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hr management system

Table of Contents

**System Description1**

**System Requirements1**

Main functionality 1

**System Architecture2**

Main Architecture 2

Database Architecture 3

**System Diagrams (UML) 4**

Use case Diagram 4

ER Diagram 5

Class Diagram 6

**Tools and Technologies used by the system7**

System frame work 7

Tools 8

**Notes** 9

**Summary 10**

# ***System Description***

**HR Management System is responsible for collecting, managing and tracking company’s data and its employ’s data and payroll.H**

# ***System Requirements***

**Main Functionality:**

1. **The system must be accessed online, and each company can get its own domain to store its own private data.**
2. **Each company must be able to store employ’s data and based on these data; company can get a concluded information like employs degrees, pay rate and other information (not specified yet).**
3. **System must be able to track and mange payroll (according to attendance loaded from attendance machine) in a super detail for each employ.**
4. **System must be able to generate (monthly-yearly) log/report contains employ’s attendance, events and payroll.**
5. **System must be able to generate (monthly-yearly) log/report contains company overall payroll and maybe extra logs and reports (not specified yet).**
6. **System should be able to connect to attendance machine, able to synchronize attendance logs and assign attendance information to each employee which will used later to calculate deserved salary based on attendance logs.**

# ***System Architecture***

## **Main Architecture**

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Server’s space

Company database 002

Company database 00n

Company database 003

Company database 001

**Biometric attendance machine**

Company domain 001

Company domain 002

Company domain 003

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**.**

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**.**

**Biometric attendance machine**

**Biometric attendance machine**

**Biometric attendance machine**

Company domain 00n

**HR Management System**

**Company’s user**

**Company domain name + user name + password**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| N attribute | …… | Total | Out | In | ID |
| N attribute | **….** | **12 H** | **Date Time Out** | **Date time In** | **001** |
| N attribute | **….** | **8 H** | **Date Time Out** | **Date time In** | **002** |
| ……….. | **….** |  | **…….** | **…….** | **.** |
| N attribute | **….** | **6 H** | **Date Time Out** | **Date time In** | **n** |

**Employ 001 attendance table**

# ***Data Base Architecture***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N attribute | ……………… | Employs size | name | ID |
| N attribute | **………………** | **11** | **Company 1** | **001** |
| N attribute | **………………** | **50** | **Company 2** | **002** |
| N attribute | **………………** | **.**  **.**  **.**  **.** | **.**  **.**  **.**  **.** | **.**  **.**  **.**  **.**  **.** |
| N attribute | **………………** | **…..** | **Company n** | **n** |

**Employ 001 payroll table**

**Companies table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N attribute | ……………… | salary | name | ID |
| N attribute | **………………** | **1000** | **employ 1** | **001** |
| N attribute | **………………** | **5000** | **employ 2** | **002** |
| ……….. | **……………** | **…….** | **…….** | **.** |
| N attribute | **………………** | **…..** | **employ n** | **n** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N attribute | …… | amount | Total | end | start | ID |
| N attribute | **…** | **2000** | **90 H** | **Date** | **Date** | **001** |
| N attribute | **….** | **3000** | **80 H** | **Date** | **Date** | **002** |
| ……….. | **….** | **…** | **…** | **…….** | **…….** | **.** |
| N attribute | **….** | **200** | **60 H** | **Date** | **Date** | **n** |

**Company 001 employ table**

**Employ 002 attendance table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N attribute | ……………… | salary | name | ID |
| N attribute | **………………** | **1000** | **employ 1** | **001** |
| N attribute | **………………** | **5000** | **employ 2** | **002** |
| ……….. | **……………** | **…….** | **…….** | **.** |
| N attribute | **………………** | **…..** | **employ n** | **n** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| N attribute | …… | Total | Out | In | ID |
| N attribute | **….** | **12 H** | **Date Time Out** | **Date time In** | **001** |
| N attribute | **….** | **8 H** | **Date Time Out** | **Date time In** | **002** |
| ……….. | **….** |  | **…….** | **…….** | **.** |
| N attribute | **….** | **6 H** | **Date Time Out** | **Date time In** | **n** |

**Company 002 employ table**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N attribute | …… | amount | Total | end | start | ID |
| N attribute | **…** | **2000** | **90 H** | **Date** | **Date** | **001** |
| N attribute | **….** | **3000** | **80 H** | **Date** | **Date** | **002** |
| ……….. | **….** | **…** | **…** | **…….** | **…….** | **.** |
| N attribute | **….** | **200** | **60 H** | **Date** | **Date** | **n** |

**Employ 002 payroll table**

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**…..**

**Employ n attendance table**

**Company N employ table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| N attribute | ……………… | salary | name | ID |
| N attribute | **………………** | **1000** | **employ 1** | **001** |
| N attribute | **………………** | **5000** | **employ 2** | **002** |
| ……….. | **……………** | **…….** | **…….** | **.** |
| N attribute | **………………** | **…..** | **employ n** | **n** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| N attribute | …… | Total | Out | In | ID |
| N attribute | **….** | **12 H** | **Date Time Out** | **Date time In** | **001** |
| N attribute | **….** | **8 H** | **Date Time Out** | **Date time In** | **002** |
| ……….. | **….** |  | **…….** | **…….** | **.** |
| N attribute | **….** | **6 H** | **Date Time Out** | **Date time In** | **n** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| N attribute | …… | amount | Total | end | start | ID |
| N attribute | **…** | **2000** | **90 H** | **Date** | **Date** | **001** |
| N attribute | **….** | **3000** | **80 H** | **Date** | **Date** | **002** |
| ……….. | **….** | **…** | **…** | **…….** | **…….** | **.** |
| N attribute | **….** | **200** | **60 H** | **Date** | **Date** | **n** |

**Employ n payroll table**

# **Data Flow Diagram**