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Paper Authors

Mrs.M.Vijaya Sudha<sup>1</sup>, Vannemreddy Ishwarya<sup>2</sup>, Alluri Phani Reshma<sup>3</sup>, Reddi Ramya<sup>4</sup>, Kesari Jagadeeswari<sup>5</sup>



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## EMPLOYEE MANAGEMENT SYSTEM

Mrs.M.Vijaya Sudha<sup>1</sup>,Vannemreddy Ishwarya<sup>2</sup>, Alluri Phani Reshma<sup>3</sup>, Reddi Ramya<sup>4</sup>, Kesari Jagadeeswari<sup>5</sup>

<sup>1</sup>Assistant Professor, Dept. of CSE, <sup>2</sup>17ME1A05B8, <sup>3</sup>17ME1A0562, <sup>4</sup>18ME5A0504, <sup>5</sup>17ME1A0587

Ramachandra College of Engineering, A.P., India

### ABSTRACT:

The main conceptual idea of the Employee Management System is based on a JAVA application. It is a distributed application, developed to maintain the details of the employees. It contains employee's information like employee id, name, age, email, location and so on including project details also. This application stores all the employee's information in a database. In prior days managing employee details was entirely based on manual effort and it is a time-consuming process.

The employee Management System has been proposed to overcome such problems. This helps to store Employee data and access the data whenever required for higher authorities.

### 1.INTRODUCTION

Generally, data mining (sometimes called data or knowledge discovery) is the process of analyzing data from different perspectives and summarizing it into useful information - information that can be used to increase revenue, cuts costs, or both. Data mining software is one of a number of analytical tools for analyzing data. It allows users to analyze data from many different dimensions or angles, categorize it, and summarize the relationships identified. Technically, data mining is the process of finding correlations or patterns among dozens of fields in large relational databases.

While large-scale information technology has been evolving separate transaction and analytical systems, data mining provides the link between the two. Data mining software analyzes relationships and patterns in stored transaction data based on open-ended user queries. Several types of analytical software are available: statistical, machine learning, and neural networks. It's one of the most effective services that are available today. With the help of data mining, one can discover precious information about the customers

and their behavior for a specific set of products and evaluate and analyze, store, mine and load data related to them. An analytical CRM model and strategic business related decisions can be made with the help of data mining as it helps in providing a complete synopsis of customers.

An endless number of organizations have installed data mining projects and it has helped them see their own companies make an unprecedented improvement in their marketing strategies (Campaigns). Data mining is generally used by organizations with a solid customer focus. For its flexible nature as far as applicability is concerned is being used vehemently in applications to foresee crucial data including industry analysis and consumer buying behaviours. Fast paced and prompt access to data along with economic processing techniques have made data mining one of the most suitable services that a company seek.

### 2.RELATED WORK

By using Data mining, we created an application Employee Management System. In our application we included login pages for both employee and admin.

If an employee is new to that organization, we include an registration page for that employee. Our application maintains all the personal details of an employee i.e, employee name, mobile number, email, gender, address including employee project details that means employees current working and previously working project title and project details. Here, employee can able to enter his/her project details and admin can able to make any changes i.e, add, delete and update the project details of the employee. All these details are stored in My SQL.

### **Existing System**

As we know, there exists many Employee Management Systems. Some of them includes information of an employee and some other includes payrolls along with employee details. Existing System takes more Responsive time .

### **Proposed System**

In this project we are trying to manage the employee details and we would like to unite various employee management system into a single system i.e, capable of storing and maintaining the complete information of an employee along with the project details of an Employee. We try to decrease responsive time.

The feasibility of the project is analyzed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. For feasibility analysis, some understanding of the major requirements for the system is essential.

An application is a standalone program that runs directly on the Java platform. A special kind of application known as a

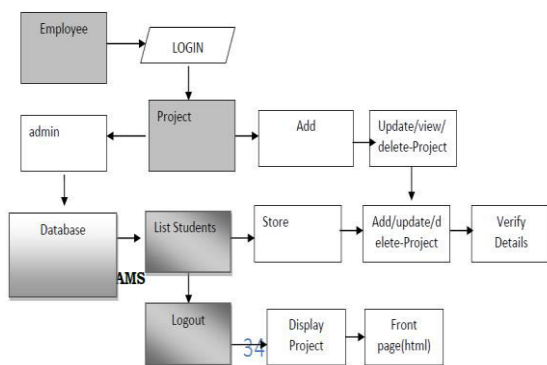
server serves and supports clients on a network. Examples of servers are Web servers, proxy servers, mail servers, and print servers. Another specialized program is a servlet. A servlet can almost be thought of as an applet that runs on the server side. Java Servlets are a popular choice for building interactive web applications, replacing the use of CGI scripts. Servlets are similar to applets in that they are runtime extensions of applications. Instead of working in browsers, though, servlets run within Java Web servers, configuring or tailoring the server. How does the API support all these kinds of programs? It does so with packages of software components that provides a wide range of functionality.

### **3. METHODOLOGY:**

This study is carried out to check the economic impact that the system will have on the organization. The amount of fund that the company can pour into the research and development of the system is limited. The expenditures must be justified. Thus the developed system as well within the budget and this was achieved because most of the technologies used are freely available. Only the customized products had to be purchased.

The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system. The data flow diagram (DFD) is one of the most important modeling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with the system and the information flows in the system. DFD shows how the information moves through the system and how it is modified by a

series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output. DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.



**Figure 1: Architecture**

UML stands for Unified Modelling Language. UML is a standardized general-purpose modelling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group.

Data mining helps marketing companies build models based on historical data to predict who will respond to the new marketing campaigns such as direct mail, online marketing campaign...etc. Through the results, marketers will have appropriate approach to sell profitable products to targeted customers.

Data mining brings a lot of benefits to retail companies in the same way as marketing. Through market basket analysis, a store can have an appropriate production arrangement in a way that customers can buy frequent buying products together with pleasant. In addition, it also helps the retail companies

offer certain discounts for particular products that will attract more customers.

The goal is for UML to become a common language for creating models of object oriented computer software. In its current form UML is comprised of two major components: a Meta-model and a notation. In the future, some form of method or process may also be added to; or associated with, UML. The Unified Modelling Language is a standard language for specifying, Visualization, Constructing and documenting the artifacts of software system, as well as for business modelling and other non-software systems. The UML represents a collection of best engineering practices that have proven successful in the modelling of large and complex systems. The UML is a very important part of developing objects oriented software and the software development process. The UML uses mostly graphical notations to express the design of software projects

### List of Modules

#### Employee:

Employee: In this Module Employee can register and login, can view his/her details and can add project details of employee that supports to administrator which supports to project running on employee user walls so that it helps to every employee to get updated content from administrator

#### Administrator:

In this Module administrator can view employee details without password then admin can view employee details and also administrator can add/view/delete/update details of project can would be supported to give new task to the employee, finally we can conclude in this module is it very helpful for every employee.

With most programming languages, you either compile or interpret a program so

that you can run it on your computer. The Java programming language is unusual in that a program is both compiled and interpreted. With the compiler, first you translate a program into an intermediate language called Java byte codes —the platform-independent codes interpreted by the interpreter on the Java platform. The interpreter parses and runs each Java byte code instruction on the computer.

Compilation happens just once; interpretation occurs each time the program is executed. The following figure illustrates how this works.

#### 4. STUDY OF RESULTS:

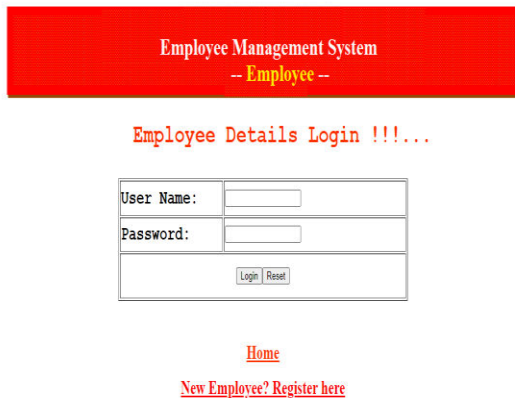


Figure 2: Employee Login page

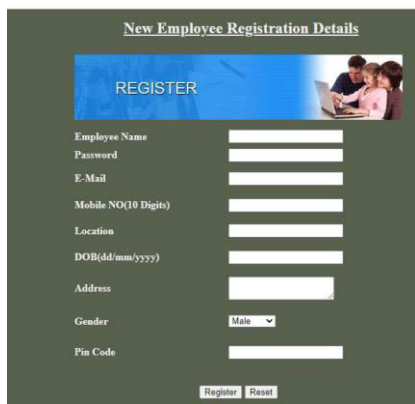


Figure 3: Registration Page



Figure 4. Project page



Figure 5: View My Details

#### 5. CONCLUSION :

We conclude our project Employee management System is distributive application that is to digitize the database of employees in organizations and enabling the administrators to view the personal details of employees and to manage the project details of employees. Admin can assign the new projects to the employee by selecting the employee name. Here, our project was designed and developed using jsp, servlets ,MySQL and Java. This application has been tested



and has been provided successful result, hence this application has been proved to work efficiently.

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