

Ex No: 6 EMPLOYEE MANAGEMENT APPLICATION

PROBLEM DEFINITION

A payroll application is to be developed which is required to perform the following functions:

It must provide a user in employee mode with the details of an employee, which includes his name, department, date of joining and salary.

It must validate a user to enter in administrator mode using password. It must provide a user to enter in administrator mode to view or modify an employee's details using his employee ID. It must also allow the user to add a new employee and delete records of an existing employee.

SRS DOCUMENT EMPLOYEE MANAGEMENTAPPLICATION

INTRODUCTION

Purpose

The purpose of this SRS is to describe the requirements involved in developing a system to manage employee records.

The intended audience is any person who wants

To check employee details (both employee and administrator mode).

To add new employee, modify any employee's details or delete records for the employee (only administer mode).

Scope

- The product is titled Employee Management Application (EMA).
- The product will perform the following tasks
- Allow either an employee or an administrator to view employee details.
- Allow the administrator to add a new employee with corresponding details.
- Allow the administrator to modify the detail of an employee.
- Allow the administrator to delete the records for an employee.

Definitions, Acronyms and Abbreviations

EMA: Employee Management Application.

References

IEEE standard 830-1998 recommended practice for Software Requirements Specifications-Description.

Overview

The SRS contains an analysis of the requirements necessary to help easy design.

The overall description provides interface requirements for the Employee Management System, product perspective, hardware interfaces, software interfaces, communication interface, memory constraints, product functions, user characteristics and other constraints.

Succeeding pages illustrate the characteristics of typical naïve users accessing the system along with legal and functional constraints enforced that affect Employee Management Application in any fashion.

THE OVERALL DESCRIPTION

Product perspective

Hardware interfaces

Hard disk: The database connectivity requires a hardware configuration that is on-line. This makes it necessary to have a fast database system (such as any RDBMS) running on high rpm hard-disk permitting complete data redundancy and backup systems to support the primary goal of reliability.

The system must interface with the standard output device, keyboard and mouse to interact with this software.

Software interfaces

Back End: MS Access2007

Front End: Microsoft Visual Basic 6.0

Memory Constraints

No specific constraints on memory.

Operations

The software allows two modes of operations

The administrator mode allows user to add a new employee, modify the existing details of an employee, view the details of an employee and also delete records for an existing employee.

Product Functions

Viewing the employee details

The user (both administrator and employee) must have the access to Upto-date information about the employee including

- Employee Id
- EmployeeName
- EmployeeDepartment
- DateofJoining
- Salary
- Adding a new employee

The user (only in administrator mode) must be able to add a new employee by supplying the following employee details.

- EmployeeName
- EmployeeDepartment
- DateofJoining
- Salary
- Modifying the details of an employee
- The user (only in administrator mode) must be able to modify the following details of an existing employee.
- EmployeeName
- EmployeeDepartment
- Date ofJoining
- Salary
- Usercharacteristics

The intended users of this software need not have specific knowledge as to what is the internal operation of the system. Thus the end user is at a high level of abstraction that allows easier, faster operation and reduces the knowledge requirement of enduser

The Product is absolutely user friendly, so the intended users can be the naïveusers.

The product does not expect the user to possess any technical background. Any person who knows to use the mouse and the keyboard can successfully use thisproduct.

Constraints

At the time of adding a new employee, each employee must be assigned a unique ID number.

SPECIFICREQUIREMENTS

Logical DatabaseRequirements

There is only one database which contains all the necessary information about an employee which includes employee ID, employee name, department, date if joining and salary.

FRONT – ENDDescription

The front end for the Employee Management Application (EMA) is designed using Microsoft Visual Basic 6.0. The front – end contains a user – friendly interface. It has a welcome screen that provides an option for the user to enter in employee mode or in administrator mode. In employee mode the user can enter the employee ID of the employee and view his details. The user has to validate him self using password to enter in administrator mode. In administrator mode, apart from viewing the details the user can also add a new employee by providing details or modify the existing details using the employee ID.

BACK – ENDDescription

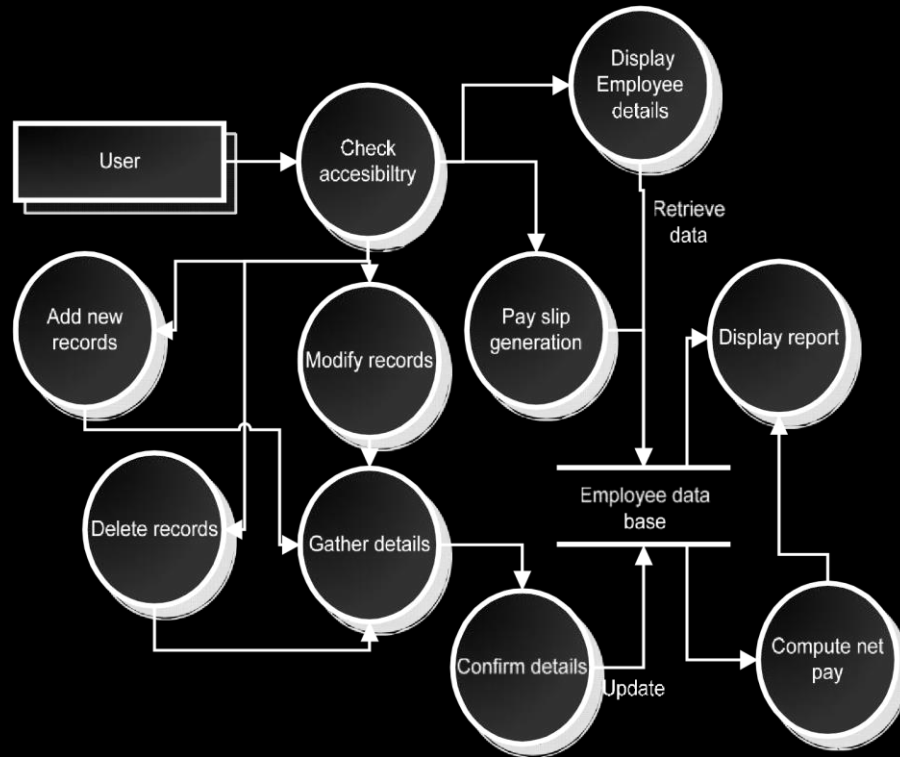
There is only one table. It correlates a unique employee ID with his name, department, date of joining and salary.

DATASTRUCTURES

EMPLOYEE DETAILS

FIELD NAME	TYPE	CONSTRAINTS
ID	AUTONUMBER	NOT NULL
NAME	TEXT	
DEPT	TEXT	
JOIN_DATE	DATE/TIME	
SALARY	NUMBER	

DATA FLOWDIAGRAM



TESTING:

FORM NAME	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	STATUS
MAIN MENU	Menu Option	Required form must be displayed	Required Form was displayed	Pass
ADD NEW EMPLOYEE	Employee details	Add employee details to database	Employee details was updated to database	Pass
VIEW EMPLOYEE DETAILS	Employee ID	Show employee details	Employee details was displayed	Pass
MODIFY EMPLOYEE DETAILS	Employee ID	Modify employee	Employee details was modified	Pass
DELETE EMPLOYEE DETAILS	Employee ID	Delete employee details	Employee details was deleted from database	Pass

SAMPLE FORMS

MAIN MENU

Form1

Employee Management
System

Add new
Employee

View Employee
Details

Modify
Employee
Details

Delete
Employee
Details

Exit

ADD NEW EMPLOYEE

Form2

Add an Employee

Name

Department

Date of Joining

September 2012

Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Today: 24-Sep-12

Salary

Submit

Cancel

VIEW EMPLOYEE DETAILS

View Employee Details

Employee ID

View Details

Name

Department

Date of Joining

Salary

Back to Main Menu

MODIFY EMPLOYEE DETAILS

Modify Employee Details

Enter ID

Modify Details

Name

Department

Date of Joining

Salary

Submit **Cancel**

September 2012

Mon	Tue	Wed	Thu	Fri	Sat	Sun
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Today: 24-Sep-12

DELETE EMPLOYEE DETAILS



The screenshot shows a web browser window with a single tab labeled 'Form5'. The page has a light blue background. At the top center, there is a dark blue box containing the text 'Delete Employee Details' in white, underlined font. Below this box, there is a label 'Enter ID:' followed by a text input field. Under the input field, there are two buttons: 'Delete Details' and 'Cancel', both with a light blue background and dark blue text.

RESULT

Thus, the Employee Management System was implemented using the specified front end and back end tools.