

Project Report On

Human Resource Management System



Bangladesh University of Business and Technology Dhaka-1216

Department of Computer Science and Engineering

“Human Resource Management System”

A

Project Report

Submitted in partial fulfillment

Of the requirements

For the course of

Software Development 1

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DECLARATION

We here by state that the discussion entitled “Human Resource Management System” being submitted by us as the partial fulfillment of the requirement for the course of Software Development 1, Department of Computer Science and Engineering is a project work carried by us under the supervision of Badhan Chandra Das and have not been given anywhere else.

We will be the responsible if any mistake found there.

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We would like to thank Badhan Chandra Das Sir for his continuous guidance and teachings, because of which we could learn numerous aspects of preparing a project work.

We would also like to thank our classmates as they have helped us whenever we faced a hurdle and most importantly our parents who constantly kept our morals high and in time of frustrations gave the fuel to keep on working.

Thank you all.

Abstract

Human Resource Management System (HRMS) is a distributed application. Built to handle all the data in a company. HRMS keeps track of employee information, records employee entry and exit time information. Currently the records are maintained in registrars. HRMS will help in computerizing the data storing. Current process is time consuming. But HRMS will help save time. In the current system it is hard to retrieve data. Where as in HRMS it is easy to retrieve any data. Due to human intervention current system is prone to errors. Whereas HRMS reduces errors. Current system increases red tape but HRMS decreases human contact thus decreasing red tape bureaucracy the system as a host of other features, which is made using C. It is extremely user friendly. Can be used with little or no training by anyone with no prior knowledge of Human Resource Management System. It is highly user friendly and asks the user to follow simple steps to operate the application. It is quick in executing different types of tasks of a company.

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Chapter:1. Introduction:

This chapter gives an overview about the software destination, building environment and objective of the project.

1.1Project aim and objective:

Human Resource Management System is an application that helps users to keep track of Employee Records. The system also furnishes the user with the advantage of recording work hour information of the employees. This system is advantageous to the department of the operation which keeps data of employees related to a company.

1.2Developing Environment:

The below table consist of the developing environment used during the making of HRMS.

Processor	Intel 10Gen Core i3
Operating System	Windows 10
Memory	8 Gb
Storage	500GB
IDE	CodeBlocks
Compiler	GNU GCC

Chapter:2 System Analysis:

In this chapter, we will observe and discuss about the making method of Human Resource Management System.

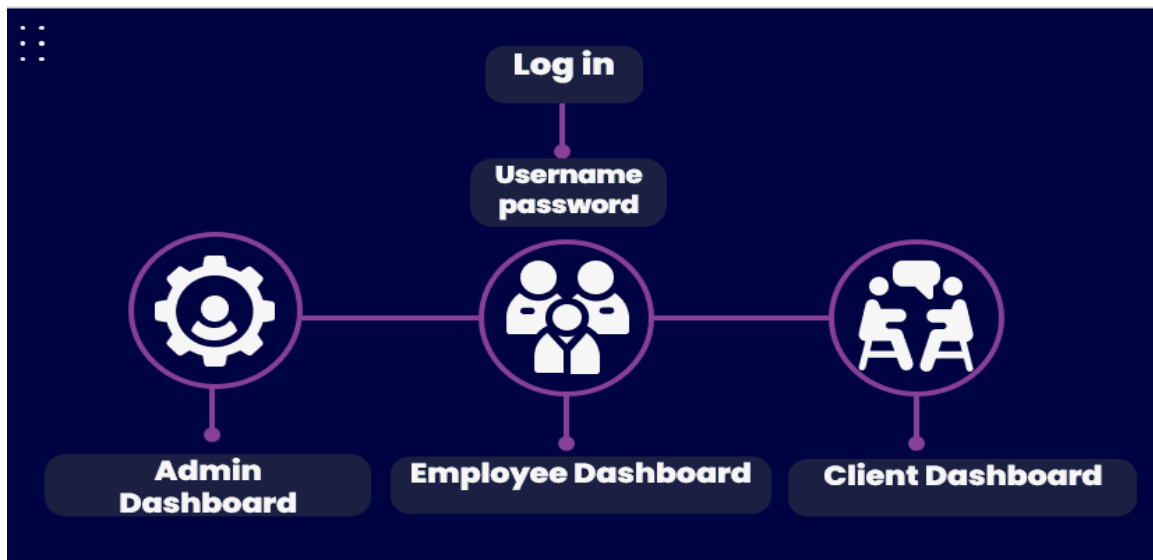
2.1 General description:

In the quick world of changing technologies every work is slowly but surely destined to become automated. With huge number of works options the need to keep data for large groups of people has increased. Thus, there is a requirement for a system to handle the information of such a

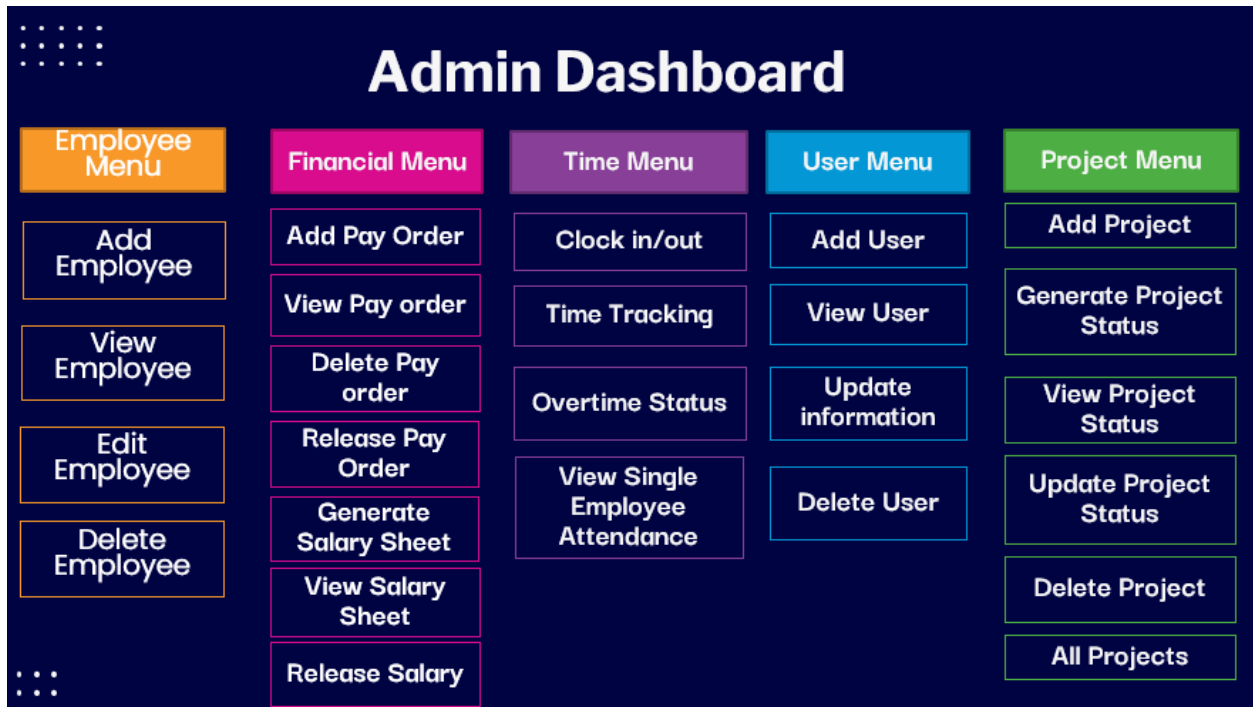
large number of employees in a company. HRMS does exactly that for a company.

2.2 Software Design: Here we are showing the overall design of our software.

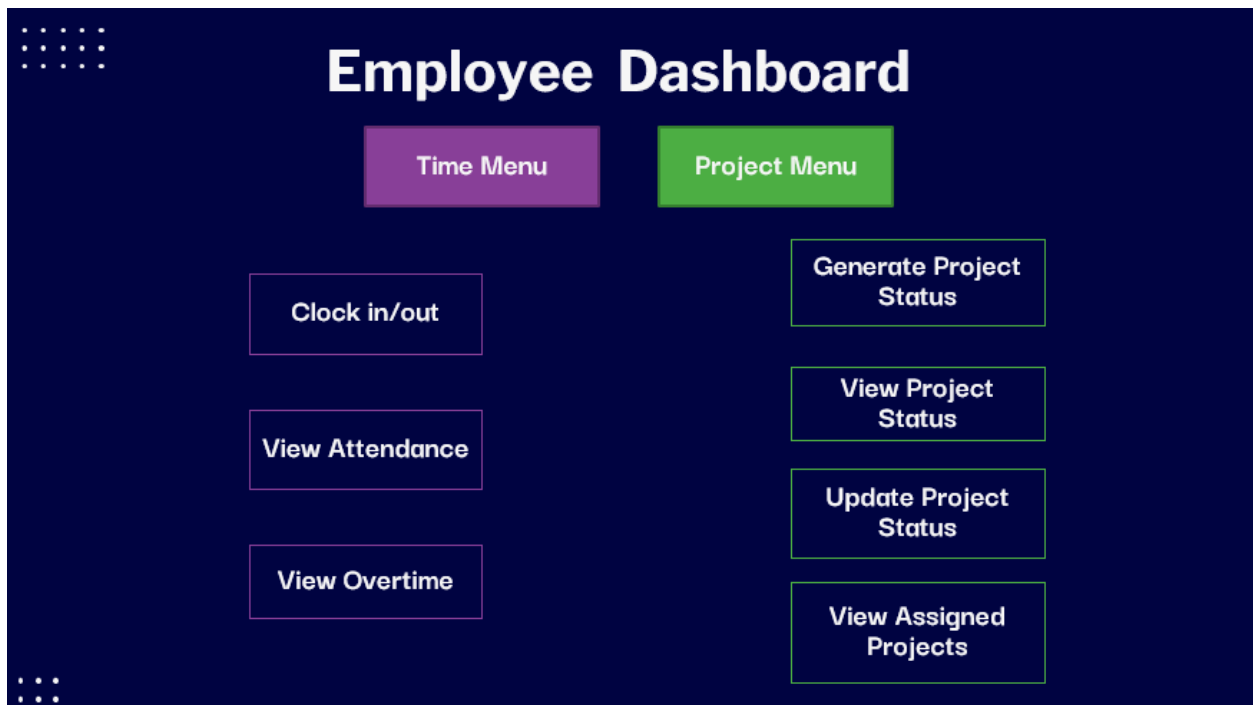
1.Log in Dashboard



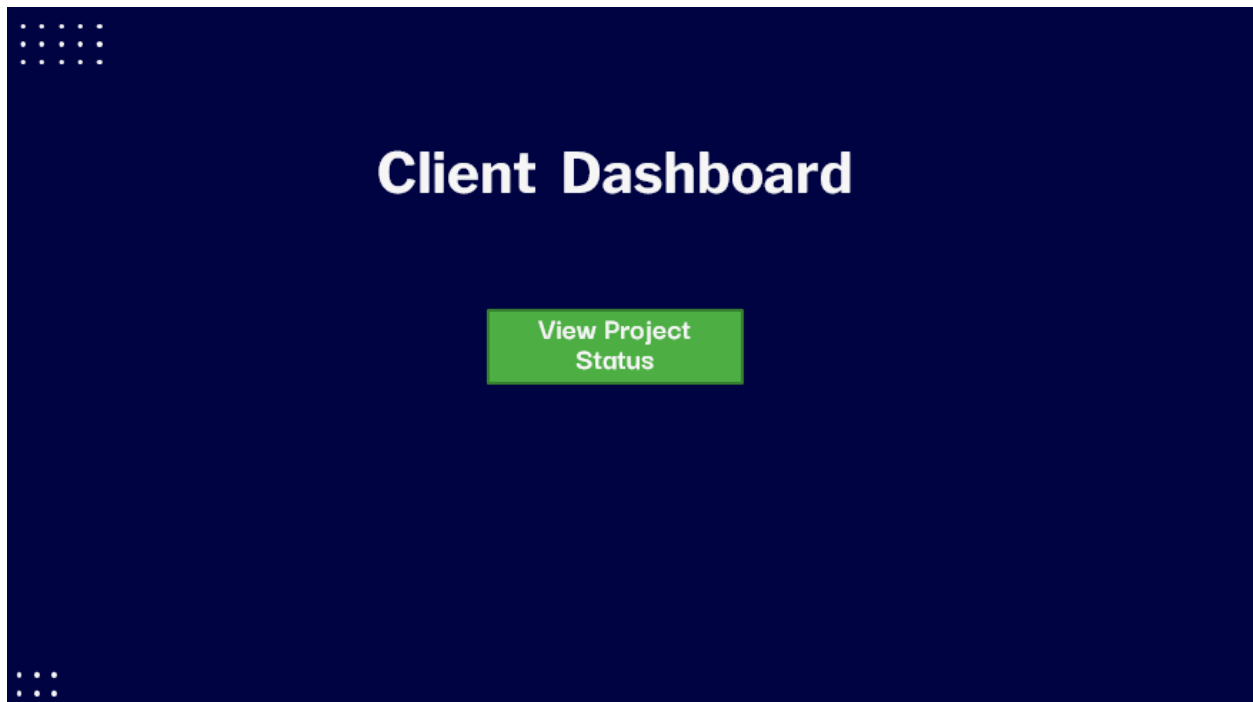
2.Admin Dashboard



3.Employee Dashboard



4. Client Dashboard:



2.3 Implementation:

2.3.1 Module description:

- **2.3.1.1 Admin Login:** Admin is the one who supervises the system by overseeing all the Human Resource Management System. Admin can add new employee, remove employee and able to edit employee information. Another option is that admin can avail is see all employee hours worked monthly using employee id.

Admin can also see the below modules

 **1.Employee Menu**

 **2.Financial Menu**

 **3.Time Menu**

4. User Menu

5. Project Menu

6. Software Manual

7. Exit

1. Employee Menu: It has 4 additional sub menus

- Add Employee: Admin can add a new employee with all basic information, salary, insurance coverage and job history.
- View All Employee: Admin can see number of employees, employee ID, name, date of birth, NID, Salary, insurance and rewards related information.
- Edit Employee: Admin can edit all information of an existing employee
- Delete Employee: Admin can delete a existing employee

2. Financial Menu: It has 8 additional sub menus.

- Add Pay Order: Admin can add pay order where payment information is also added.
- View Pay Order: Here admin can see approved, rejected and pending pay orders.
- Delete Pay Order: Here admin can delete existing pay order information
- Release Pay Order: Admin can approve or reject pay order from this module.
- Generate Salary Sheet: Here salary sheet for all employees will be generated automatically.
- View Salary Sheet: Generated salary sheet can be viewed here
- Release Salary by Individual: Here salary can be approved individually

- Release Salary by Month: Here salary can be approved by a specific month

3.Time Menu: It has 3 additional sub menus.

- Clock in/out: Clock in and out keeps a log of employee entry and exit times.
- Time tracking: Here total working time and overtime status can be viewed.
- View Single Employee Attendance: It shows a table of the total working time overtime status of a single employee.

4.User Menu: It has 4 additional sub menus.

- Add User: Can add a new user for the software determining their role.
- View User: Here user information and user role can be viewed.
- Update User: Here user information and role can be updated.
- Delete User: Existing User Can be deleted Here

5.Project Menu: It has 6 additional sub menus.

- Add Project: New project can be added after receiving an order from the client.
- Generate Project Status: Here project progress starting sheet is generated.
- View Project Status: Here generated project status sheet is viewed.
- Update project status: Here project status can be updated
- Delete Project: Here any project can be deleted
- All Projects: All current ongoing project can be viewed here.

6.Software Manual: Software manual guides the user on how to use the software

2.3.1.2 Employee Login: The employee can only access the time and project menu. In time menu the employee can access the clock in or out, view attendance and view overtime. In project menu the employee can access generate, view and update project status and view assigned projects.

An employee can see the modules below

1.Time Menu

2.Project Menu

1.Time Menu: It has 3 additional sub menus.

- Clock in/out: Clock in and out keeps a log of employee entry and exit times.
- View Attendance: From here the employee can see the days of attendance.

2.Project Menu: It has 4 additional sub menus.

- Generate Project Status: Here project progress starting sheet is generated.
- View Project Status: Here generated project status sheet is viewed.
- Update project status: Here project status can be updated
- View Assigned Projects: Employee can see all the projects assigned to him.

2.3.1.3 Client Login: The client can see all the information about the project that he has ordered.

Client can see the module below:

- **View Project Status:** Client Can see his ordered project status & also who is assigned to complete the project.

2.4Testing:

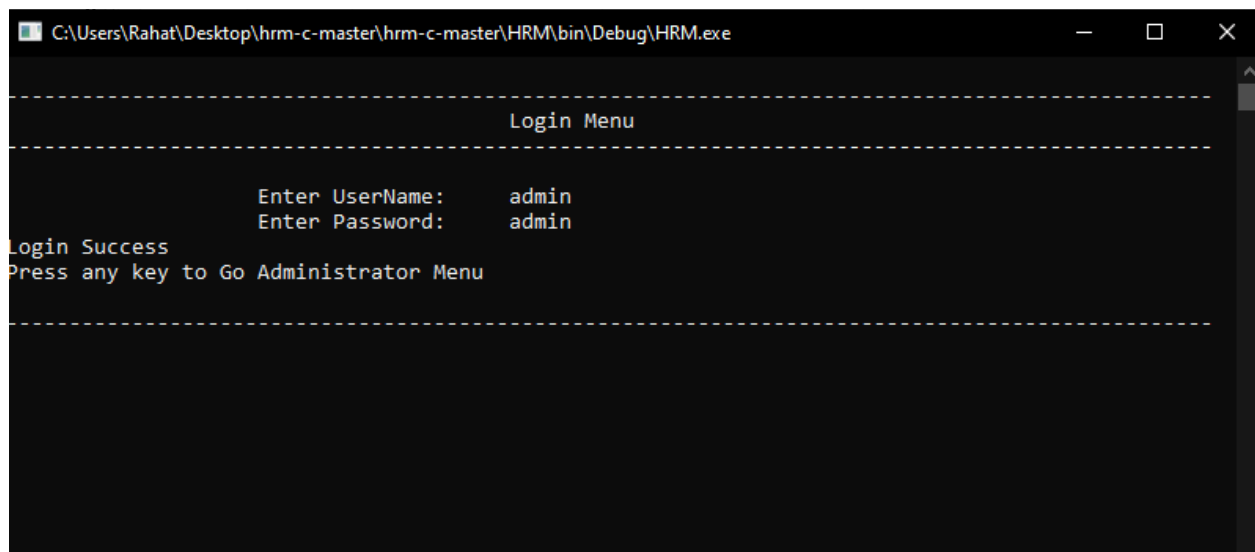
We have tried our system by inputting all kinds of imaginable inputs. Now, it shows no kind errors. But in the early stage when we were making the system it ran into errors at every turn. Then we had to check every function, every line of code to find the problem.

Finally, we are successful in solving all the problems that we have encountered.

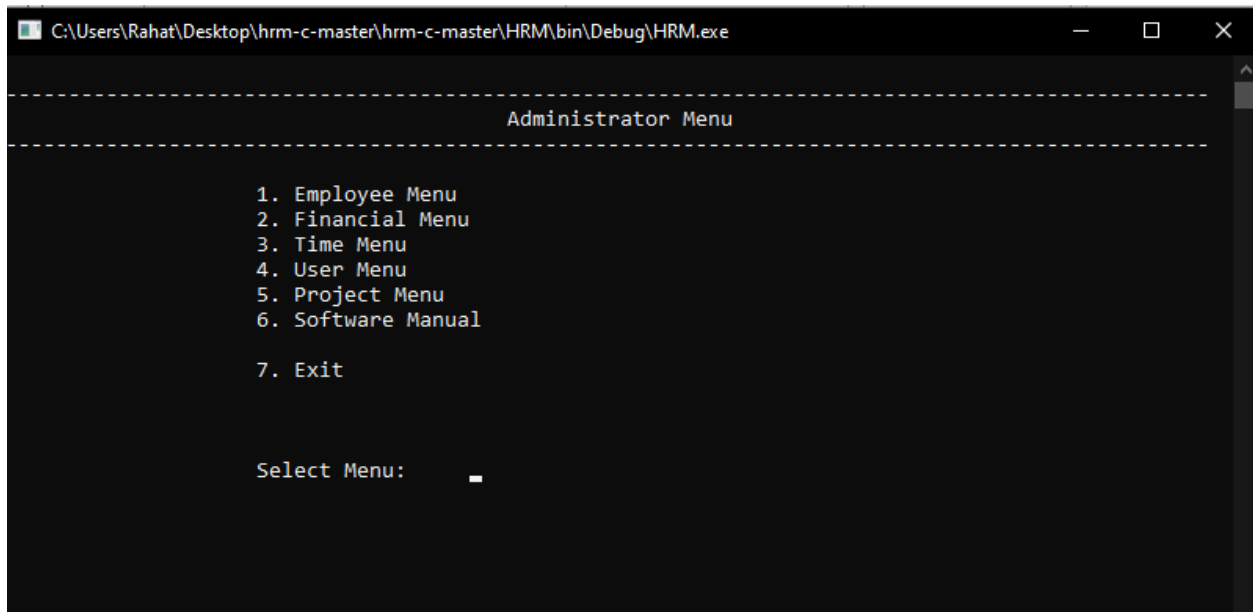
Chapter 3 Results:

3.1 User Interface:

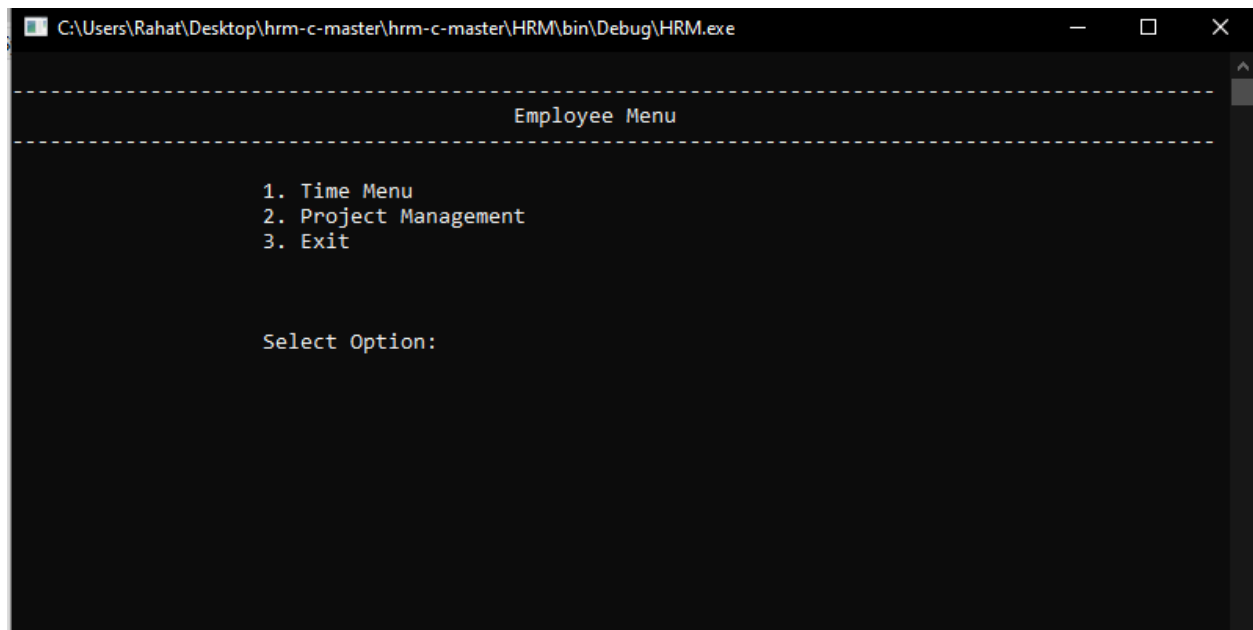
Log in Form



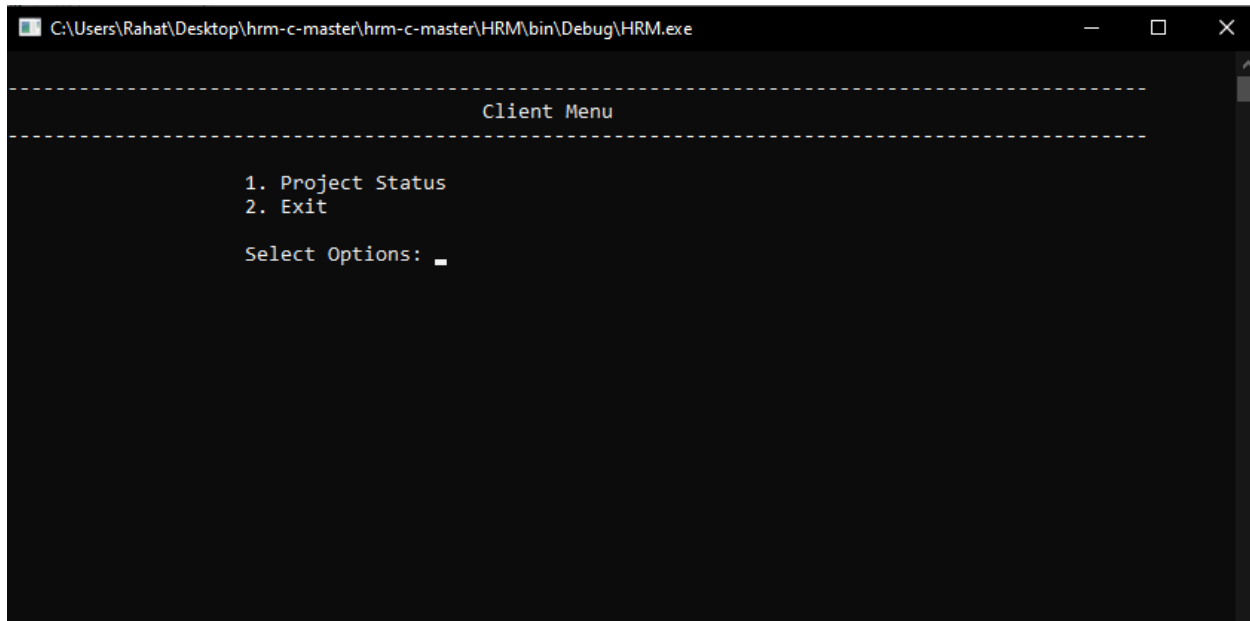
Admin Dashboard



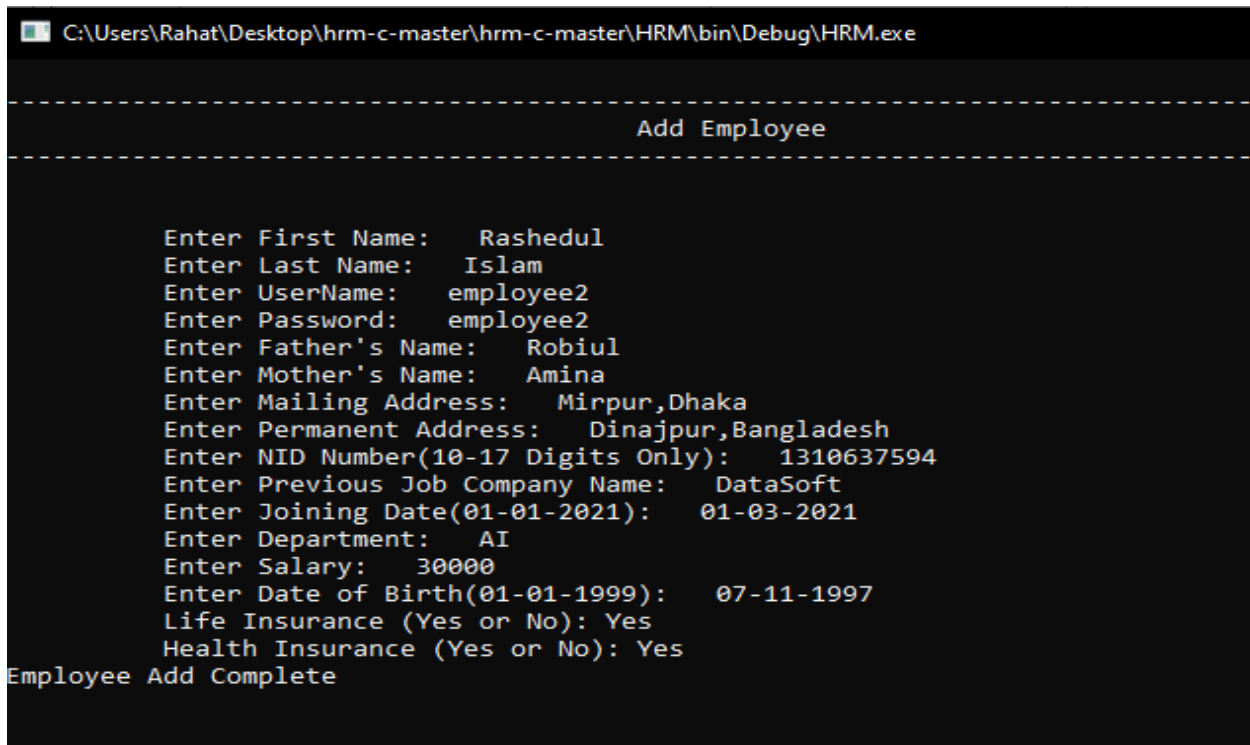
Employee Dashboard



Client Dashboard



Add Employee



View Employee

C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

View Employee						
ID	Name	Date of Birth	NID	Salary	LI	HI
102	employee	01-01-1999	123456789	25000	yes	no
104	Rashedul	07-11-1997	1310637594	30000	Yes	Yes
105	Farzana	30-12-1995	958821623	40000	No	No

Press any key to go Back

Add Pay Order

C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

Add Pay Order

Date(01-01-2021): 30-12-2020
Pay To: LiuHosT
Amount: 30000
Type(Employee/Company/Salary/Other): Company

Pay Order Add Complete

Press any key to go Back

Release Pay Order

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
Release Pay Order
-----

Enter Pay Order Id: 1
Id: 1
Date: 30-12-2020
Pay To: LiuHost
Amount: 30000
Type: Company
Employee Id: 0
Status: Pending

1. Approve
2. Reject
1
```

Time Tracking

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
Employee Time Track
-----

Your Id: 2021

-----
E-ID Date      Clock In      Clock Out Total Time      Over Time
-----
2021 4-Mar-2021 13:32:19     13:32:24  01:59:55       No
2021 11-Mar-2021 03:08:30     03:08:35  01:59:55       No

Press any key to go Back

```

Add User

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
                          Add User
-----

Enter Username:  admin2
Enter Password:  admin2
Enter First Name:  Miraz
Enter Last Name:  Ahmed
Enter ROLE (A|E|C):  A
User Add Complete
_
```

View User

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
                          View Users
-----

  ID  Username  First Name  Last Name  Role Name
-----
  101  admin      Ashikur    Rahman     A
  102  employee   Rahat      Tamzid     E
  103  client     Ehfaz      Mahee      C
  104  employee2   Rashedul   Islam      E
  105  employee3   Farzana    Rupa       E
  106  admin2     Miraz      Ahmed      A
-----
Press any key to go Back
```

Add Project

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
Add Project
-----

Enter Project Name: BugFix
Enter Customer First Name: Jannatul
Enter Customer Last Name: Mawa
Enter Client Username: client5
Enter the Client Password: 12345
Enter Project Start Date(01-Feb-2021): 22-Mar-2021
Enter Project Deadline(01-Feb-2021): 22-April-2021
Enter Project Manager Name: Rahat
Enter Employee Id: 104

Project Add Complete
Press any key to go Back
```

View Projects

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
View Projects
-----

P ID   Project Name  C ID   E ID   Project End
-----
1011   (test)       103    102    01-Feb-2021
1012   (WordressCMS) 107    105    03-June-2021
1013   (BugFix)     109    104    22-April-2021
-----

Press any key to go Back
```

Project Status Update

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
Edit Project
-----

Enter the Project Id: 1013

ID: 103
Project ID: 1013
Project Name: (BugFix)
Project Status: 0

Enter the Status Update(1-100):100
Record Updated
Press any key to go Back
_
```

View Project Status

```
C:\Users\Rahat\Desktop\hrm-c-master\hrm-c-master\HRM\bin\Debug\HRM.exe

-----
View Projects Status
-----

P ID  Project Name  C ID  E ID  Project End  Status
-----
1011  (test)         103   102   01-Feb-2021  Complete
1013  (BugFix)       109   104   22-April-2021 Complete
-----

Press any key to go Back
_
```

Chapter 4 Conclusion:

4.1 Future Work: For future work, more features will be implemented in the application and make the application available for other platforms too. In future the client and employee will be able to interact over the internet. We will also add

- ✓ API Integration
- ✓ Convert it to C++ and PHP.
- ✓ Upgrade UI and UX.
- ✓ More OS Support.
- ✓ Database Module Integration
- ✓ Report Management.
- ✓ One to Many Data control.
- ✓ Live time calculation upgrade

4.2Conclusion: In this report, a human resource management system has been presented. It was the ordinary steps, taken during the making of this project. Attention was given to the basic operative actions performed upon the data into the file.