content area is divided into several sections:

- Department Master:** A form with a "Department" input field.
- Designation Master:** A form with a "Designation" input field.
- FileType Master:** A form with a "FileType Master" input field.
- Division Master:** A form with a "Division" input field.
- Question:** A form with a "View Question" input field.

In the center of the dashboard, there is a "Department Master" modal form with a "Department Name:" label and an "Enter Department" input field, with "Submit" and "Cancel" buttons.

At the bottom, there is a table with the following data:

Edit	Delete	DepartmentName
Edit	Delete	Engineering Department
Edit	Delete	Mechanical Engineering Department
Edit	Delete	Electrical Engineering Department
Edit	Delete	Accounts Department
Edit	Delete	Medical Department
Edit	Delete	Safety Department



### 2. Screen Shots For User

Registration

FullName  
Enter FullName

Department Type  
Please Select

Department Position  
Enter Department Position

EmailID  
Enter Department Position

Mobile No  
Enter Department Position

Gender  
 Male  Female

Username  
Enter Username

Password  
Enter Password

Login

Username  
Enter Username

Password  
Enter Password



File Tracking System Home Logout

MAIN NAVIGATION

- Accounts u

File Name:

File Sender:

File Type:

Send to which department:

File Upload:  No file chosen

Delete	File Name	File Type	Send To Which Department	File Sender	File Image	File Date	File Status
<input type="button" value="Delete"/>	Employee Profile Details	Confidential	Safety Department	Accounts Department	nophotoavailable.gif	03-03-2022 18:29:59	Completed
<input type="button" value="Delete"/>	Retired Pension Files	General	Electrical Engineering Department	Accounts Department	588159be-e02a-45c7-8ee8-3ea95d7014ab.xlsx	14-03-2022 21:00:51	Pending

File Tracking System Home Logout

MAIN NAVIGATION

- Electrical u

Delete	File Status	File Name	File Type	File Sender	File Image	File Date	File Status
<input type="button" value="Delete"/>	<input type="button" value="Completed"/>	Retired Pension Files	General	Accounts Department	588159be-e02a-45c7-8ee8-3ea95d7014ab.xlsx	14-03-2022 21:00:51	Pending

javascript:\_\_doPostBack('ctl00\$CTPMain\$gridelectrical\$ctl02\$btnfilestatus','')





Delete	FileName	FileType	filesender	sendtowhichdepartment	FileImage	FileDate	FileStatus
Delete	Employee Profile Details	Confidential	Accounts Department	Safety Department	nophotoavailable.gif	03-03-2022 18:29:59	Completed
Delete	Employee Medical Reports	General	Medical Department	Safety Department	nophotoavailable.gif	03-03-2022 19:25:49	Pending
Delete	Employees Salary Details	General	Engineering Department	Mechanical Engineering Department	4a3e013a-9417-4dd4-bc62-3958ec632b4c.config	04-03-2022 11:39:41	Completed
Delete	Employees Details	General	Mechanical Engineering Department	Accounts Department	e20099c7-e6c7-4265-ac28-2231beae431.config	04-03-2022 12:57:10	Completed
Delete	Retired Pension Files	General	Accounts Department	Electrical Engineering Department	588159be-e02a-45c7-8ee8-3ea95d7014ab.xlsx	14-03-2022 21:00:51	Pending