## **Report**

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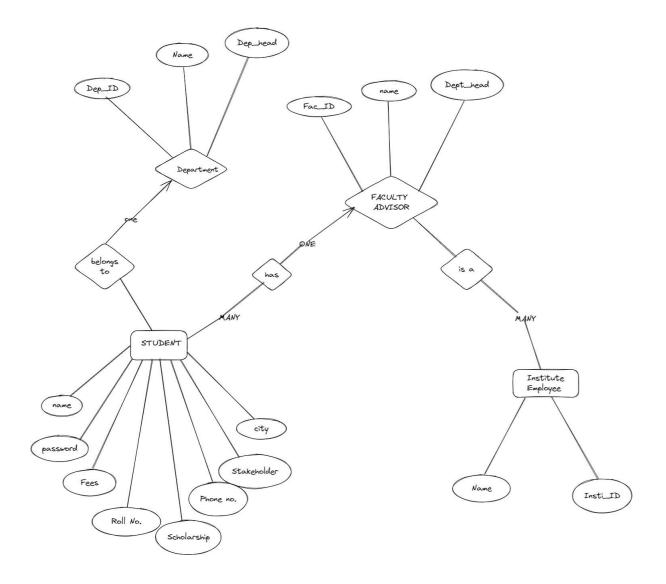
**Topic:** ERP Website Project Report

Welcome to the lab report on the development of an ERP (Enterprise Resource Planning) based system. In this report, we will discuss the process of designing and developing an ERP system that helps organizations manage their students and staff's operations more efficiently. The main objective of this project was to develop an integrated system that provides real-time data and insights to all stakeholders, including employees, staffs, and student. This report will provide a detailed overview of the project's scope, methodology, implementation, and testing procedures. Additionally, we will discuss the challenges faced during the development process and the lessons learned from this project. The report concludes with recommendations for future improvements and enhancements to the ERP system.

- 1.> In this ERP System I have divided the system into administrative and student's part.
- 2.> For this I have made a login and register page where student as well as the institute employee can register them self.
- 3.> When the student login into the website using their credentials, they will reach their ERP home page.
- 4.> The home ERP page will contain five sections, namely, Students, Employee, Administrative section, Scholarship, Fees. But the student has to keep in mind that they have to use only the students section amongst all of the above mentioned sections. Consecutively, the employee section and the administrative section have been coloured red, so the student can themselves refrain from opening the section.
- 5.> The students section further contain two sections, (i) Your Academic Section, (ii) Time table.
- 6.> Your Academic Information further contains the student's Roll No., Name, Biodata which contains student's profile in it, the performance of the student in all the semesters. With further ado, let's explain all the sections in the Academic Information as follows:
  - (i) The roll number is a unique identifier assigned to each student. This roll number is generated by ERP when the student registered in the ERP. Also, it helps in tracking the academic progress of the student throughout their academic journey.
  - (ii) The name of the student is an important piece of information that should be included in the student section. The name should be entered accurately, as it will be used for all official purposes in the ERP, be it the Scholarship section, Fees section.
  - (iii) The biodata of the student includes personal information such as date of birth, gender, contact information, parental information, emergency information, permanent address.
  - (iv) The performance of the student in various academic and extracurricular activities should be recorded in the ERP system. This includes grades of the student, attendance throughout the whole semester, participation in sports and cultural events, and any disciplinary actions taken by the institute against the student.
  - (v) The registration card is an important document that contains information about the student's course registration, semester-wise performance, their semester grades and

- points, their overall grades and points and their attendance. The ERP system generate the registration card automatically after the result of the student is feeded in it and update it regularly.
- (vi) Each student has a faculty advisor assigned to them. The faculty advisor is responsible for guiding the student in their academic journey and helping them with any academic or personal issues they may face. This ERP system maintain a record of the faculty advisor assigned to each student.
- 7.> The faculty or admin of an ERP system plays a vital role in managing and maintaining the personal information of all employees and students in the system. It is important for the faculty/admin to exercise caution and discretion when accessing and managing this data. The faculty/admin of the ERP system also has an access to search and delete a particular student data. Let's explain all these above-mentioned points:
- (i) Access to Personal Information: The faculty/admin of the ERP system typically has access to the personal information of all employees under their purview. This information includes the employee's name, address, contact information, social security number, and other sensitive information. The faculty/admin must ensure that this information is secure and protected from unauthorized access.
- (ii) Search and Delete Functionality: The faculty/admin of the ERP system may also have access to search and delete a particular student's data. This functionality can be useful in cases where a student has withdrawn from the institution or if their data needs to be updated. However, it is important to exercise caution when using this functionality. The faculty/admin must ensure that they have the proper authorization to delete a student's data and that they are not violating any privacy laws or regulations.

The faculty/admin of the ERP system has a significant responsibility in managing and protecting the personal information of employees and students. It is important to exercise caution and discretion when accessing and managing this information and to ensure compliance with all privacy laws and regulations. By implementing appropriate security measures and following best practices, the faculty/admin can ensure the confidentiality and integrity of the personal information in the ERP system.



## **TECHNICAL ASPECTS USED IN THIS PROJECT**

- 1.> React JS is used to build the front-end of the website.
- 2.> The designing and styling of the following pages are done in sequential manner:
  - Academic info
  - Add New Entries
  - Get Student
  - Home
  - Login
  - Register
  - Search Student
  - User Academic Info
  - User Profile
- 3.> React-Router-Dom, React-Router libraries are used to link the pages.
- 4.> The above functionalities are included in the client-side of the website.

- 5.> For the server-side Node JS frame is used to create the backend of my website and connect the MySQL server to our host computer.
- 6.> When a user registers their info on the ERP it gets stored in a table named user details in DBMS Database and we can access the whole data of the students from there.
- 7.> Below is the attached screenshot of user details table.

