

EMPLOYEE MANAGEMENT SYSTEM

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ABSTRACT

The employees play an important and crucial role in the development of an organization. Hence they will be known as "Pillars of an Organization". Hence the employee management is essential for the success of an organization. The Employee Management System makes it easier for the organization to manage their employees easily and quickly. Not only for the organization but also for the employees to view and update their professional activities in a faster and an easier manner. This application "Employee Management System" ensures the tasks of managing the employees and their activities easily.

IndexTerms–Employee Management System, Employee, Admin, Leaves, FDP's, Workshops, Publications, Workload, DBMS, PHP, JAVASCRIPT, HTML, CSS

1. INTRODUCTION

The objective of this 'Employee Management System' is that in this world of growing technologies everything has been computerized. With large number of work opportunities the Human workforce has increased. Thus there is a need of a system which can handle the data of such a large number of Employees. This project simplifies the task of maintaining records of employees because of its user friendly nature. Not only for maintaining the records of the employees but also this system provides various features such as Employee leave management, their workload data management and also it generates various types of reports such as FDP, Workshop, Publication, leave reports, workload reports for the better management of the employees of an organization. This project is to provide a comprehensive approach towards the management of employee information. This will be done by designing and implementing an Employee management system that will bring up a major paradigm shift in the way that employee information is handled.

The objectives of this system include:

- Design of a web based Employee management system to fulfill requirements such as workload management, leave management, Adding and Deleting of Employees and various report generations to assist the organization to know about their employees better.
- Well-designed database to store employee professional and personnel information.
- A user friendly front-end for the user to interact with the system.

2. PROBLEM STATEMENT

Managing of an employee by manual handling of their information in records challenging task for an organization. This challenging task because, there is a huge paper work, this increases the page consuming and retrieve the particular employee is time consuming task. In small organizations the employees are suffering to know their personal information such as leave status or number of leaves applied by them and number of leaves are available to them and also to update their personal profile or view their profile or to check their profile they need to go for an authorized person. The above mentioned problems can be tackled by designing and implementing a web based Employee management system. This system will maintain employee personal and professional information in a database by providing privacy and security. The project is aimed at setting up employee management system about the status of the employee, the educational background and the work experience in order to help monitor the performance and achievements of the employee through a password protected system.

3. OBJECTIVE

The objective of this system is that to make the tasks of managing the employees of an organizations in an easier and effective manner. The major tasks that are performed by the organizations to manage their employees are profile management; leave management, their workload management etc. This system is designed to make all the above mentioned tasks quickly and easily. This system maintains all the data related to the employees in a database safely and securely. The retrieval of this data is given based on the axis level that is either the employee or the admin. This system also generates various types of reports such as FDP, Workshops, Publications, workload and various types of leave reports so as to make the management of the employees easily. This is the main objective of this system.

4. LITERATURE SURVEY

Normally organizations manage their employees by maintaining their information in the handwritten records in the registers or on papers. Whenever the data is maintained by handwritten records it will be a space consuming to store them, also preserving them from damage is a hectic task and it is also a time consuming because to search for the details of an employee, their leave details etc. takes hours together. If the employees wanted to view or update their profiles they need approval from higher authorities or they need to go to the administrators. Whenever an employee wanted to apply a leave they need to fill the form and then the form needs to be forwarded to the higher authority and after that if the final authority approves or cancels the leave then the employee need to go to the authority to see whether the leave applied by them is approved or not, this is a time consuming task for the employees as well as the organization. As stated above it is a complex task for the organizations to maintain their employees in this manner.

Disadvantages:

- Time consuming.
- Hard to maintain, preserve and search.
- Retrieving the records is complex and hectic.

5. PROPOSED SYSTEM

The proposed system is developed to eliminate all the drawbacks in the existing system such as time consuming, retrieving the data is complex etc. The maintaining and managing the employees of the organization can be done easily and quickly by this system. As this application is an user-friendly which provides facilities for profile management, performance analysis include various report generations, academic analysis and attendance analysis including leave management of the employee.

Advantages of this system over existing system are:

- Easy and faster retrieval of data.
- Easy to maintain and reduce paper work.
- Leave management and Profile management becomes easy.
- Employee and their activity management become easy.

6. MODULES

There are basically two modules in this system. They are

- Employee
- Admin
- Employee Module consists of below sub-modules

➤ **My Profile**

➤ **Update Profile**

- Change Password
- Add FDP's

- Add Publications
- Add Workshops
- **Apply Leave**
 - Leave Status
 - Leave Application
- **Reports**
 - FDP reports
 - Workshop Reports
 - Publication Reports
- **Academics related to students**
 - Student Profile
 - Internal and External Marks
 - Admin Module consists of the following sub-modules
- **Add Employee**
 - Application to add employee
- **View Employees**
 - To view all the employees in an organization
- **Assign Subject**
 - Application to assign subject
 - Application to assign other hours(like counseling , extra hours etc.)
- **Workload Reports**
 - Employee workload
 - Class wise workload
- **Employee Leave**
 - Leave Reports
 - Employee Leave Reports
 - Approved Leave Reports
 - Cancelled Leave Reports
 - Add CCL
 - Add CL
 - Add EL
 - Refresh CL and CCL
- **Reports**
 - FDP Reports
 - Workshop Reports
 - Publication Reports
- **Academics**
 - Student Profile
 - Internal Marks
 - External Marks
 - Placements

7. ARCHITECTURE OF THE SYSTEM

The architecture of the system can be viewed from two angles that is from the employee angle. The architectures are as follows

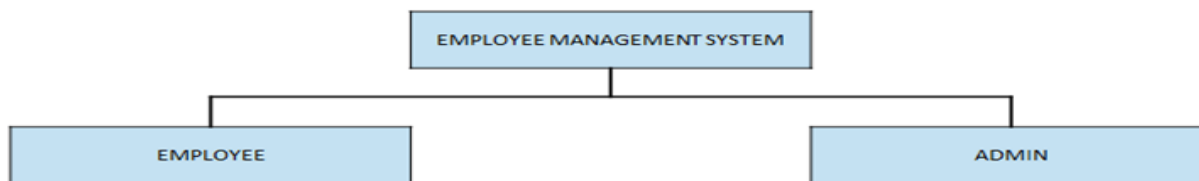


Fig 1: Basic Architecture

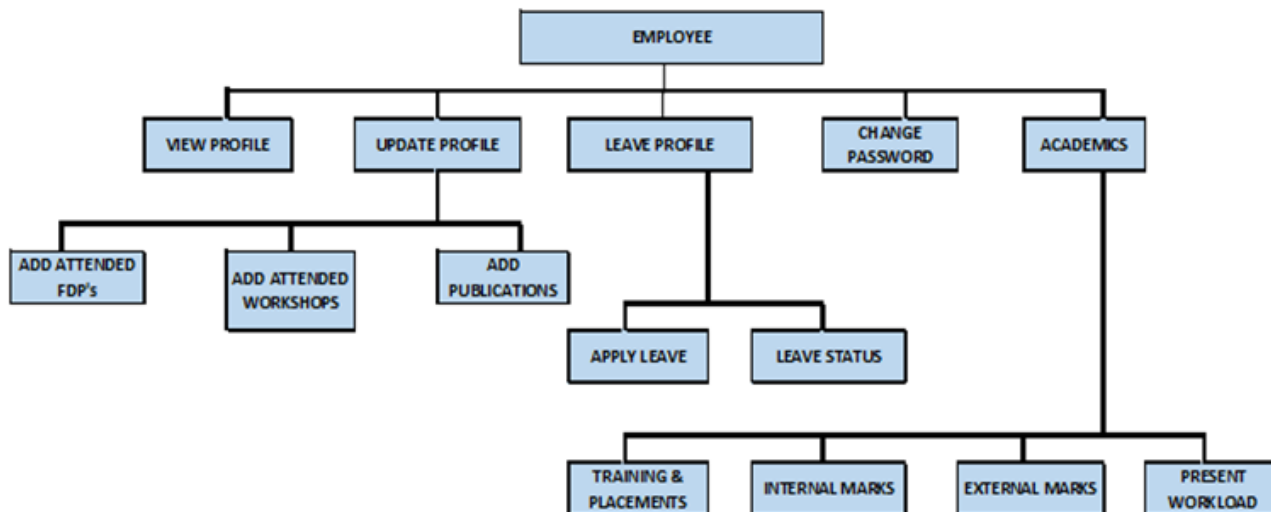


Fig 2: Employee Architecture

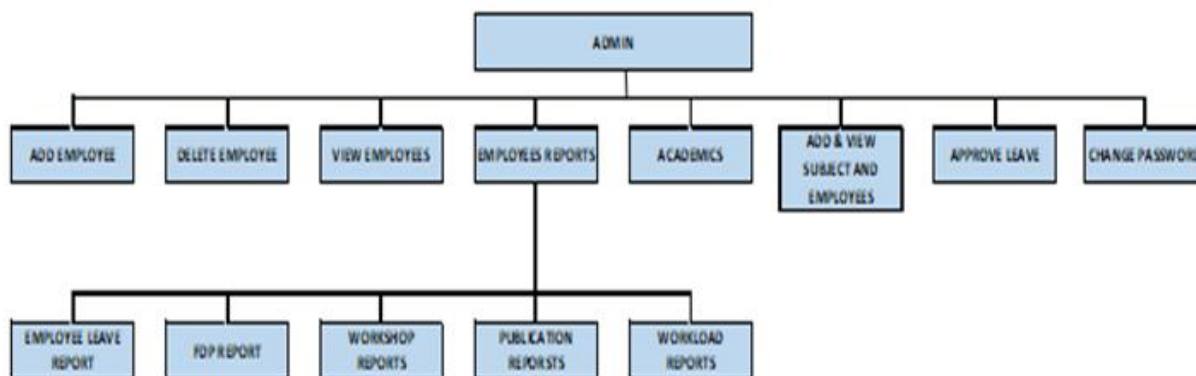


Fig 3: Admin Architecture

8. DATABASE DESIGN

Database designing is one of the major tasks in the whole designing of the system. The designing of the database for the employee management system involves various tasks such as creation of the tables with the appropriate primary keys and the relationships that exist between various tables. In this system there are various tables such as the employee table that stores the details of the employees, employee leave table that stores all the details of the leaves applied by the employees, FDP’s table which stores all details of FDP’s done by the employees, Publications table stores all the particulars about the publications done by the employees and also the workload and workshop tables which are used to store the workload and workshop details of the employees. These are the main tables in the database. The following is the ER diagram that shows the architecture of the database:

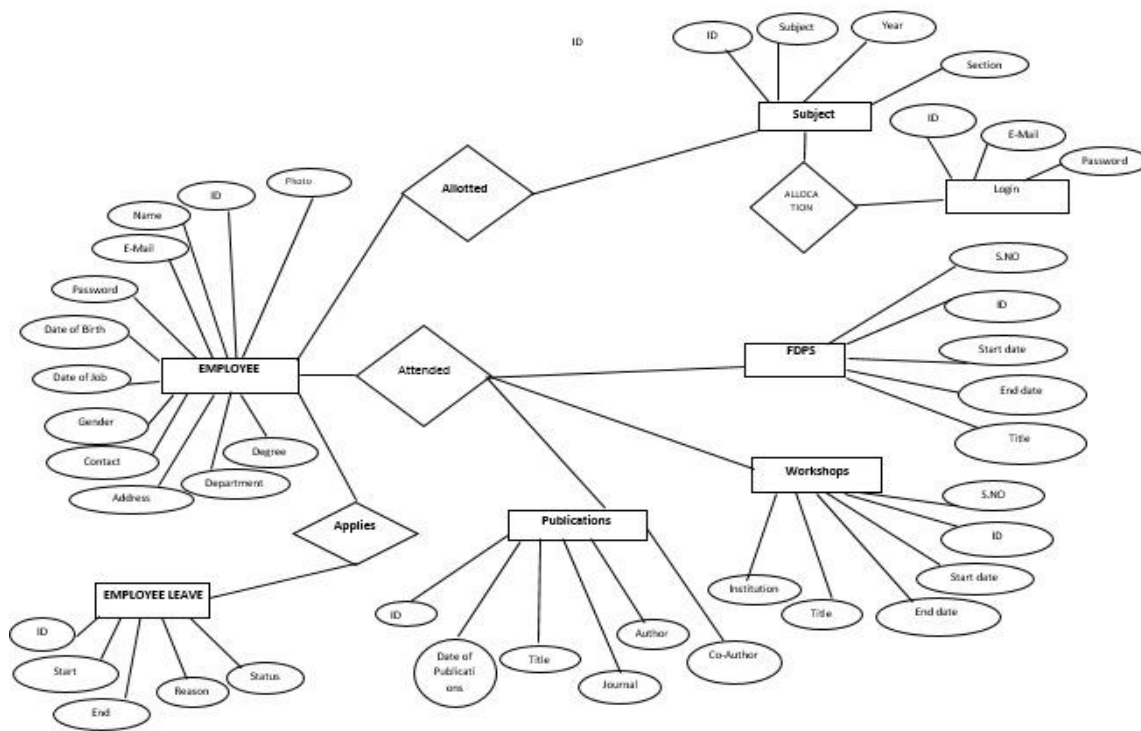


Fig 4: ER Diagram for Employee Management System

9. EXPERIMENTAL RESULTS

The below are some of the screenshots of the system that show about the various features and the various reports that are generated in this system.

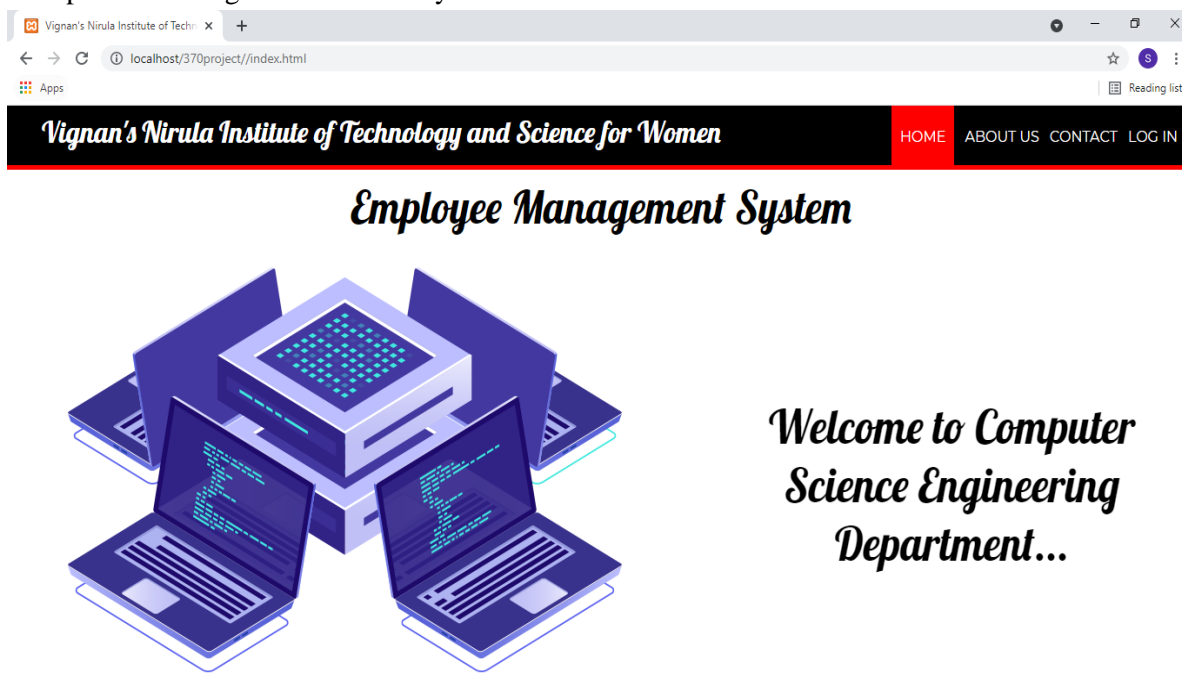


Fig 5: Home Page

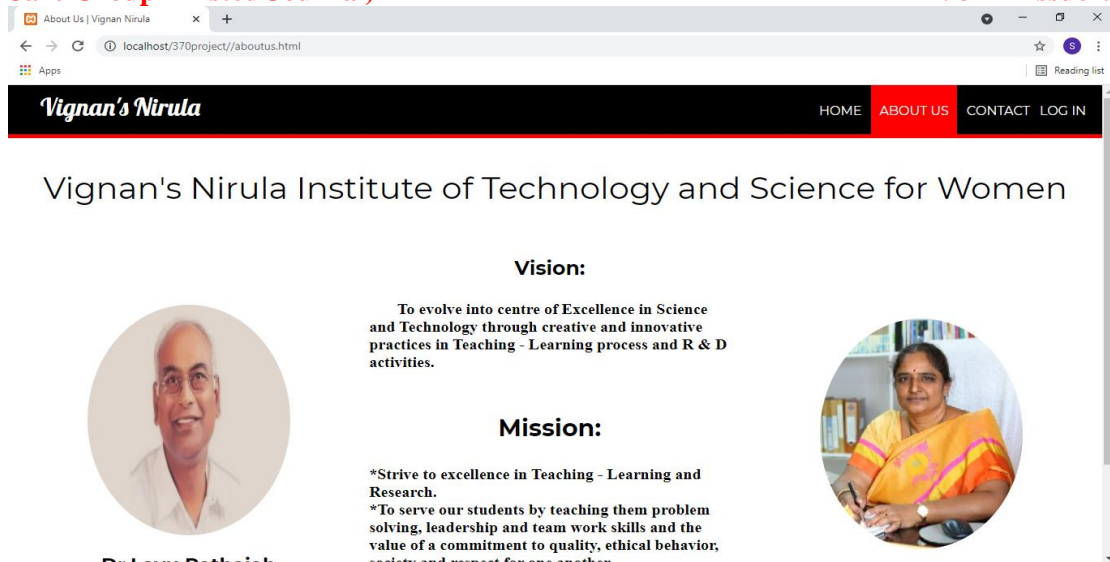


Fig 6: About Us page

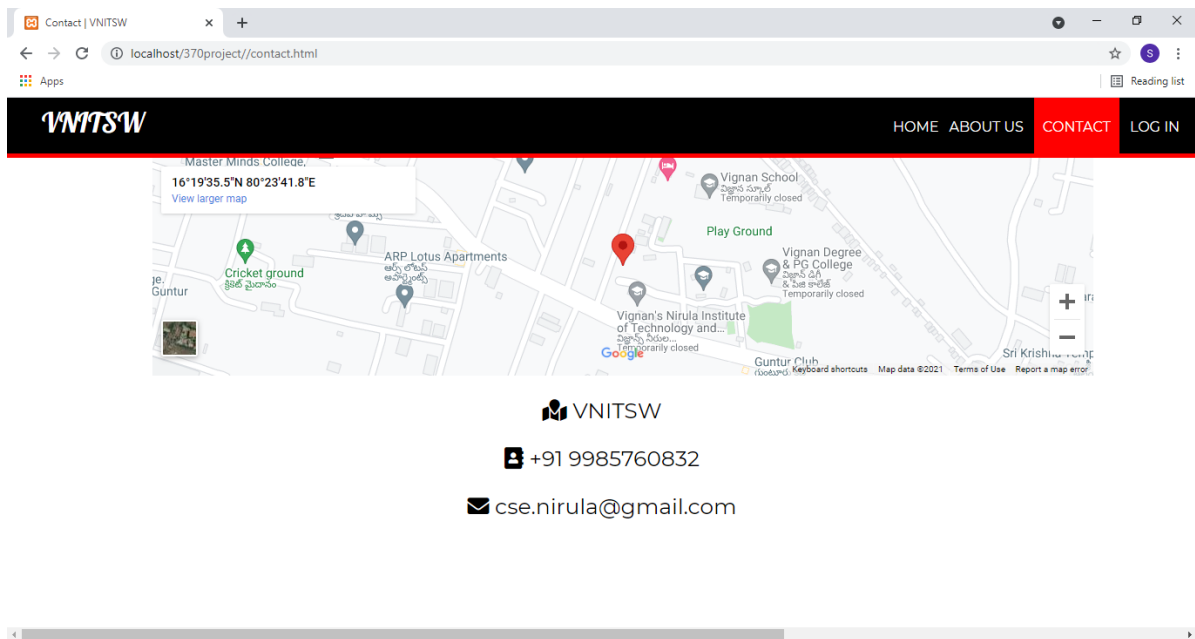


Fig 7: Contact Us Page

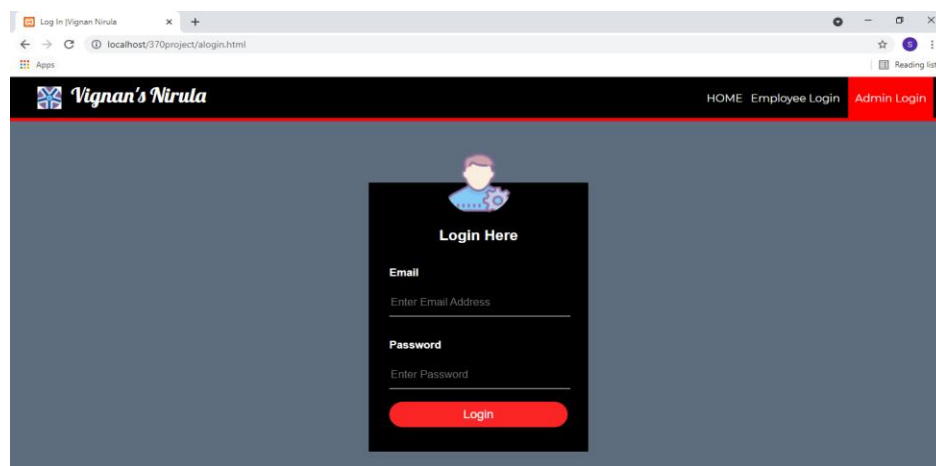


Fig 8: Admin Login Page

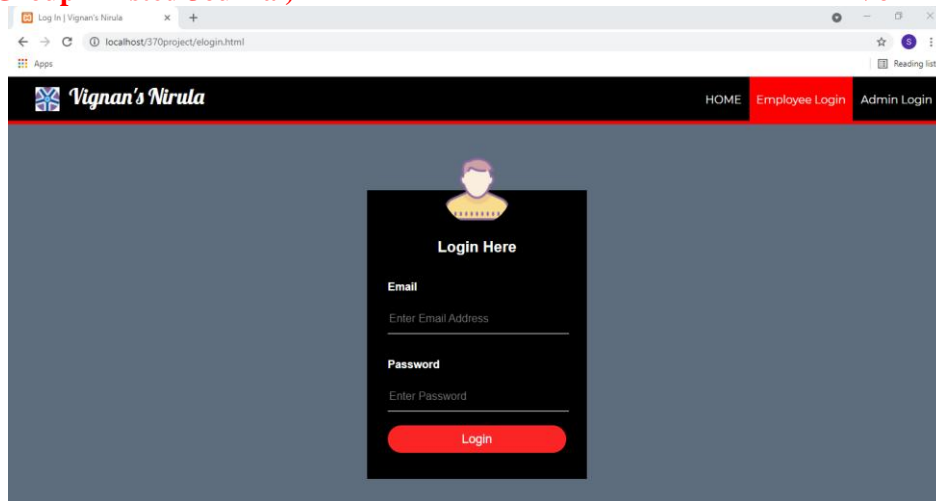


Fig 9: Employee Login Page

Id	Name	Subject	Hours
17	Dr.M.Vasumathi	Machine Learning	6
38	Y.Rajesh	Artificial Neural Networks	6
239	K.Chaitanya	Distributed Systems	6

Fig 10: Workload report of a particular class

Token	Start Date	End Date	Total Days	Reason	Type	Status
336	2021-06-12	2021-06-13	1	health	CL	Approved
337	2021-06-11	2021-06-12	1	Sick Leave	EL	Approved
338	2021-06-11	2021-06-12	1	Sick Leave	EL	Approved
339	2021-06-11	2021-06-11	0	hu	CL	Approved
340	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
341	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
342	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
343	2021-06-11	2021-06-12	1	Sick Leave	EL	Approved
344	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
345	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
346	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
347	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved
748	2021-06-11	2021-06-12	1	Sick Leave	CL	Approved

Fig 11: Leave Report of Particular Employee

ID	Name	Designation	Title	Conference	Month	Year
139	Dr.V.Sujatha	Assistant Professor	Data Outsourcing Based on Secure Association Rule Mining Process	IJSIA ISSN:1738-9976	Jan	2015
139	Dr.V.Sujatha	Assistant Professor	Fundamentals of Molecular Biology for Gene Analysis	IOSR Journal of Computer Engineering (IOSR-JCE)	Jan	2016
139	Dr.V.Sujatha	Assistant Professor	Heterogeneous context mechanism for the Performance of data analysis of Big Data	INTERNATIONAL JOURNAL OF MERGING TECHNOLOGY AND ADVANCED RESEARCH IN COMPUTING	Jan	2016
139	Dr.V.Sujatha	Assistant Professor	Hybridized Imputation Technique For Micro-Array Missing Data Estimation By Dimensionality Reduction	Journal Of Advanced Research In Dynamical And Control systems	Jan	2018
139	Dr.V.Sujatha	Assistant Professor	Modelling Of Missing Data Imputation Methods On Gene Expression Data	PONTE,International Journal Of ScienceAnd Research	Jan	2017
139	Dr.V.Sujatha	Assistant Professor	Prediction of Breast Cancer Using a Supervised Learning Approach	IJRRRA	Apr	2018
139	Dr.V.Sujatha	Assistant Professor	Variable Selection In Functional Genomics Using Genetic Algorithm Based Fetaure Selection Model-Emp	International Journal Of Engineering And Applied Sciences,MEDWELL JOURNALS	Jan	2018

Fig 12: Publication Report of particular Employee

Emp. ID	Picture	Name	Email	Birthday	Joinning	Gender	Contact	Address	Department	Degree	Options
7		J.Dayanika	dayanika@gmail.com	1989-01-09	2019-06-17	Female	6309320371	Guntur	CSE	M.Tech	Edit Delete
16		N.Pavani	pavani.valeti@gmail.com	1982-07-22	2018-11-26	Male	7799166666	Guntur	CSE	M.Tech	Edit Delete
17		Dr.M.Vasumathi	mvasudeviravinuthala@gmail.com	1981-03-15	2010-03-01	Female	9490729690	Guntur	CSE	Ph.D	Edit Delete
20		K.Lavanya	sailavanya45@gmail.com	1989-10-30	1989-10-30	Female	8179721355	Guntur	CSE	M.Tech	Edit Delete
34		K.V.S.Rama Krishna	ksai.mb@gmail.com	1976-10-16	2012-12-17	Male	9963903911	Guntur	CSE	M.Tech	Edit Delete
38		Y.Rajesh	rajeshyamparala@gmail.com	1986-08-03	2013-05-15	Male	9966292736	Guntur	CSE	M.Tech	Edit Delete
67		N.Harika	narsharika4@gmail.com	1993-05-	2019-05-	Female	9642355538	Guntur	CSE	M.Tech	Edit Delete

Fig 13: Page that shows all the employees of an organization

10.CONCLUSION

This Project Employee Management System makes the tasks of managing the employees of an organization easier and quicker. This project provides various functionalities such as Leave Management that is the employees can apply leave, check their leave status, various reports of leave can be generated and also the admin can approve or cancel the leave, the profile management of the employees that is view and update their profile, their workload management such as viewing their workload, add or delete or update their workload and to generate various types of workload reports and various types of reports such as FDP, Workshops and Publication can be generated. By using this application the organization can easily and quickly manage their employees and also as this application is user-friendly it is easy to understand and use.

11.FUTURE ENHANCEMENTS

This project has a very vast scope in future As this project is dealing with only major aspects that an employee management system has. This can be extended by adding the salary details of the employee, expected salary for this month, daily workload of employee, also to view their student profile, their student academics, daily time tables can be added and so on.

12. REFERENCES

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