Human Resource Management System

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Chapter 1: Proposal (System Conception)

1. Introduction:

The proposed project "HR Management System" has been developed to overcome the problems faced in the practicing of manual system. This software is built to eliminate and in some cases reduce the hardships faced by the existing system. Moreover this system is designed for particular need of the company to carry out its operations in a smooth and effective manner.

It is a special system for employees in any company in which basic jobs are available for any employee, such as (vacations - leaves – edit info - monthly salary).

2. Objective:

1) Useability and efficiency of employees services.

2) Generate reports of employee leaves or vacation and complaints.

3) To Add the employee salary.

3. Problem Statement:

Overcoming the problems facing the manual system and creating transactions electronically to make it easier for employees and management to communicate between them .

Chapter 2: Requirements Engineering Part

1. Stakeholders:

Actor	Interests
Managing Director	Salary, Job security, Managing vacation request and reports.
Employees	Salary, Job security, Vacation request or reports.
Company Owners	Business operations to run smoothly, Profit.
IT Developer	Create the website, Level of security, Privacy, Data Storage.

2. Strengths and Weakness of the System:

The Strength Of Paper System Is :   Documentation

The Weaknesses Of Paper System Is :

1) Prone to damage: Manual documents can be easily damaged, lost, or stolen.

2) Higher costs: Because we will need more paper, printers, copiers, stationery and other office supplies.

3) Lack of security: Paper is one of the biggest information security risks for companies because printed documents can easily be lost, mishandled, or destroyed while digital data can be encrypted and kept securely in hard disks or electronic devices.

3. Requirement Elicitation:

Questionnaire.

we can't meet the employee in this time cause of corona virus

For easy access to a larger number of employees and for accurate reports and Asking the employee easily than

making and save time also.

Chapter 3: Software Requirements Specification (SRS)

1. Functional Requirements: (Admin)

Functional	Description
Login	Log in using the administrator number and password
Edit info and Change password	The Admin can change password and information in employee or your
Add new employee	The Admin can add a new employee
Accept or reject holiday or leave	The Admin can approve or deny a holidays or leave To the employee with the reason written
Add the salary	The Admin can Add the salary To the employee

1. Functional Requirements: (Employee)

Functional	Description
Login	Log in using the employee number and password
Edit info and Change password	The password and information change or restore
Request holiday or leave	Employees are allowed to request holiday or leave
view the salary	Employees are allowed to view the salary amount

2. Non-Functional Requirements

Usability:

the system is easy to use by the users, we tried to provide easy control interfaces in the design.
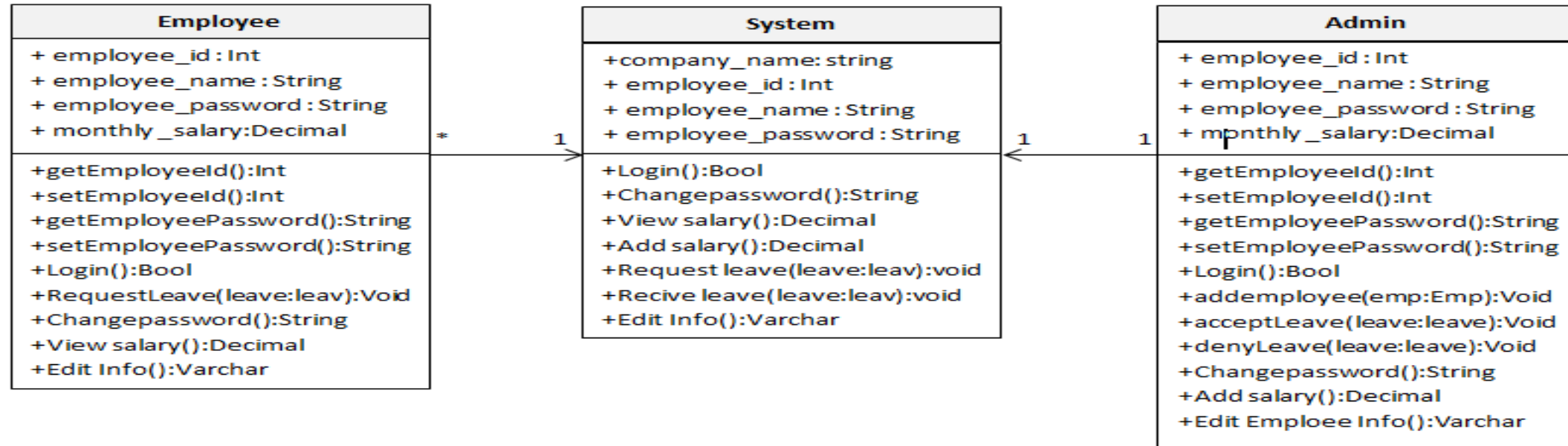
Chapter 4: Software Architecture

It's a three tier Architecture.

• Three-tier architecture is a well-established software application architecture that organizes applications into three logical and physical computing tiers: the presentation tier, or user interface; the application tier, where data is processed; and the data tier, where the data associated with the application is stored and managed.

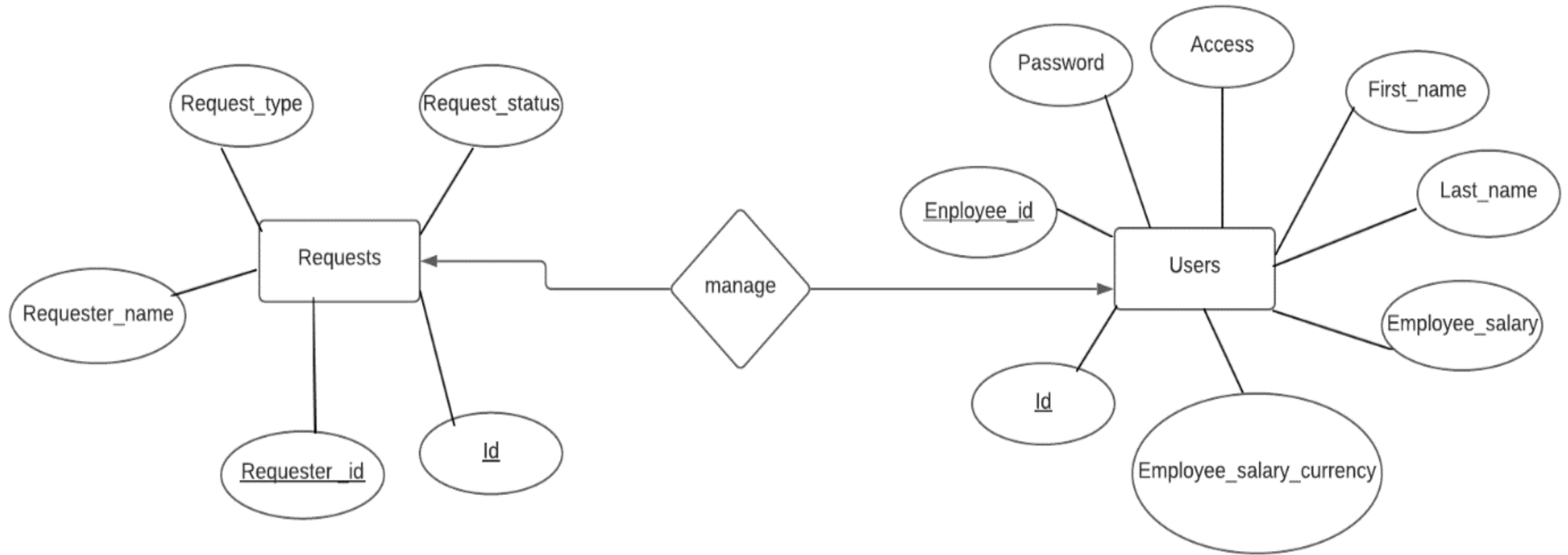• The chief benefit of three-tier architecture is that because each tier runs on its own.

Three-tier application architecture is a modular client-server architecture that consists of a presentation tier, an application tier and a data tier. The data tier stores information, the application tier handles logic and the presentation tier is a graphical user interface (gui) that communicates with the other two tiers. The three tiers are logical, not physical, and may or may not run on the same physical server.

Chapter 5: Detailed Design

1. class diagram…

Employee
+ employee_id : Int
+ employee_name : String
+ employee_password : String
+ monthly _salary:Decimal
+getEmployeeId():Int
+setEmployeeId():Int
+getEmployeePassword():String
+setEmployeePassword():String
+Login():Bool
+RequestLeave(leave:leav):Void
+Changepassword():String
+View salary():Decimal
+Edit Info():Varchar

System
+company_name: string
+ employee_id : Int
+ employee_name : String
+ employee_password : String
+Login():Bool
+Changepassword():String
+View salary():Decimal
+Add salary():Decimal
+Request leave(leave:leav):void
+Recive leave(leave:leav):void
+Edit Info():Varchar

Admin
+ employee_id : Int
+ employee_name : String
+ employee_password : String
+ monthly _salary:Decimal
+getEmployeeId():Int
+setEmployeeId():Int
+getEmployeePassword():String
+setEmployeePassword():String
+Login():Bool
+addemployee(emp:Emp):Void
+acceptLeave(leave:leave):Void
+denyLeave(leave:leave):Void
+Changepassword():String
+Add salary():Decimal
+Edit Emploee Info():Varchar

* 1   1 1

2. Database table…

3. User Interface Design…

HUMAN RESOURCES MANAGEMENT SYSTEM

GET STARTED

HRMS

About Us :

The HR Management system is one of the most important systems that must be available in every company because it will save time and effort to complete some simple transactions. Job description is the completion of some transactions online, the most important of which is 1) Request a leave 2) Changing password 3) Showing the salary and its value for each employee per month 4) Each employee can register with the employee's identification number and password 5) Each employee can edit his personal info.

Contact Us :

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the welcome page of the project its contains about us and contact us and the button of login.

Chapter 7: Testing

1. Functional Test Cases:

Test case number	Test case	Actual Input	Expected Output	Result
1	Testing Login	Employee id : 201710036 password : 12345	Login succeeds and home page presented	pass
2	Testing Login	Employee id : 201720043 password : 12335	Wrong username or password!	pass
3	Testing login by admin	Employee id : 0 password : 12345	Login succeeds and home page presented	pass
4	Testing login by admin	Employee id : 0213 password : 12345	Wrong username or password!	pass
5	Add new employee by admin	Valid employee data	Employee is added	pass

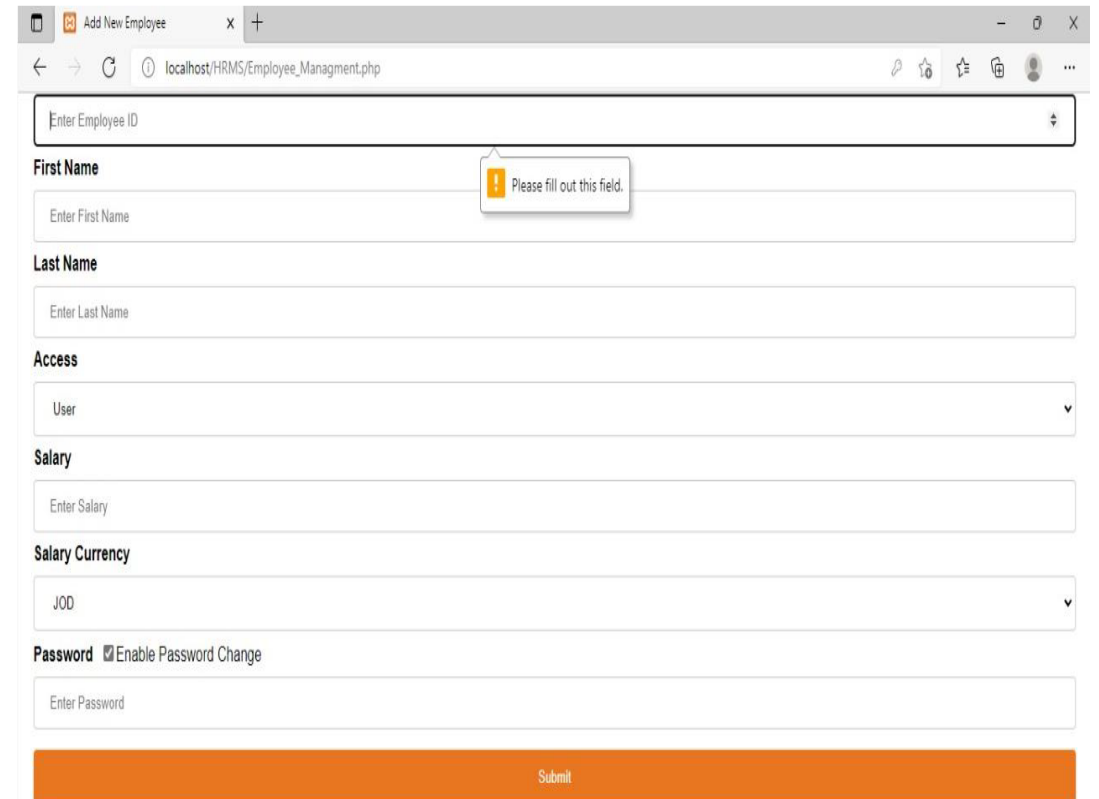|				
6	Add requests for employee by admin	Valid request data	Request is added	pass
7	Editing employee information by admin	Pressing submit button	Employee is editing	Pass
8	Edit personal employee information	Pressing submit button	Employee is editing	pass
9	Approve a leave or vacation employee by admin	Enter valid Id and name and date	Status leave accepted	Pass
10	Deny a leave or vacation of employee by admin	Enter valid Id and name and date	status leave rejected	Pass
11	Change password by admin	Enter valid new password	Password is changed	Pass
12	Apply request by admin	Enter request type and date	Request is applied	pass

2. Sample of Effective Results:

1- log in using invalid employee number and password
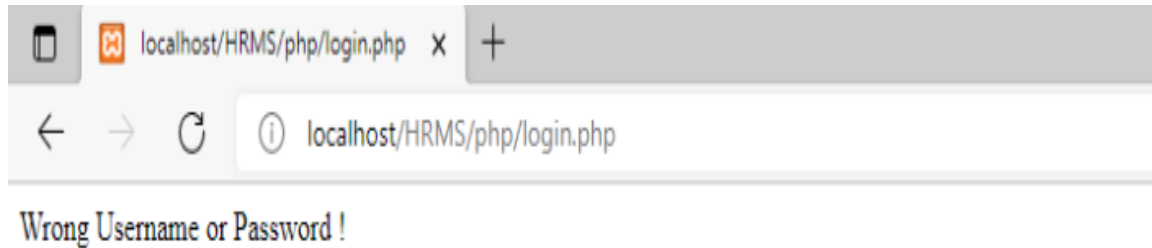
2-The form must be filled out

Chapter 8: Conclusion and Future works

Conclusion:

After reviewing the current study and studying it thoroughly ,The Human Resource Management System is an effective system that could be applied and used in many companies . Accordioning to that the system was analyzed and work on establishing a system that manages human resources according to the foundation of any company.

By the website.1) Manager is able to rely on him to manage and control employee data, as well as to manage attendance and absence records.2) Manager also can manage the records of vacations and financial matters for all employees easily.3) By using the website, the administrator can extract reports by employees and all related information.4) Employee can manage his data easily.

Future work:

1) Develop more sections needed by human resources such as performance assessment and vocational training.

2) Analysis of the consequences of the system.

   Develop the website and improve its performance by studying the conversion to Android and ios application, while the website remains.

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 Lecture

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 E-mail

W.daabes "new message ,done?wesamdaabes98@gmail.com ". (April.3,2021).

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