A Project Report

On

Employee Management System

Created By

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**PGDCA SEM-2**

Under The Guidance of

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AND

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Submitted To

**GEETANJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE**

Affiliated To

**SAURASTRA UNIVERSITY**

For Academic Year

**2022-23**

**Acknowledgement**

The project on EMPLOYEE MANAGEMENT SYSTEM is developed in html,css,java and php Language at GEETANJALI COLLEGE OF COMPUTER SCIENCE & COMMERCE.

I would like to acknowledge that my project has been completed and I am ensuring that, in this accomplishment,I would like to express my special gratitude to all my teachers and specially to **PROF.PRANAV TRIVEDI** and **PROF.HARSH JOSHI**  without their guidance and feedback it is not possible to complete this assignment.

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**INTRODUCTION**

**Abstract:**

The main objectives of this project are to maintain information about employee other activities like add employee,assign project ,employee leave as well as employee can view and request for leave.

Admin can add new employee.

**Purpose:**

The objective of the Employee Management Project is to allow the administrator of any organization to edit and find out the personal details of an employee and allows the employee to keep up to date with his profile.

**Project Profile**

**Project Title** : Employee Management System

**Development Software** : Notepad ++

**Back End Tool :** SQL Server

**Academic Year:** 2022-23

**Development By:** SHRUTI R. SADANI

**Submitted To:**  GEETANJALI COLLAGE

# Process Model

The Process Model used in our projects "Employee Management System" is waterfall model.

#### The Waterfall Model:

The waterfall model is a sequential design process, used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Construction, Testing, Production/Implementation and Maintenance.

The waterfall development model originates in the manufacturing and construction industries: highly structured physical environments in which after-the-fact changes are prohibitively costly, if not impossible. Since no formal software development methodologies existed at the time, this hardware-oriented model was simply adapted for software development.

#### https://lh3.googleusercontent.com/Y8dckNmj-SMPfI2Zsl8pTzrGvG7GT2AJNa5RhFxjs6x1jT_yTC6-z6JlhI9oNNQXaXFEmpZCRqNL6jb7Smmn2L2UIEYiPwCUEg71Y133JAf9DS4OJWeDaR05vm51sGfwdmCcZ0R1b7xWKa4U58Q6nA

#### Reason the waterfall model in the software development cycle:

→ Since we have well known, clean and fixed requirements therefore it best suits for our software development.

→ Our product definitions are stable.

→ Technology is clearly understood.

→ The project is short.

##### **Advantages of the waterfall model:**

→ This model is simple and easy to understand and use. In, this model phases are processed and completed one at a time and phases do not overlap.

→ Waterfall model works well for smaller projects where sequence is very well understood.

**Software Resources**

**Backend Design Tool :** XAMMP,SQL

**Code behind language:** HTML,CSS,JAVA SCRIPT,PHP

* **Functionality:**
  + Login / Logout
  + Add,Update and View employee details
  + Salary status
  + Assign project
  + View project status
  + View employee leave status

**List of modules**

* + - Login
    - Employee modules
    - Salary modules
    - Project modules
    - Leave modules

**Data Dictionary**

alogin Table

|  |  |  |
| --- | --- | --- |
| **Columns** | **Datatype** | **Constraints** |
| Id | int | PK |
| Email | TINYTEXT | None |
| Password | LONGTEXT | None |

**Add\_emp table**

|  |  |  |
| --- | --- | --- |
| **columns** | **Datatype** | **Constraints** |
| id | int | PK |
| full\_name | Varchar(50) | NOT NULL |
| email | Varchar(50) | NOT NULL |
| password | Varchar(10) | NOT NULL |
| birthdate | date | NOT NULL |
| gender | Varchar(10) | NOT NULL |
| contact\_no | Varchar(10) | NOT NULL |
| address | Varchar(50) | NULL |
| department | Varchar(10) | NOT NULL |
| degree | Varchar(15) | NOT NULL |
| salary | Int(10) | NOT NULL |
| pic | text | NOT NULL |

**Salary table**

|  |  |  |
| --- | --- | --- |
| **columns** | **Datatype** | **Constraints** |
| id | Int(11) | PK |
| base | Int(11) | NOT NULL |
| bonus | Int(11) | NULL |
| total | Int(11) | NULL |

**project table**

|  |  |  |
| --- | --- | --- |
| **columns** | **Datatype** | **Constraints** |
| pid | Int(11) | PK |
| eid | Int(11) | NULL |
| pname | Varchar(100) | NULL |
| duedate | date | NULL |
| subdate | date | NULL |
| mark | Int(11) | NOT NULL |
| status | Varchar(50) | NULL |

**Rank table**

|  |  |  |
| --- | --- | --- |
| **columns** | **Datatype** | **Constraints** |
| eid | Int(11) | NOT NULL |
| points | Int(11) | NULL |

**employee leave table**

|  |  |  |
| --- | --- | --- |
| **columns** | **Datatype** | **Constraints** |
| token | Int(11) | PK |
| id | Int(11) | NOT NULL |
| full\_name | Varchar(50) | NOT NULL |
| start | date | NULL |
| end | date | NULL |
| reason | Varchar(100) | NULL |
| status | Varchar(50) | NULL |

**DFD [Data Flow Diagram]**

|  |  |
| --- | --- |
| **Symbol** | **Description** |
| dfd symbol | **Data Flow** – Data flow are pipelines through the packets of information  flow. |
|  | **Process :** A Process or task performed by the system. |
|  | **Entity :** Entity are object of the system. A source or destination data of a system. |
| dfd source symbol | **Data Store :** A place where data to be stored. |

* DFD (Context Diagram):

**Login**

**Admin**

**Addd Database**

* Level 1 DFD:

**Admin**

**Admin**

**Admin**

**Admin**

**Admin**

**Admin**

**Employee login**

**Employee**

**Login**

**Employee Login**

**Employee Login**

**Employee Login**

ERD [Entity Relationship Diagram]:

**ADMIN LOGIN**

LOG- OUT

LEAVE

PROJECT

STATUS

PROJECT ASSIGN

SALARY

VIEW

EMPLOYEE

ADD EMPLOYEE

HOME

**Employee login**

**Logout**

**Leave**

**Project**

**Status**

**Employee**

**data**

**Employee**

**profile**