Capgemini

Human Resource Management Portal

Document Control :

Project Revision History

Date	Version	Author	Brief Description of Changes	Approver Signature
27.10.2022	1.0	Group 7		

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1. Introduction: -

1.1 Intended Audience: This is a confidential software in which all the functionalities were performed by admin(HR).

1.2 Project Purpose: -

The purpose of this document is to develop a tool to help HR team of a software development company who assign employees to software project. This tool should maintain information about project and employees it should then allow to allocate or de-allocate employees to project.

1.3 Key Project Objectives: -

a. Allow admin to enter the login and enter password.
b. Entering employee details and project details.
c. Display employee details and project details.
d. Modify/Update the employee details and project details
e. Delete and Search operations performed on employee details and project details.

1.4 Project scope: -

This project Human Resource Management Portal aims to Manage the project, stores the details of employees and projects, allocate and de-allocate employees to projects according to their expertise and no of employees required.

1.5 Functional Overview: -

1.5.1 Following header files are included in the program:

a. #include <stdio.h>
b. #include <string.h>
c. #include <functions.h>
d. #include <macros.h>
e. #include <struct.h>
f. #include <stdlib.h>

1.5.2 Following functions are included in the program:

a. Add() :- void add_emp(){

}

- Add function takes the input from the user as a employee id, first name, last name , Mobile number1,Mobile number2,Areas of expertise , Educational qualifications
- We check validity of Mobile numbers entered. If the entered number is less than or greater than 10, a message “Invalid Number” will flash.

- We will check the uniqueness of the first name and last name entered. If the name is in invalid format, it will show the message “name is invalid”.
- After a successful addition of the Record another message “Employee details” will appear on the screen.

b. Display() :- void display_emp()

{

}

- This function is designed to display all the details of the employees list.

c. Update() :-void update_emp()

{

}

- This function is used for updating the employee details with the help of empid.
- The functions uses the employee id given by the user to update the respective employee.

d. Delete(): void delete_emp(){

}

- This function is used for deleting the employee details with the help of employee id.
- The function is used to delete an employee from the employee file.

e. Add() :- void add_project()

{

}

- Add function takes the input from the user as a project id, client name, No of employees

required, Description.

- We will check the uniqueness of the client's name entered. If the name is in invalid format, it will show the message "name is invalid".

f. Display() :- void display_project()({

}

- This function is designed to display all the details of the project list.

g. Update() :-void update_project(){

}

- This function is used for updating the project details with the help of the project list.
- The functions uses the employee id given by the user to update the respective employee.

h. Delete :-void Delete_project(){

}

- This function is used for deleting the project details with the help of project id.
- The function is used to project an employee from the project file.

i. Search for project:-void search_project(){

}

- This function will display all the Details of Project according to search.

h . Search for employees: void search_emp()

{

}

- This function will display all the details of the employee list according to the search.

1.5.3 Design Overview

Name of the Module	employee details
Handled by	R.Poornima
Description	Entered the employee details and displayed the employee details

Name of the Module	employee details
Handled by	Varsha Suma
Description	Updated and deleted employee details

Name of the Module	employee details
Handled by	P. Damini
Description	Searching employee details

Name of the Module	project details
Handled by	M. Divya Bharathi
Description	Entered the project details and displayed details.

Name of the Module	project details
Handled by	C.Sireesha
Description	Updated and deleted employee details

Name of the Module	Project Details
Handled by	R. Poornima
Description	Searched the project details, and assigned Employees to projects.

1.6 Design Objectives: -

a. Allow admin to enter the login and enter password.
b. Entering employee details and project details.
c. Display employee details and project details.

d. Modify/Update the employee details and project details.
e. Delete and search Operations performed on the employee details and project details.

2. Design Interface:-

2. 1 User Interface Paradigms: -

The Human Resource Management Portal built for the HR team to assign projects to the employees of the company. It is easy to use software. HR team can allocate or de-allocate employees to the project. The software helps in maintaining the data of the ongoing project and employee information.

2.2 Performance: -

The system will work on the client terminal. The performance depends up on the hardware component of the user's system.

2.3 Maintenance: -

Very high maintenance should be required for this setup. Only admin maintenance would be any changes to settings after setup, where in special cases employee and project settings need to be changed. Physical maintenance on the system's parts may be required, and would result in temporary loss of data or Internet. Upgrades of hardware and software should have little effect on this project but may result in downtime.

3 SYSTEM ARCHITECTURE: -

3.1 Admin architecture

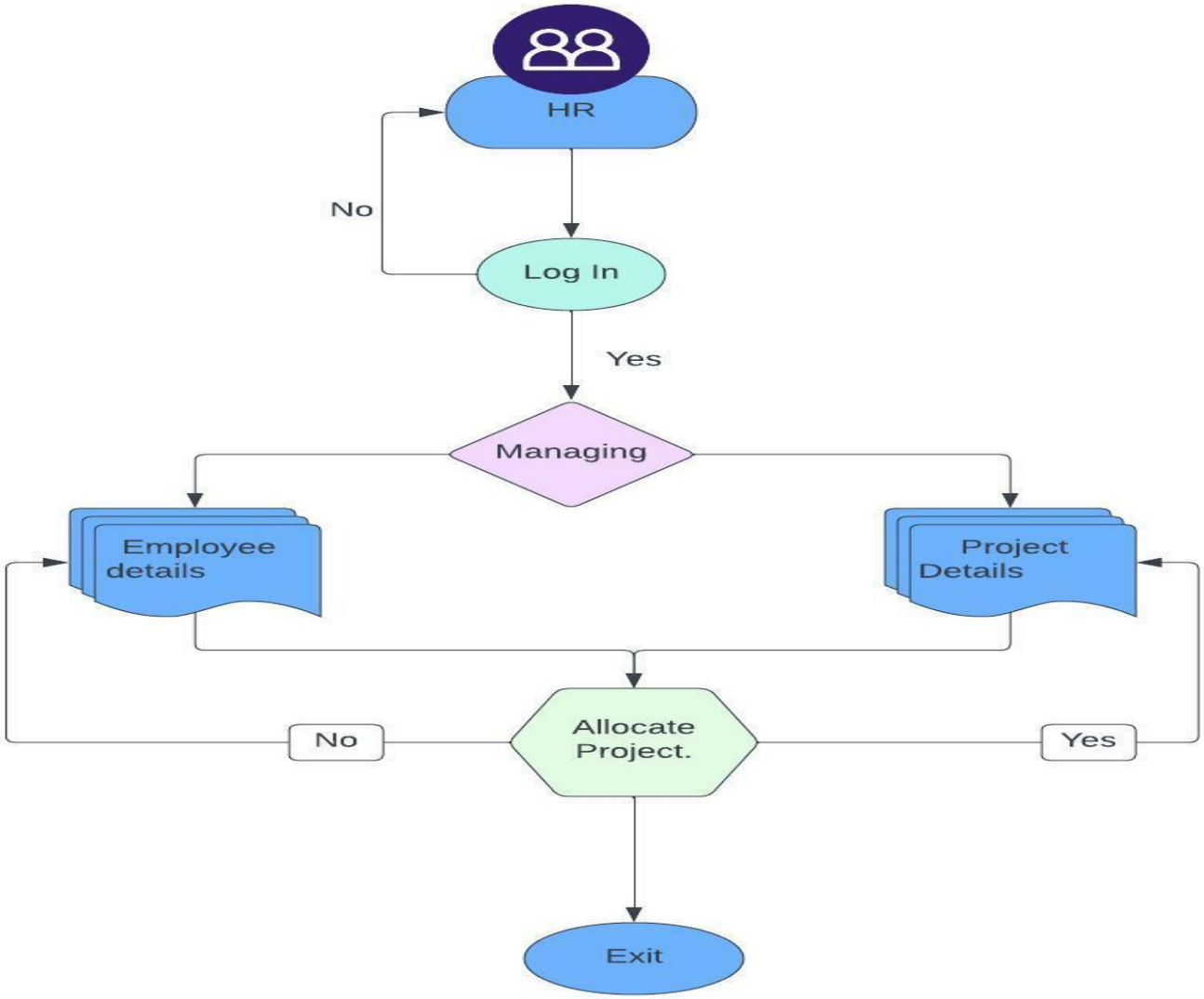
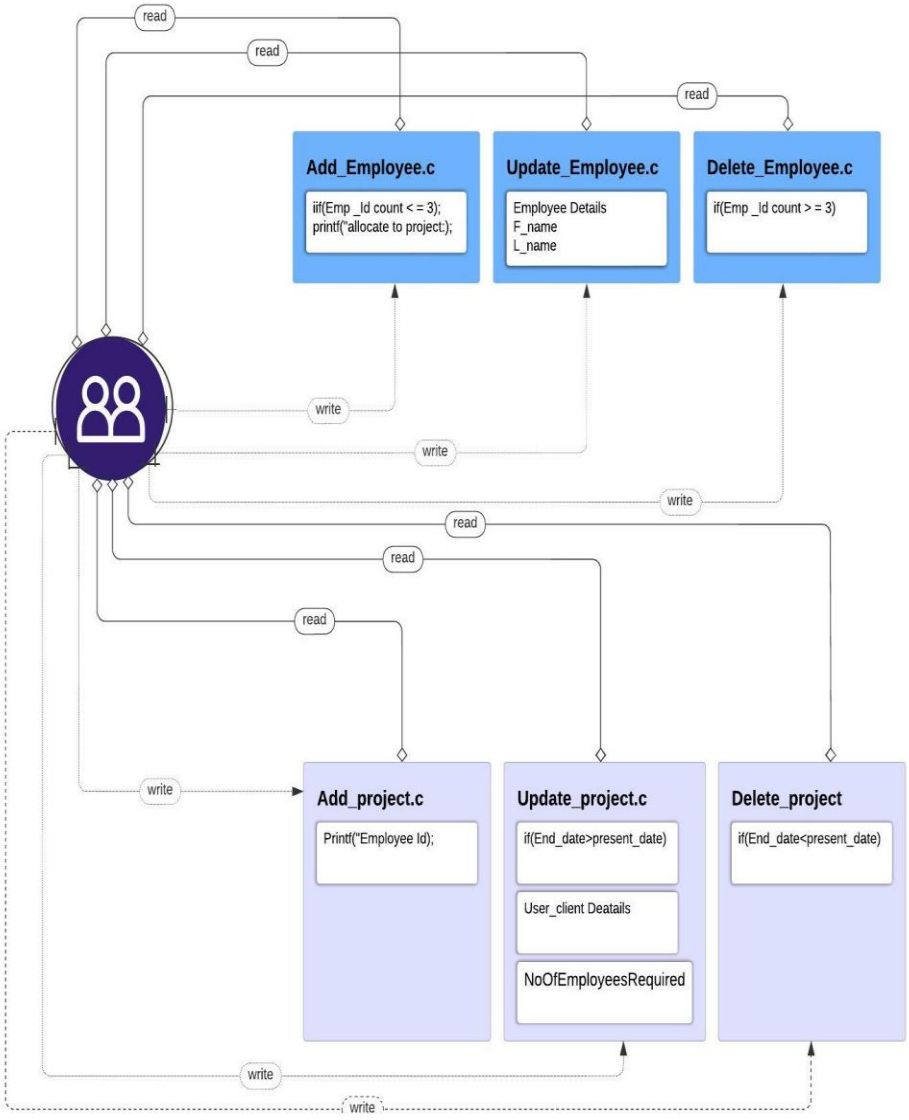


Fig : Admin architecture

- Human Resource Management Portal is a portal which takes the details of the portal and employee from the HR team and allocates the employee to the projects according to areas of expertise.
- The purpose of the document is to develop a tool to help HR team of software development company to assign employees to software projects. This tool should maintain information about project and employees. It should then allocate and de-allocate the employees to projects.
- This project Human Resource Management Portal aims to manage the projects, read the details of the employees, allocate, and de-allocate employees according to projects.
- Admin will login to the human resource management portal by entering the username and password.
- In human resource management portal, the admin will be managing the employee details and project details.
- By entering the employee details and project details we can perform operations such as the add, update, delete, display and search the employee, and project details.
- Admin will assign the employees to the projects according to the no of employees required and their areas of expertise.
- Each employee can be allocated to at most 3 projects but not more than three at a time.
- An Employee can be deallocated if he/she is present in more than three projects at a time.
- Updation of the project whose end date is over should not be allowed.
- Deletion of the project to which some employees are still assigned should not be allowed.

4 Detailed System Design

Activity Diagram:



5 Environment Description: -

5.1 Time Zone Support: - IST-Kolkata

5.2 Language Support: - English

5.2.1 User Desktop Requirements: -

a. 64-bit processor, 1 GHz or faster
b. At least 2 GB free hard drive space
c. At least 1 GB RAM

5.2.2 Server-Side Requirements: -

a. 64-bit processor, 1 GHz or faster
b. At least 1 GB free hard drive space
c. At least 1GB RAM

5.2.3 Application Server Disk Space: -

- No such disk space is required as the program is fully functional on online IDE(s) as well. Local Operating System is required and one txt file to store the records of processes.

5.2.4 Database Server Disk Space: -

- No such disk space is required as the program is fully functional on online IDE(s) as well. Local Operating System is required and one txt file to store the records of processes.

5.2.5 Integration Requirements: -

5.2.5.1 Language: - C
5.2.5.2 Tools: - Valgrind, Makefile ,Cygwin64
5.2.5.3 Complier: - gcc

5.2.6 Network: - End to End

5.3 Configuration: -

5.3.1 Operating System: - Windows

6 Reference: -

a. https://www.geeksforgeeks.org
b. https://www.slideshare.net/SpGurjar/phone-book-with-project-report-for-bcamca
c. https://github.com/NitikaM07/Group5_Banking_System_