

GLA UNIVERSITY, MATHURA



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**REPORT OF PROJECT**  
**RECORD MANAGER**

TEAM MEMBERS:-

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## **Abstract**

Over the years the manual teacher's record management has been carried across most educational institutions all over India. To overcome the problems of manual record management, We have developed a “web-based Record Holder”. Record Manager is based on a web server, which can be implemented on any computer. This project is aimed at developing a “Record Manager” that is of importance to either an educational institution or a college. As it will provide ideal support for all the actor's i.e. Teachers, Admin, departments for better management when providing the facility to submit records of teacher's documents. In this application, Node JS and MySQL are used as back-end design, and HTML, CSS, and JavaScript are used as front-end tools. It helps teachers and departments to maintain their records on a website without any manual paper-based work. The Admin and department can directly have the teacher's collection of all their documents through this website.

## 1. Introduction

### Aim Of Project:-

The purpose of this document includes an overview of the “**RECORD MANAGER**” web application, detailed information about the requirements including functional requirements, interface requirements, non-functional requirements, and additional constraints of the system. This Software Requirement Specification will provide a complete description of all the functions and specifications. This document will let know the reader about every detail of our product like its functionality, uses, problems, etc.

### Definition

- **Login**: It allows the admin, department, and teachers to access the website as per their requirements.
- **Forgot password**: It allows admin, department, and teachers to change their password if they have forgotten it.
- **Generate report**: It allows the admin and department to display the report of the teacher.
- **Dashboard**: It provides a GUI for admin, department, and teachers to perform their corresponding tasks.

### Acronyms and abbreviations

- **Admin**: A person who will be assigning departments with a unique id.
- **Department**: A Person who will add teachers and provide them with a unique id so that teachers may have their unique account to store their documents.
- **Teacher**: A person who will be storing his/her documents.

### References

Software Engineering 3rd and 4th edition, By Roger S Pressman, Tata McGraw-Hill.

## **The Overall Description**

### **Product Perspective**

It will provide ideal support for all the actors i.e. Admin, Department, and Teachers for better management in storing their documents and also in getting a permanent copy of these documents.

### **Product Function**

The product developed will provide easy access and management to Users and Admin respectively.

The major functions of the system are:

#### **• Functionality of Admin Module**

##### **➤ Department Details**

Display the list of all departments with their details, provides the facility to modify the list of departments.

##### **➤ Teacher's Details**

Display the list of all teachers with their details of records.

##### **➤ Search**

Display the list of all departments and teachers searched through various search filters (project, conference, books, etc).

##### **➤ Generate Report**

Generate the report of teachers and departments according to their given criteria (projects, conference, books, etc).

#### **• Functionality of Departmental User**

##### **➤ Teacher's Details**

Display the list of all teachers with their details of records, provides the facility to modify the list of teachers.

##### **➤ Search**

Display the list of all teachers searched through various search filters (project, conference, books, etc).

##### **➤ Generate Report**

Generate the report of teachers according to their given criteria (projects, conference, books, etc).

- **Functionality of Teachers**

- **View**

Teachers can view their records like conferences, projects, books, etc.

- **Add**

Teachers can add their records like conferences, projects, books, etc.

- **Update**

Teachers can update their records like conferences, projects, books, etc.

- **Delete**

Teachers can delete their records like conferences, projects, books, etc.

## **User Characteristics**

- **Admin**-Admin is superior to all other users. Admin can add departments and generate the report of the records maintained by teachers.

- **Department**-They have the authority to add or remove the teachers. They can also generate the report of all the records maintained by the teacher and will send the same to the superior authority i.e., admin.

- **Teacher**- They will maintain their records like research papers, conferences, and many more to make their report submission task easier

## **Technologies Used**

- **Frontend:** -HTML5, CSS3, JAVASCRIPT
- **Backend:** -NodeJS, MySQL Server 8.0

## **Minimum Requirements**

### **• Server Side:**

#### **• Hardware Requirement:**

Processor : Intel core i3 or onwards

RAM : 4GB

HDD : 10GB (recommended)

#### **• Software Requirement:**

OS : Window 8 or Window 10

Front end : Microsoft Visual Studio 2010+

Back end : MySql Server 2008

### **• Client Side:**

#### **• Hardware Requirement:**

Processor : Intel Core i3 or onwards

RAM : 1GB

HDD : 2GB(recommended)

Network Interface Card

#### **• Software Requirement:**

Browser : Internet Explorer, Mozilla Firefox 46+, Google Chrome.

## **. Specific Requirements**

### **Functional Requirements**

Admin is an authorized person to Access the Complete system.

The Entire project is going to develop into three modules:

- One is the **Admin module** where the admin can
  - Register and login.
  - Generate the report of teachers.
  - View teachers and departments list.
  - Modify the departments list.
  - Search the records of the registered teachers.
  - Logout
  
- The second is the **Department module** where the department can:
  - Login
  - Generate the report of teachers.
  - View and modify the teachers list.
  - Search the records of the registered teachers.
  - Logout
  
- The third is the **Teacher module** where a teacher can:
  - Login
  - Edit profile.
  - Manage (view, add, update, delete) their record.
  - Logout

#### ☐ **Admin Login**

The system should allow the Admin to log in under a secure system by providing their valid Username and Password.

## ☐ **Home Page Overview**

The Home page of this System consists of the Login Function, Registration Function.

## **Non-functional Requirements :-)**

### **AVAILABILITY**

The availability of this website is up to the Internet connection of the client. Since this is a client-server-related website shall be attainable all the time. The user should have an account to enter into the system; if a user does not have an account then the user can only see the information which will be displayed on the homepage of the website.

### **SECURITY**

The authorization mechanism of the system will block the unwanted attempts to the server and also let the system decide on which privileges may the user have. The system has different types of users so there are different levels of authorization.

### **RELIABILITY**

A backup file is maintained so that in case of a system crash, the data will not be affected.

### **PORTABILITY**

The system is developed using HTML, CSS, JavaScript, react for developing responsive web-based applications that can be accessed by any OS.

### **MAINTAINABILITY**

This website will follow the modular structure so it will be easy to maintain.



## **Purpose**

The purpose of the SDS document includes the software architecture and design of “Doc Hub” in detail. It describes the design of the website fully enough to allow for software development to proceed with an understanding of what is to be built and how it is expected to be built. Moreover, the document facilitates communication and understanding of the system by providing several views of the system design.

## **Scope**

- The scope of this project majorly focuses on organizations of the world.
- Initially, the project is intended to work for an organization and later on can be used by other organizations of the world.
- The system can handle large volumes of data(provided large database supported).

THANK-YOU!