

**PROJECT REPORT**

**ON**

**“Security Guard Management System”**

**BY**

**Miss. Swarada Nitin Joshi.**

**MCA-III SEM-VI**

**SUBMITTED TO**

**SAVITRIBAI PHULE PUNE UNIVERSITY**

**MASTER OF COMPUTER APPLICATION**

**INSTITUTE OF MANAGEMENT CAREER AND COURSES,**

**MAYUR COLONY, KOTHRUD PUNE- 411038.**

**2019-2020**

Maharashtra Education Society's



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Ref. No : MCA/Project/023/2020-21

Date : 14/09/2020

### CERTIFICATE

This is to certify that the Project Report entitled “**SECURITY GUARD MANAGEMENT SYSTEM**” is prepared by **Miss. Swarada Nitin Joshi**, a student of **M.C.A.** Course for the Academic Year 2019-20 at M.E.Society's Institute of Management & Career Courses (IMCC), Pune - 411 038. M.C.A Course is affiliated to Savitribai Phule Pune University.

To the best of our knowledge, this is original study done by the said student and important sources used by him have been duly acknowledged in this report.

The report is submitted in partial fulfilment of M.C.A. Course for the Academic Year 2019-20 as per the rules & prescribed guidelines of Savitribai Phule Pune University.

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## **ACKNOWLEDEMENT**

I take this opportunity to express my profound gratitude and deep regard to my project guide Mrs. Shilpa Paralikar for her exemplary guidance, monitoring and constant encouragement throughout the course of this project. The blessing, help and guidance given by her time to time shall carry me a long way in the journey of life on which I am about embark.

I would like to thank Dr. Santosh Deshpande (Director, IMCC) and Mr. Ravindra Vaidya (HOD, IMCC) and Mrs. Apurva Barve (Class Coordinator, MCA-III) for their cordial support, valuable information and guidance, which helped me in completing this through various stages.

I am obliged to staff members of MES'S IMCC College for the valuable information provided by them their respective fields. I am grateful for their respective fields. I am grateful for their cooperation during the period of my assignment.

Finally, I am extremely thankful to my parents, classmates, teaching and non-teaching staff for their kind and whole cooperation.

**Swarada N. Joshi**

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**CHAPTER 1**  
**INTRODUCTION**

## **1.2 EXISTING SYSTEM AND NEED OF SYSTEM:**

The existing manual system consists of salary calculation. The salary calculation of all employees was done manually and it is very tedious to do salary calculation of every employee. There was possibility of wrong calculation. Attendance was recorded on paper. Employee deployment was recorded manually.

There is greater possibility of human errors while keeping different types of records like attendance of employee, salary calculation and employee deployment etc. To overcome these problems there is need of the system.

Need of computerization system in day to day working is required because some qualities, accuracy, data maintain is gain by computerization, which was not all maintained manually.

Speed-computer is extremely fast. System is made in such way. Quantity-Large amount of data can be process very quickly and effectively.

Error indication – If the user done any type of mistake then system is capable of showing errors.

Accurate result -System produce the result which are accurate as per demand.

### **1.3 SCOPE OF THE WORK:**

- Admin/HR can manage his process through this system.
- This system will handle the employee data.
- It contains attendance management system.
- It also helps to manage the leave of employee.
- Calculate salary according to attendance and leave of every employee by using different salary component.
- Man power supply management will be handling through that system by providing man power to the specific client.
- Various types of report will be created like Pay slip of every employee, Monthly salary details, Employee report, Employee deployment report, Client contract report etc.

## **1.4 OPERATIONAL ENVIRONMENT -HARDWARE AND SOFTWARE:**

### **Hardware Requirement:**

- RAM: 1 GB
- Hard Disk: 2 GB
- Processor: Dual core and above
- Other: Monitor, Keyboard, Printer

### **Software Requirement:**

- Operating System: Windows
- Technology: ASP.NET, C#, HTML, CSS.
- Database: Microsoft SQL Server.
- Development kit: Microsoft Visual Studio 2010.



## **1.5 Detailed Description of Technology Used:**

### **Overview Of .Net Framework:**

.NET is a software framework which is designed and developed by Microsoft. The first version of the .Net framework was 1.0 which came in the year 2002. In easy words, it is a virtual machine for compiling and executing programs written in different languages like C#, VB.Net etc. It is used to develop Form-based applications, Web-based applications, and Web services. There is a variety of programming languages available on the .Net platform, VB.Net and C# being the most common ones. It is used to build applications for Windows, phone, web, etc. It provides a lot of functionalities and also supports industry standards.

### **Common Language Runtime:**

CLR is the basic and Virtual Machine component of the .NET Framework. It is the run-time environment in the .NET Framework that runs the codes and helps in making the development process easier by providing the various services such as remoting, thread management, type-safety, memory management, robustness, etc.. Basically, it is responsible for managing the execution of .NET programs regardless of any .NET programming language. It also helps in the management of code, as code that targets the runtime is known as the Managed Code and code doesn't target to runtime is known as Unmanaged code.

## **NET Framework Class Library:**

Framework class library is the collection of reusable, object-oriented class libraries and methods, etc. that can be integrated with CLR. Also called the Assemblies. It is just like the header files in C/C++ and packages in the java. Installing .NET framework basically is the installation of CLR and FCL into the system.

## **ASP.NET:**

ASP.NET is a web development platform, which provides a programming model, a comprehensive software infrastructure and various services required to build up robust web applications for PC, as well as mobile devices. ASP.NET works on top of the HTTP protocol, and uses the HTTP commands and policies to set a browser-to-server bilateral communication and cooperation.

ASP.NET is an open-source server-side web application framework designed for web development to produce dynamic web pages developed by Microsoft to allow programmers to build dynamic web sites, web applications and web services. It was first released in January 2002 with version 1.0 of the .NET Framework, and is the successor to Microsoft's Active Server Pages (ASP) technology. ASP.NET is built on the Common Language Runtime (CLR), allowing programmers to write ASP.NET code using any supported .NET language. The ASP.NET SOAP extension framework allows ASP.NET components to process SOAP messages.

ASP.NET is used to produce interactive, data-driven web applications over the internet. It consists of a large number of controls such as text boxes, buttons, and labels for assembling, configuring, and manipulating code to create HTML pages. ASP.NET works on top of the HTTP protocol, and uses the HTTP commands and policies to set a browser-to-server bilateral communication and cooperation.

The ASP.NET application codes can be written in any of the following languages:

- C#
- Visual Basic.Net
- Jscript

### **HTML:**

HTML is the standard mark-up language for creating Web pages.

- HTML stands for Hyper Text Mark-up Language
- HTML describes the structure of a Web page
- HTML consists of a series of elements
- HTML elements tell the browser how to display the content
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page.

Hypertext Mark-up Language, commonly referred to as HTML, is the standard mark-up language used to create web pages. It is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>).

Web browsers can read HTML files and compose them into visible or audible web pages. Browsers do not display the HTML tags and scripts, but use them to interpret the content of the page.

HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behaviour of HTML web pages.

### **CSS:**

Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a mark-up language. While most often used to change the style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. Along with HTML and JavaScript, CSS is a cornerstone technology used by most websites to create visually engaging webpages, user interfaces for web applications, and user interfaces for many mobile applications.

CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colours, and fonts.

## Microsoft SQL Server:

SQL is a standard language for accessing and manipulating databases.

- SQL stands for Structured Query Language
- SQL lets you access and manipulate databases
- SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987.

MS SQL Server is a relational database management system (RDBMS) developed by Microsoft. It is a software, developed by Microsoft, which is implemented from the specification of RDBMS. It is also an ORDBMS. It is platform dependent. It is both GUI and command-based software. It supports SQL (SEQUEL) language which is an IBM product, non-procedural, common database and case insensitive language.

SQL Server works in client-server architecture; hence it supports two types of components – (a) Workstation and (b) Server.

**Workstation components** are installed in every device/SQL Server operator's machine. These are just interfaces to interact with Server components. Example: SSMS, SSCM, Profiler, BIDS, SQLEM etc.

**Server components** are installed in centralized server. These are services. Example: SQL Server, SQL Server Agent, SSIS, SSAS, SSRS, SQL browser, SQL Server full text search etc.

**CHAPTER 2**  
**PROPOSED SYSTEM**

## **2.1 Proposed System:**

- To manage HR process through this system so that it reduces manual work.
- To avoid delay & errors in recording.
- To calculate salary by using different salary component and attendance of employee.
- To manage leave of employee and attendance of employee.
- To enhance speed of work.
- Man power supply management by providing man power to the specific client and maintain of every employee.

## **2.2 Objective of System:**

The main objective of this project is to computerised the manual system and reduce the time consumption.

- To provide paperless work environment.
- To make all the operation computerised.
- To avoid chance of mistake.
- Centralised database management.
- Easy to handle.



## **2.3 User Requirement:**

Requirements analysis is a software engineering task that bridges the gap between system level software allocation and software design. Requirement analysis enables the system engineer to specify software function and performance indicate software`s interface with other system elements and establish design constraints that the software must meet.

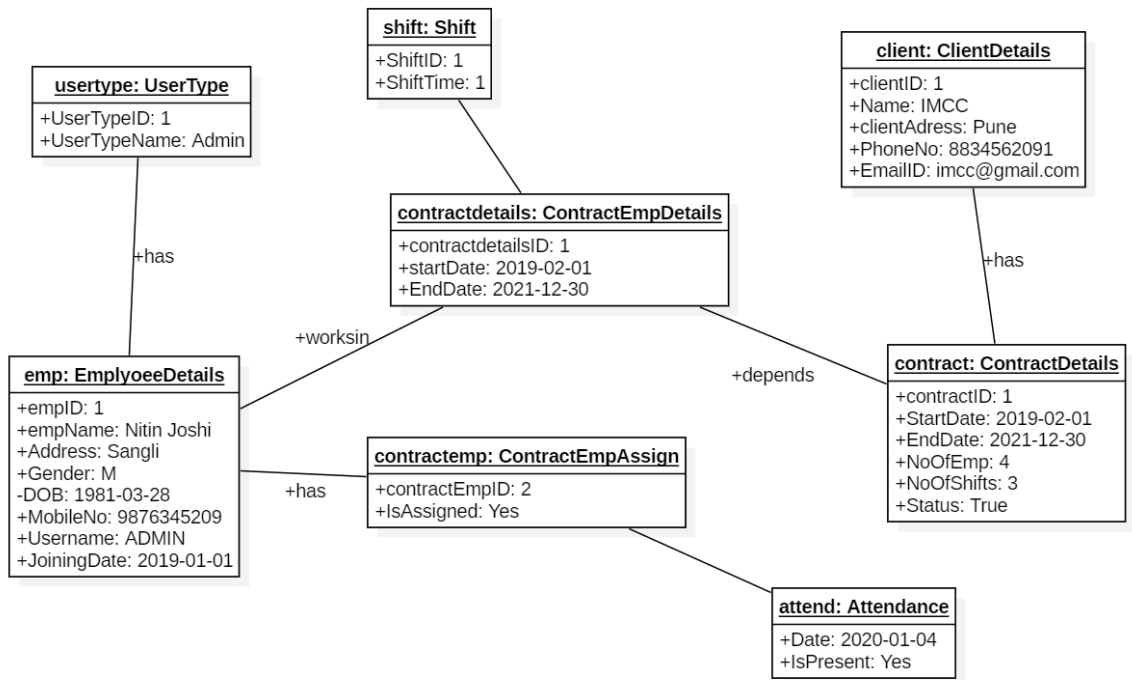
This project will have user-friendly screens. This screen designed will have very simple functionalities for adding/retrieving/updating information.

This project is a secured system, which will provide corporate level security. Only authorized people will be able to access critical information.

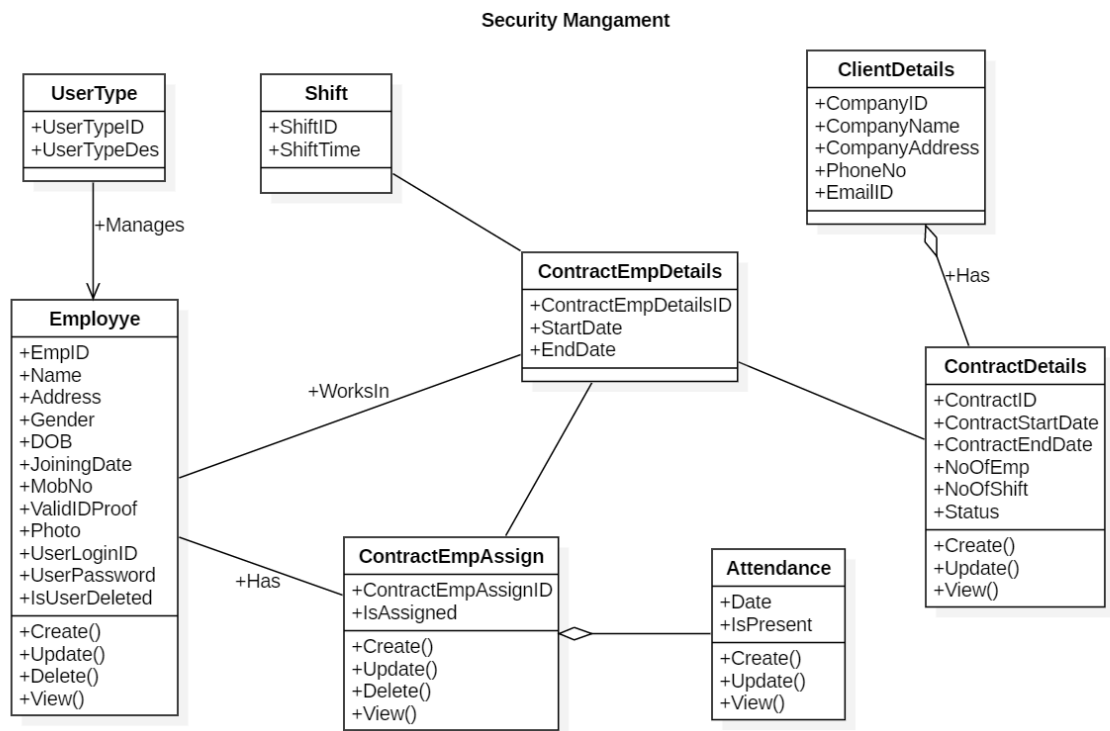
**CHAPTER 3**

**ANALYSIS AND DESIGN**

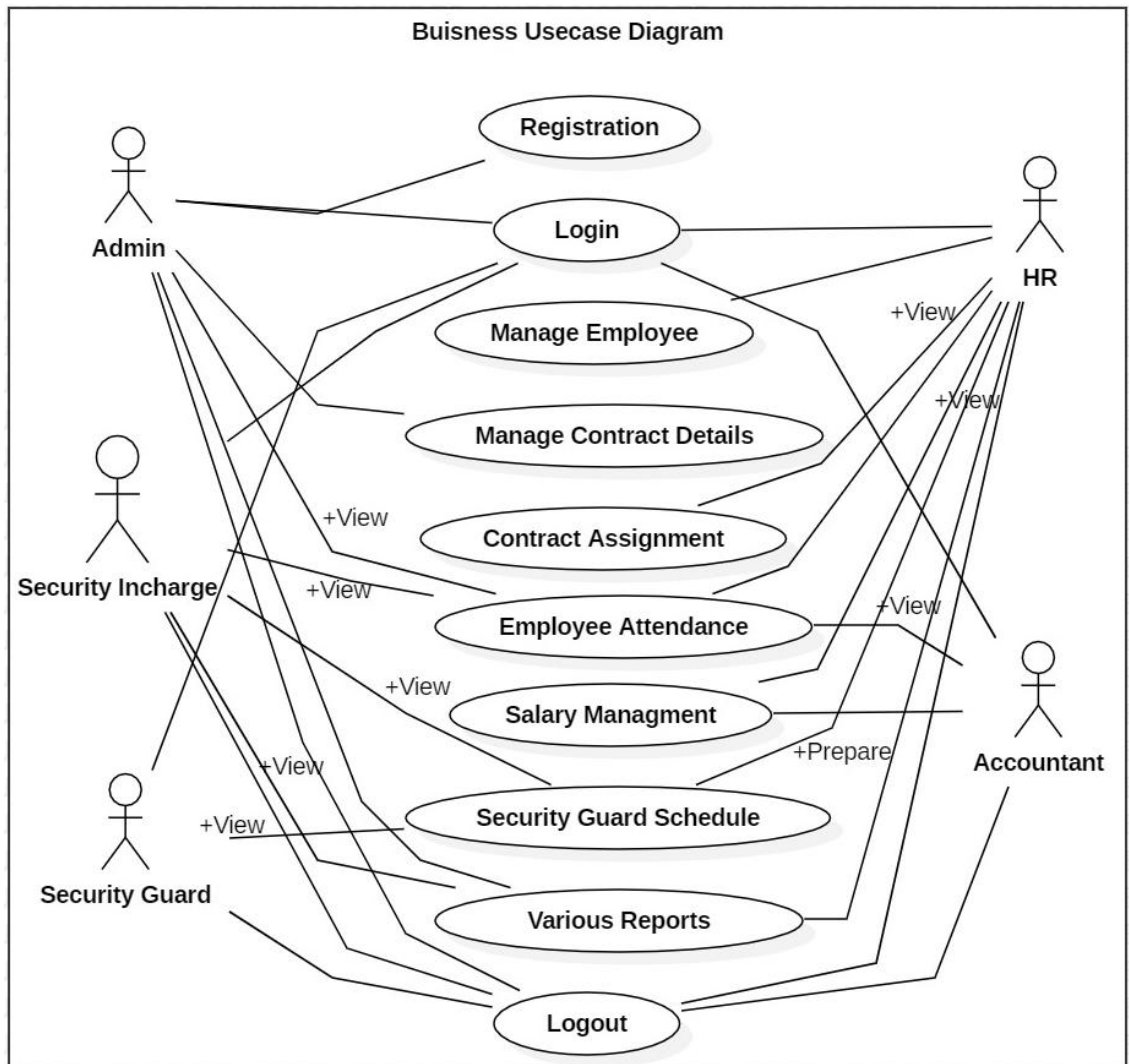
### 3.1 Object Diagram



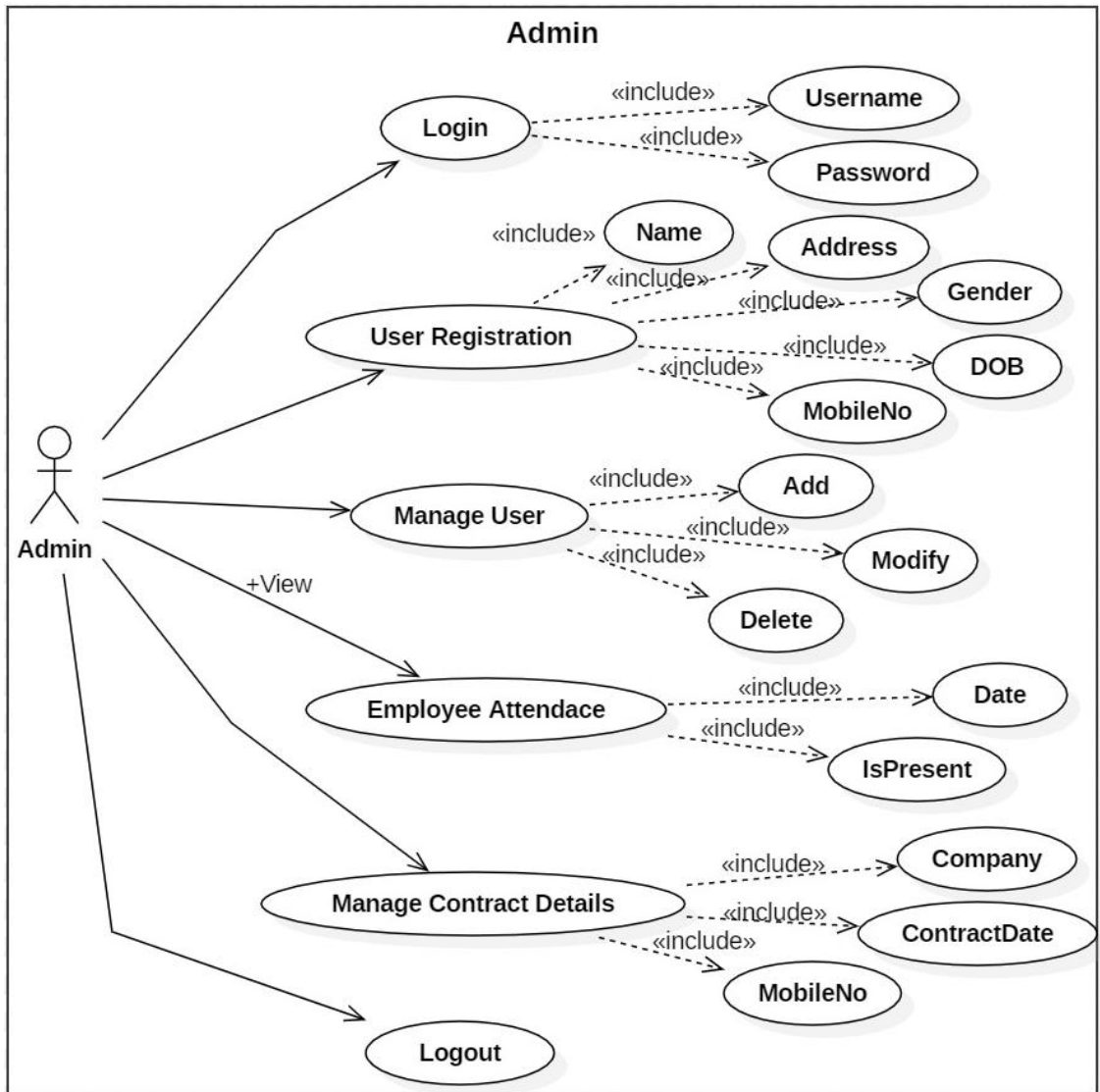
## 3.2 Class Diagram



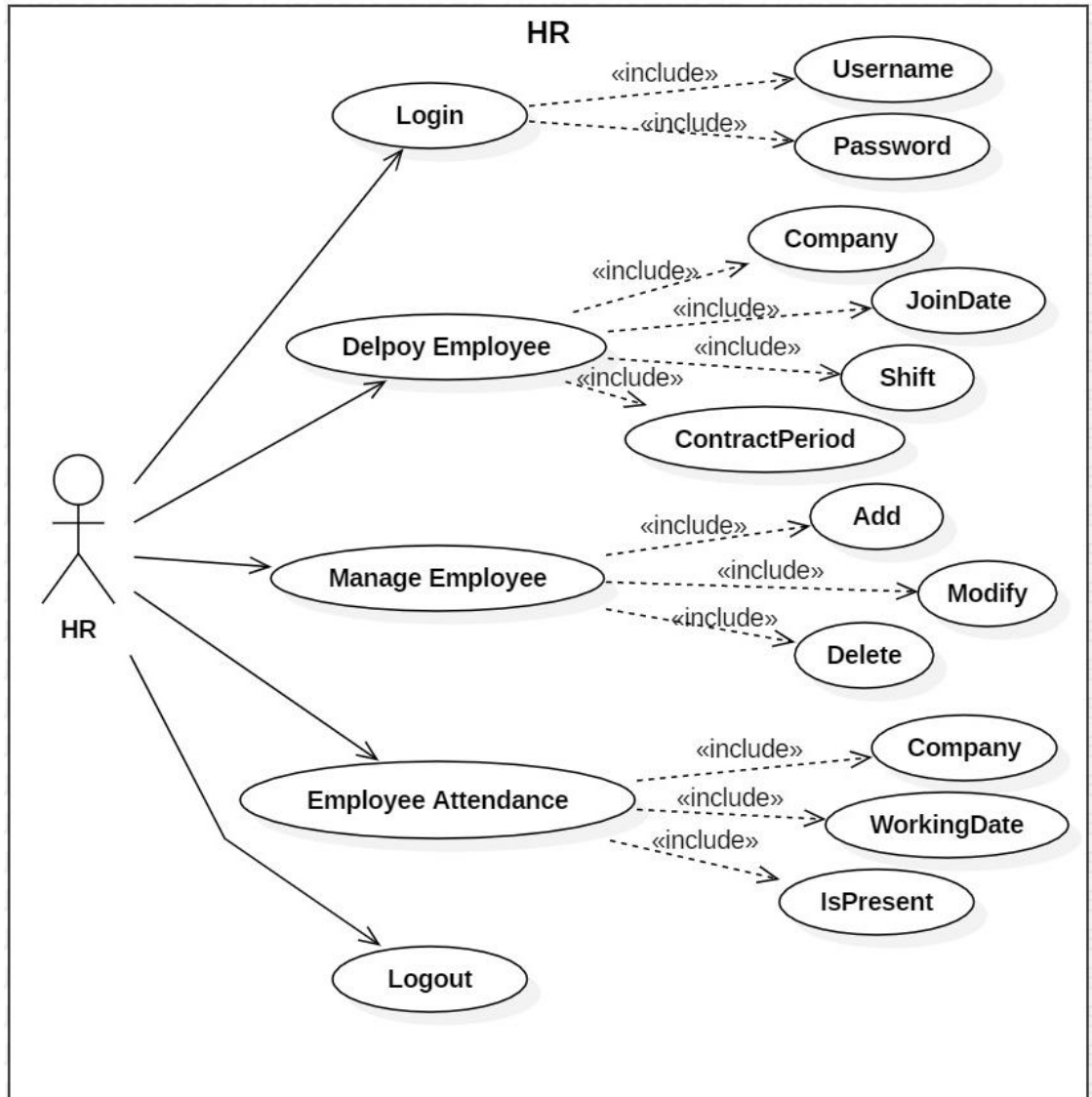
### 3.3 Use case Diagram



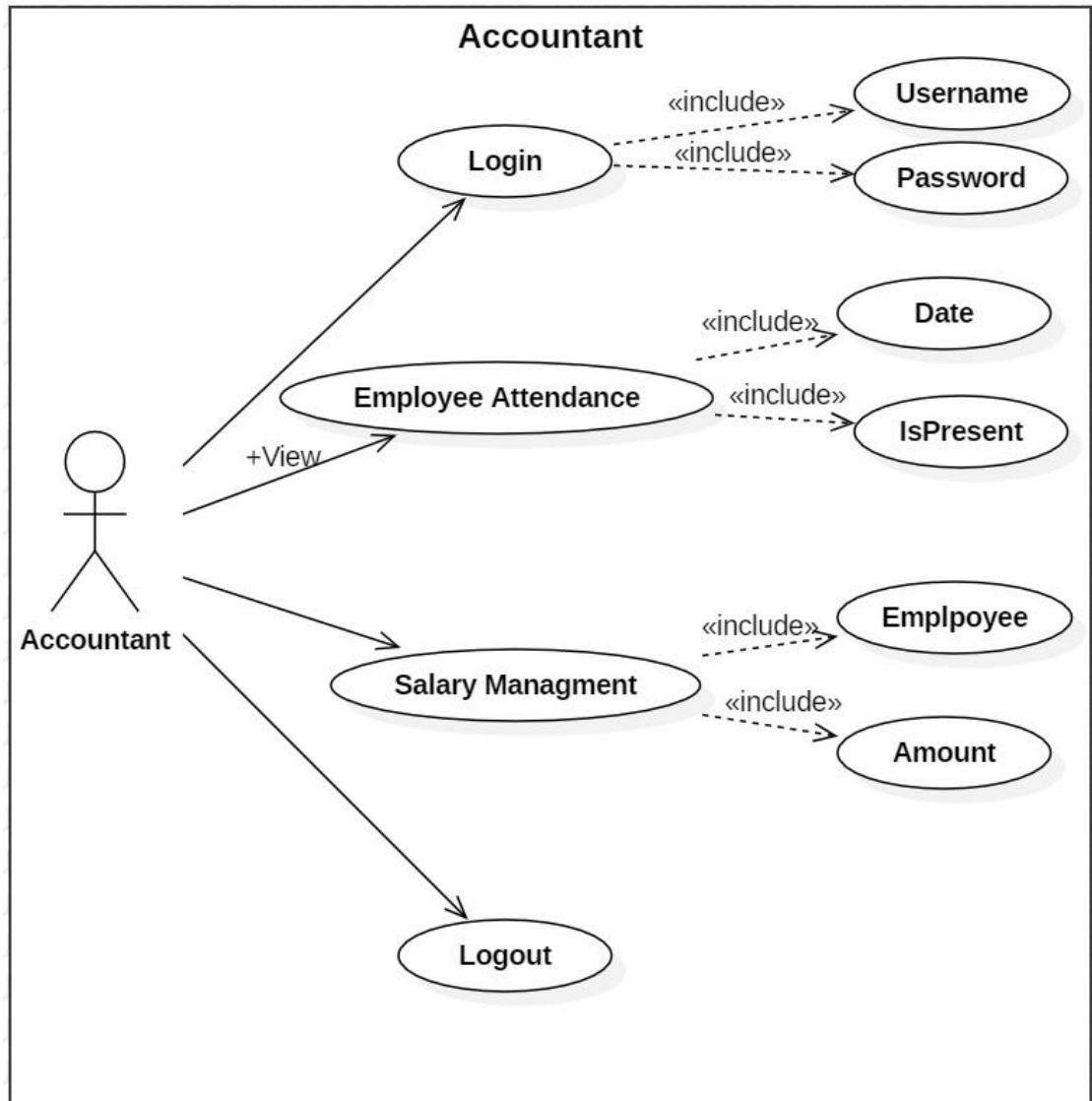
### 3.3.1 Admin



### 3.3.2 HR

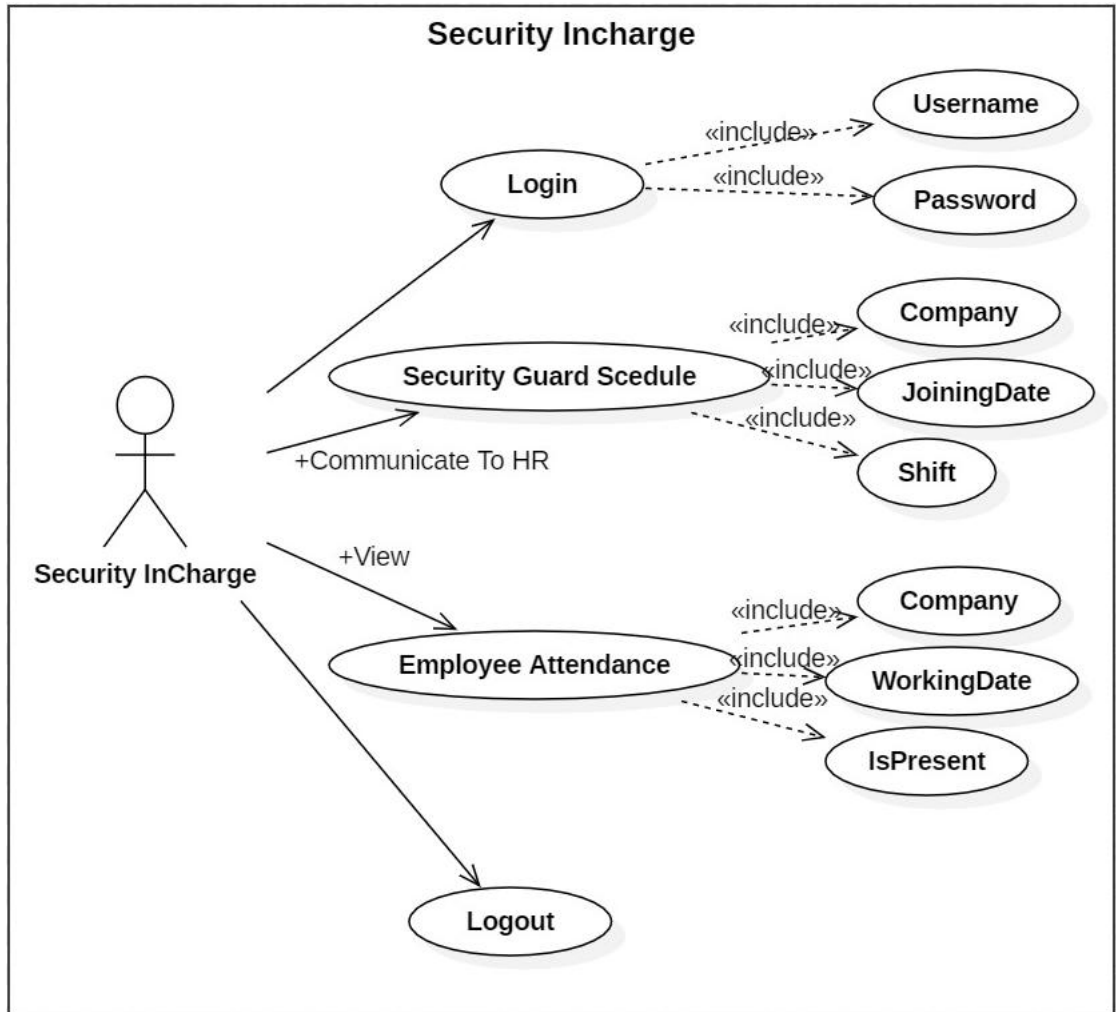


### 3.3.3 Accountant



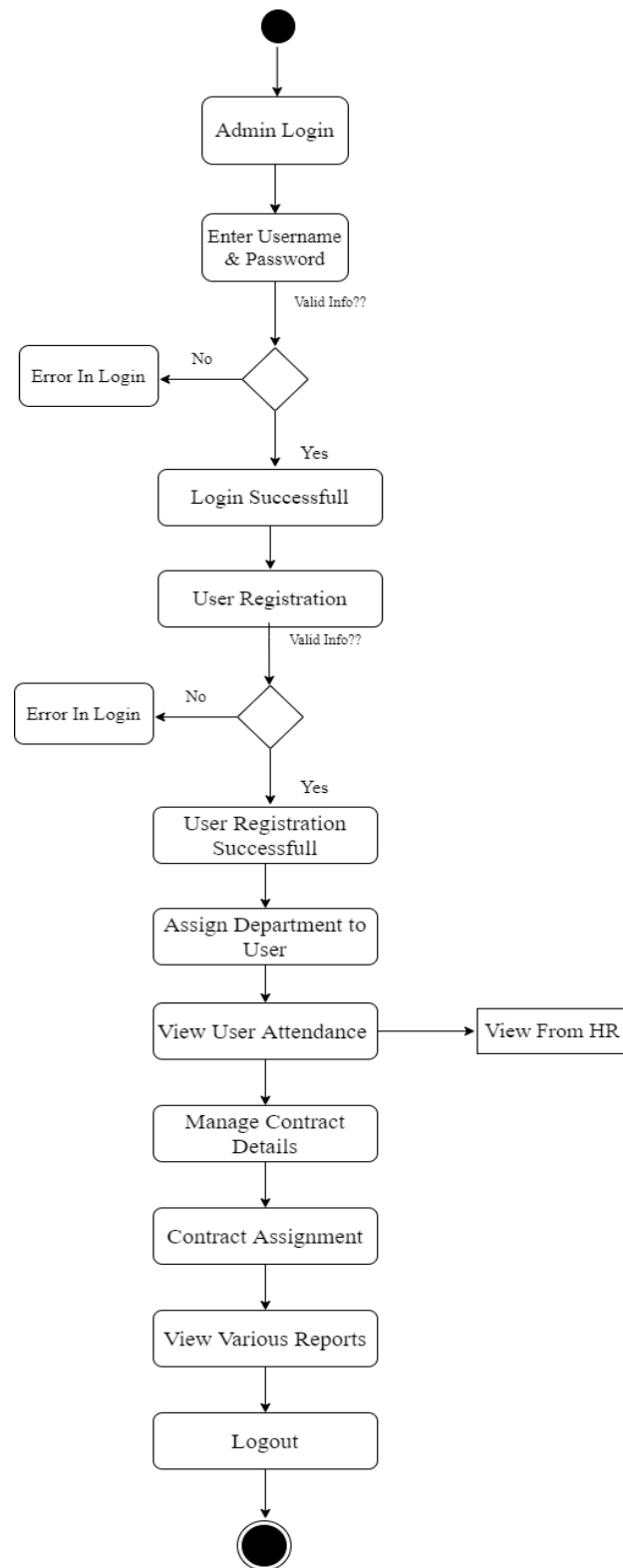


### 3.3.4 Security In-charge

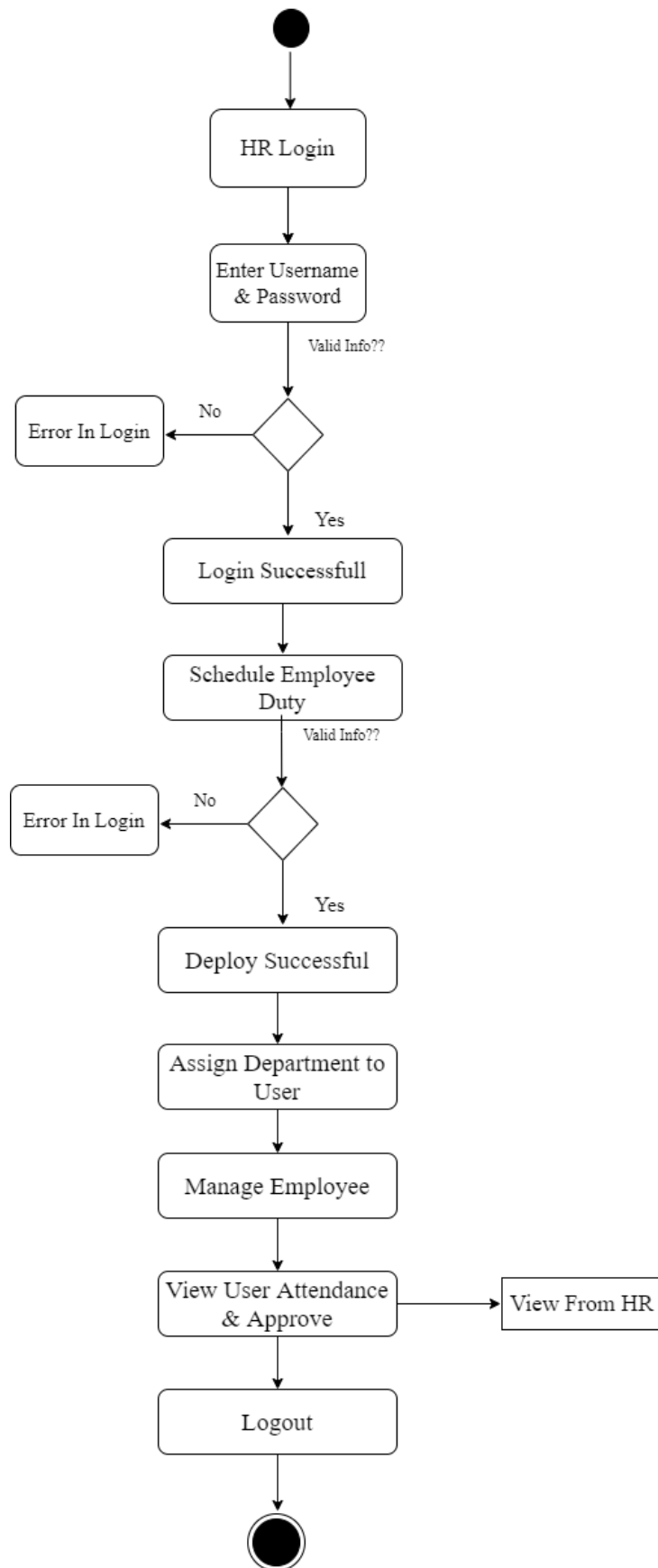


## 3.4 Activity Diagrams

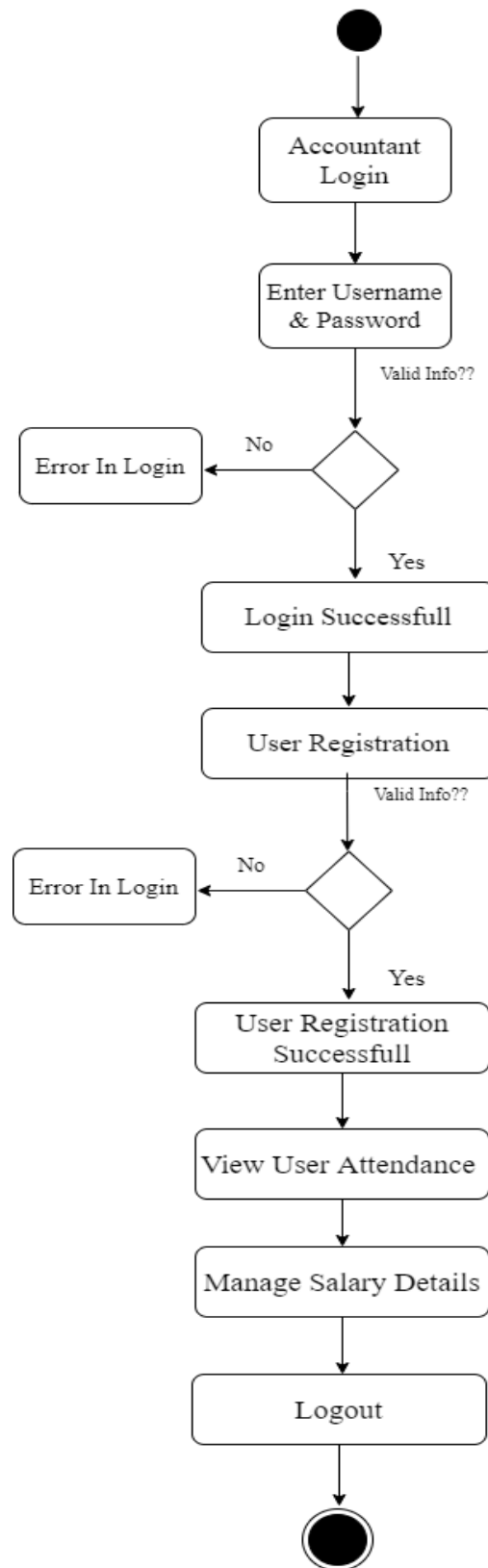
### 3.4.1 Admin



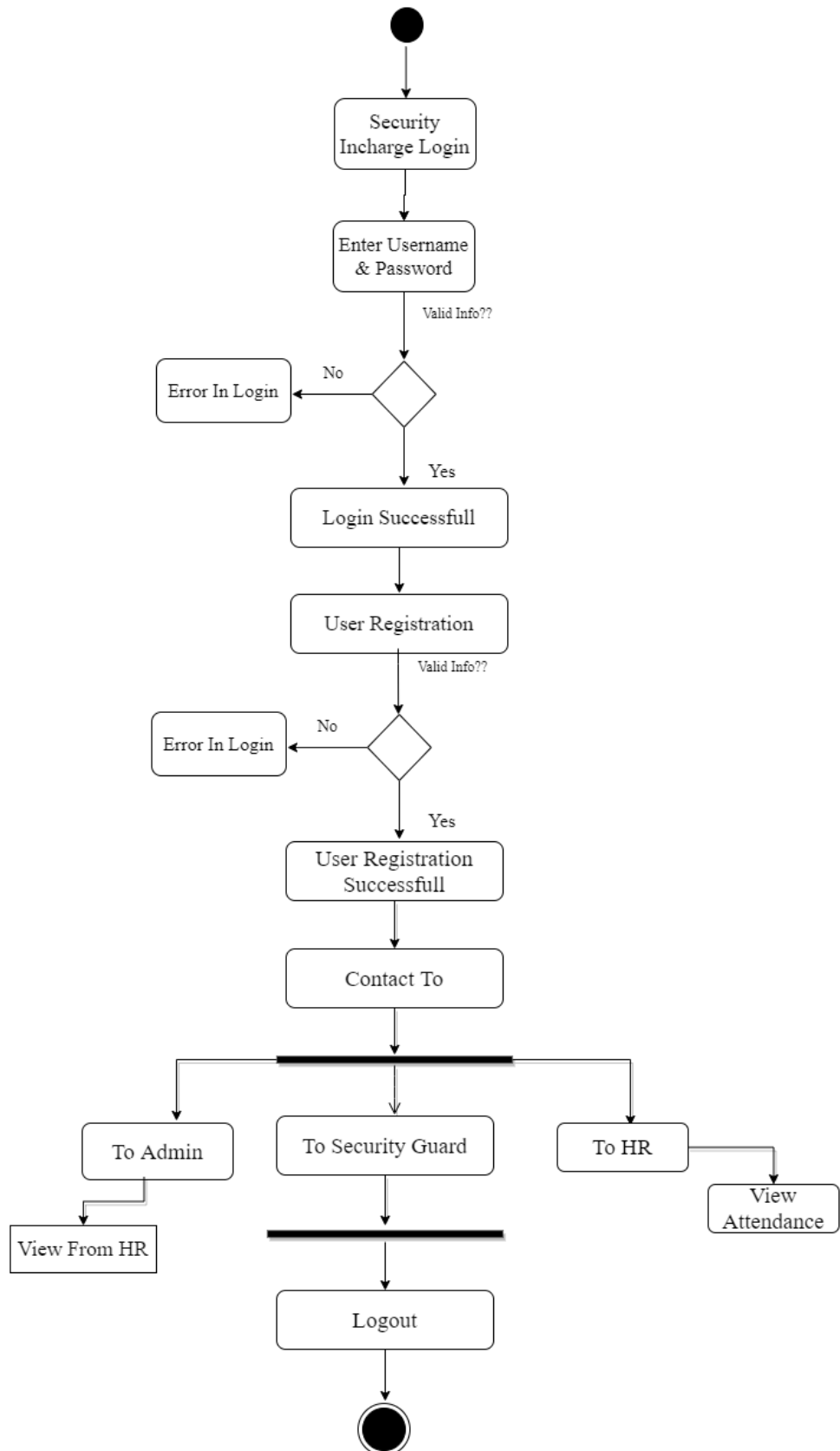
### 3.4.2 HR



### 3.4.3 Accountant

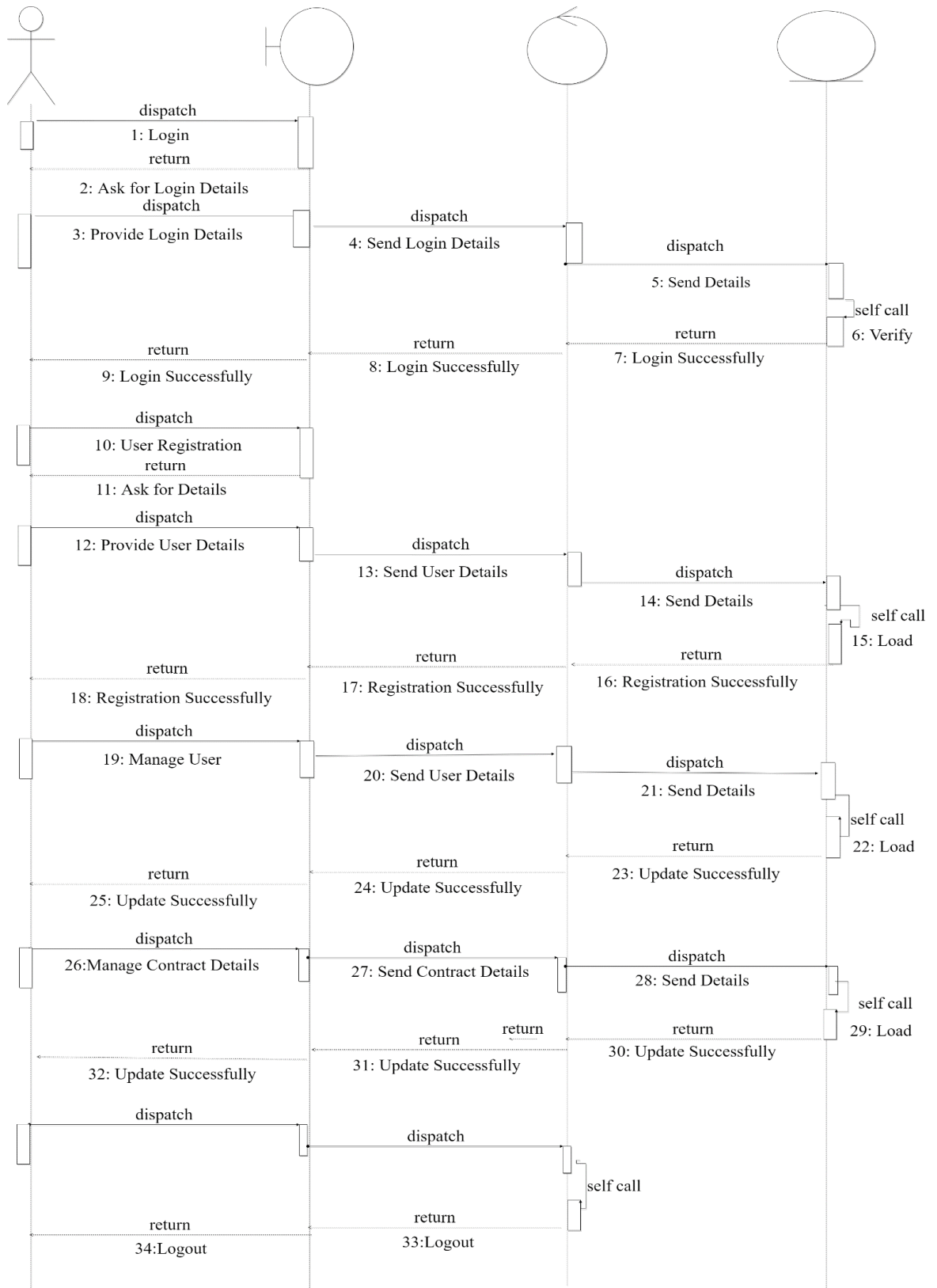


### 3.4.4 Security In charge

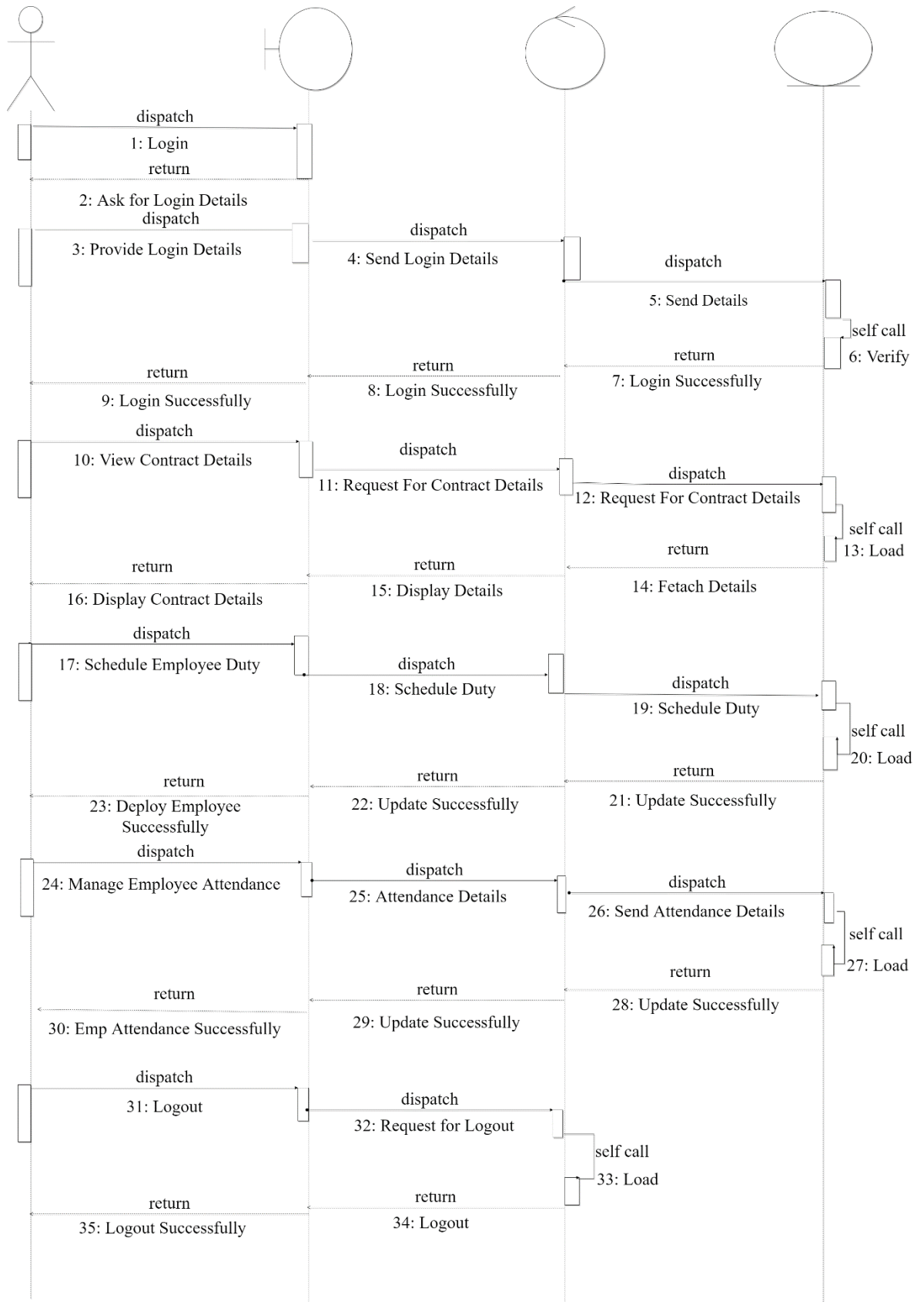


## 3.5 Sequence Diagram

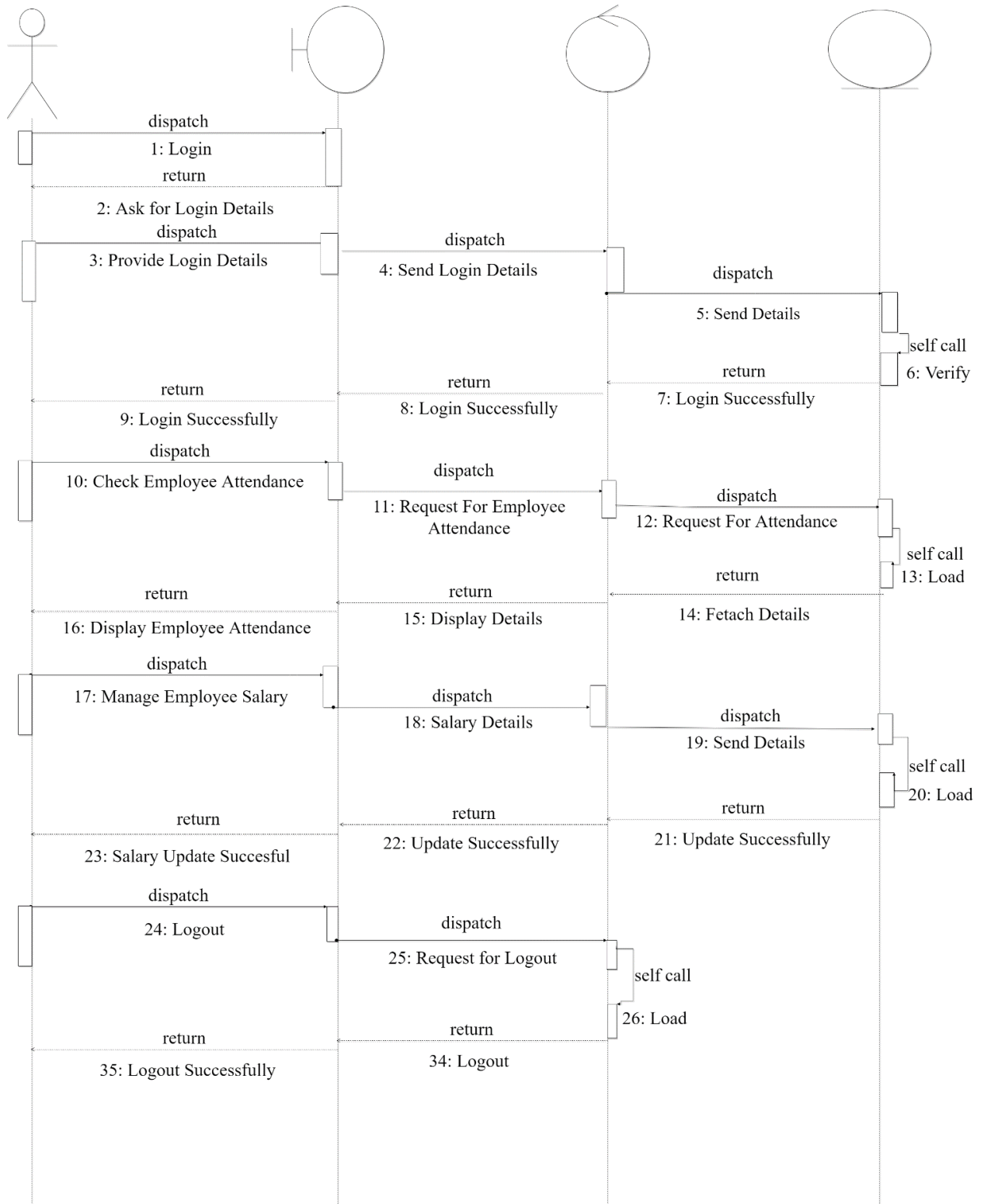
### 3.5.1 Admin



### 3.5.2 HR

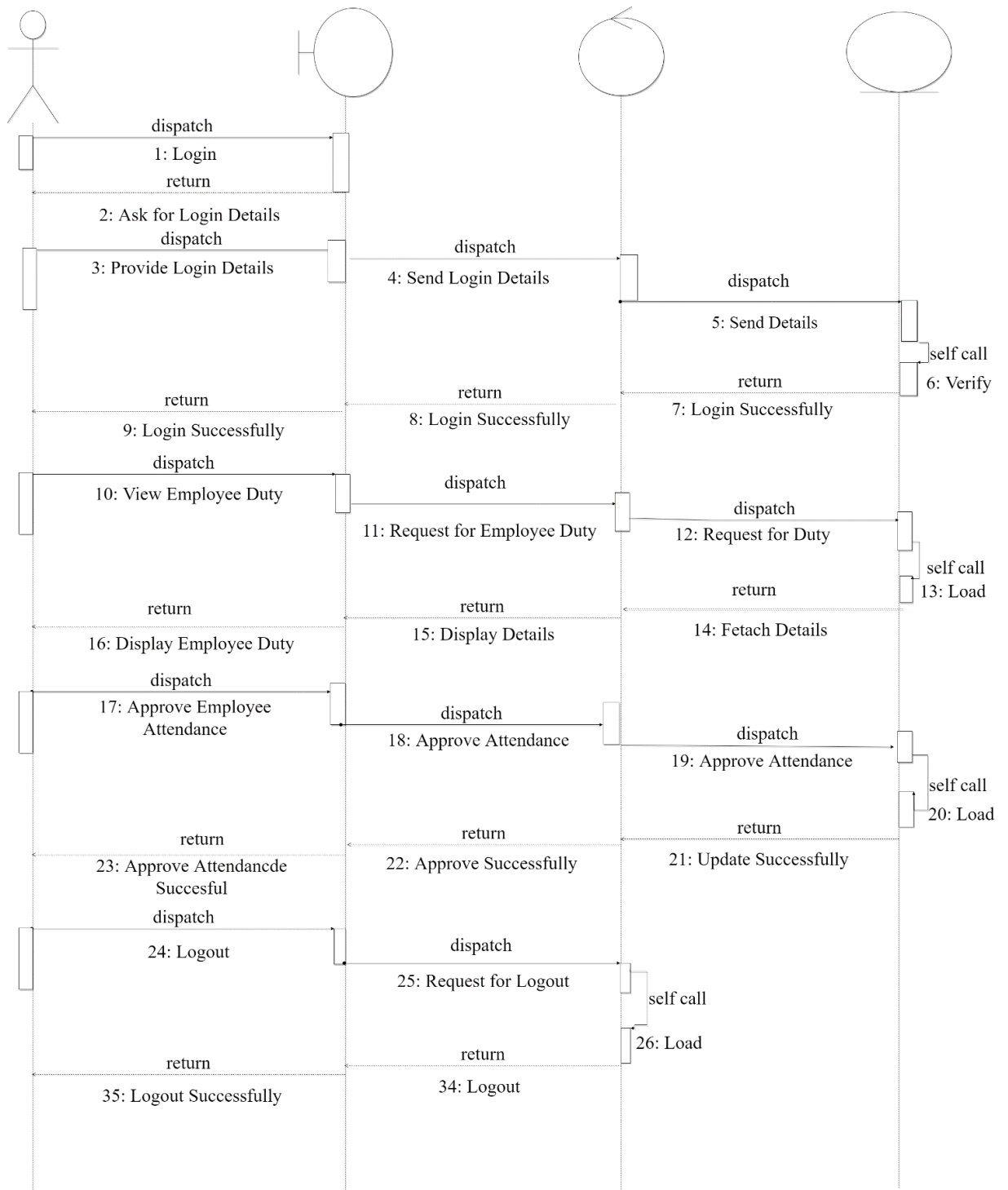


### 3.5.3 Accountant

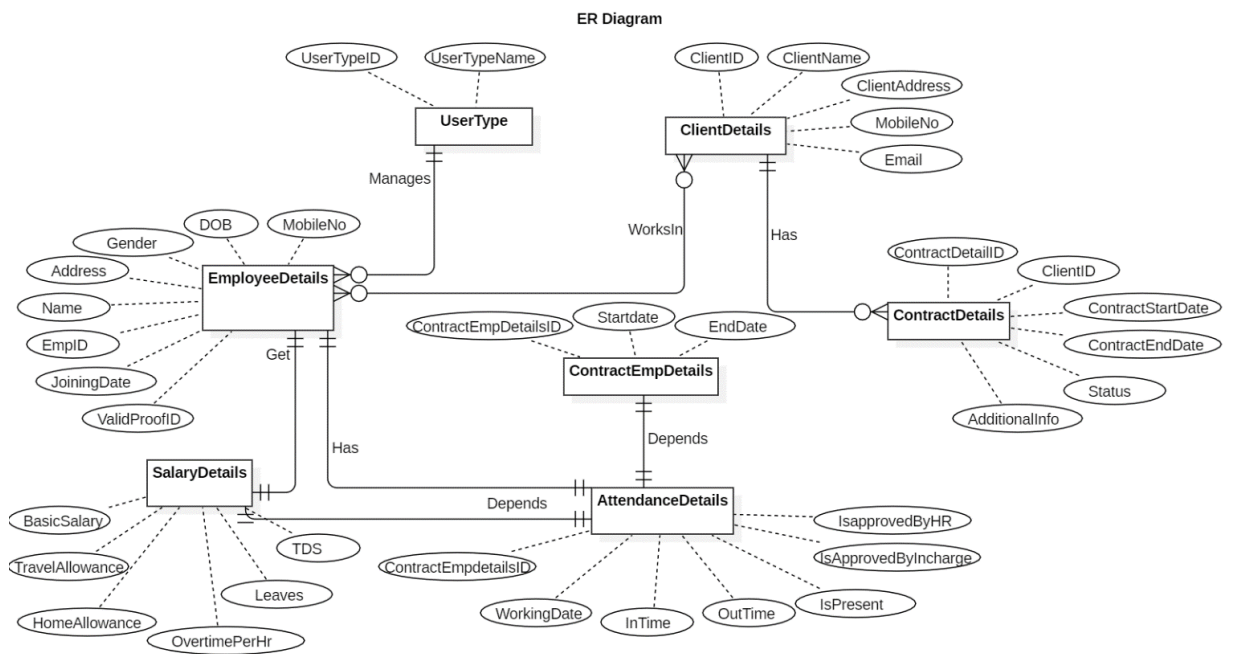




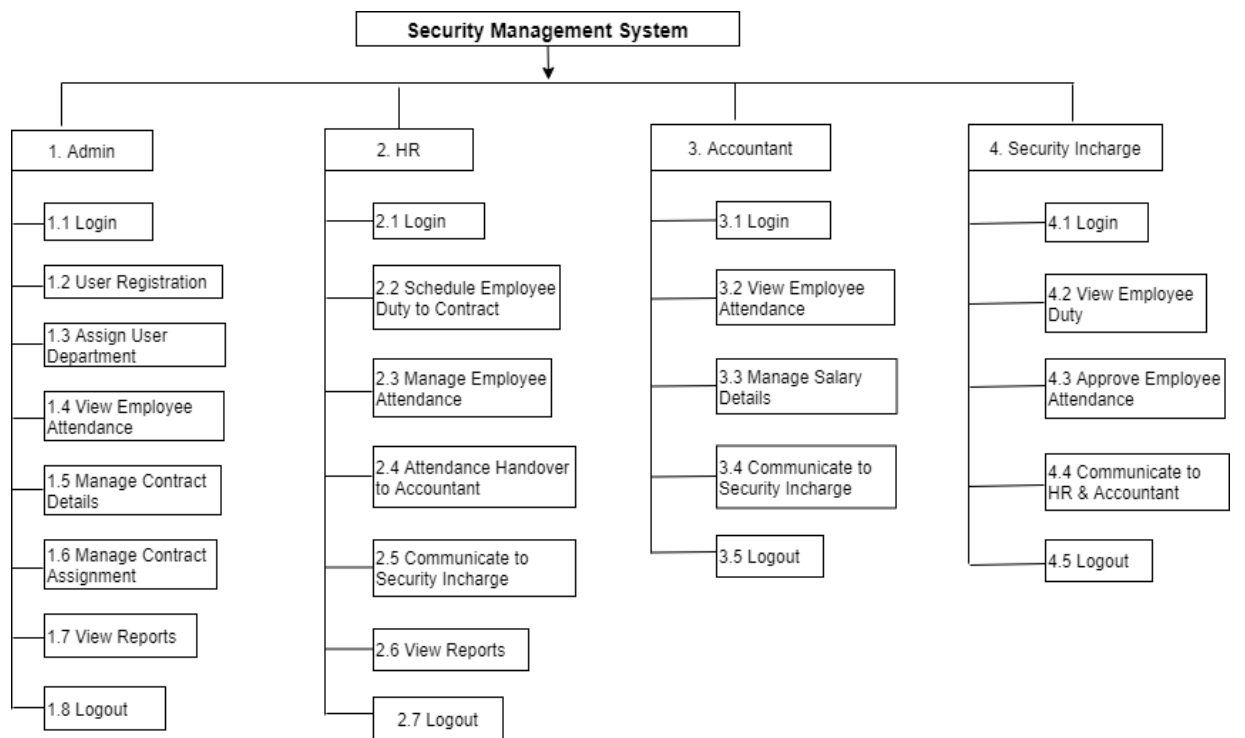
### 3.5.4 Security In charge



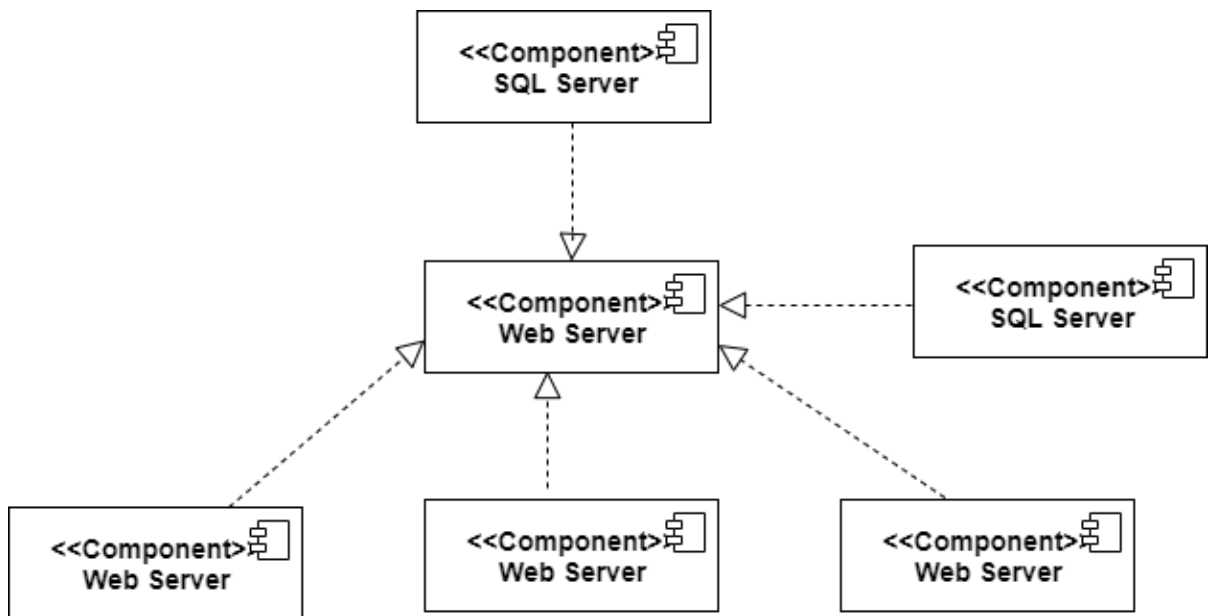
### 3.6 Entity Relationship Diagram



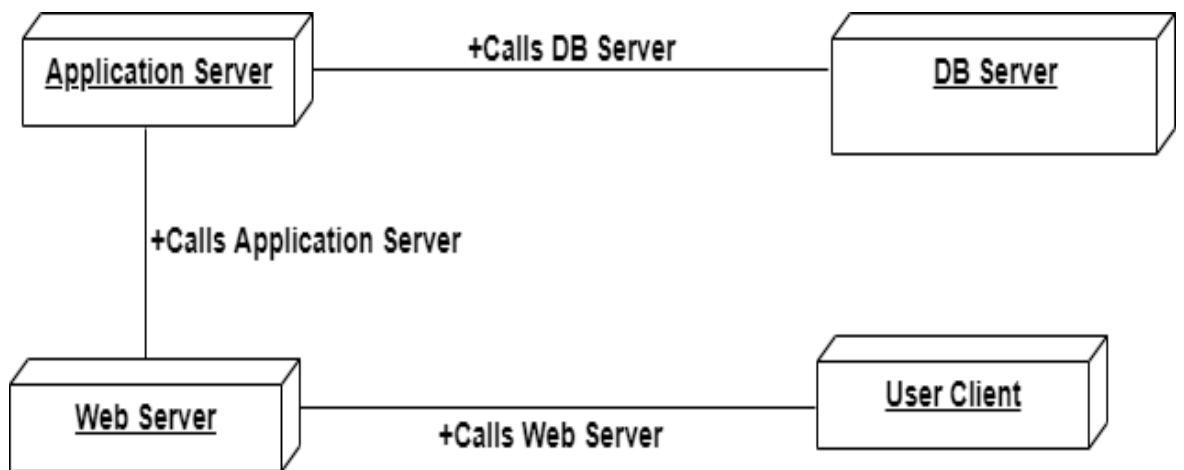
### 3.7 Module Hierarchy Diagram



### 3.8 Component Diagram



### 3.9 Deployment Diagram



### **3.10 Module Specification**

#### **a) Leave & Attendance Management:**

Leave management include all leaves types and employee leaves are managed according to that leave type. Attendance of employee will be managed in system. Leave & Attendance management will be only for security guard.

#### **b) Payroll Management:**

Payroll system is depending on attendance of attendance of employee. Salary component will be considered for salary calculation such as Basic Pay, House rent allowance, TDS, Incentives etc.

#### **c) Man Power supply Management:**

Employee (Security Guard) will be assigned to client according to his order or requirement and employee status will be updated.

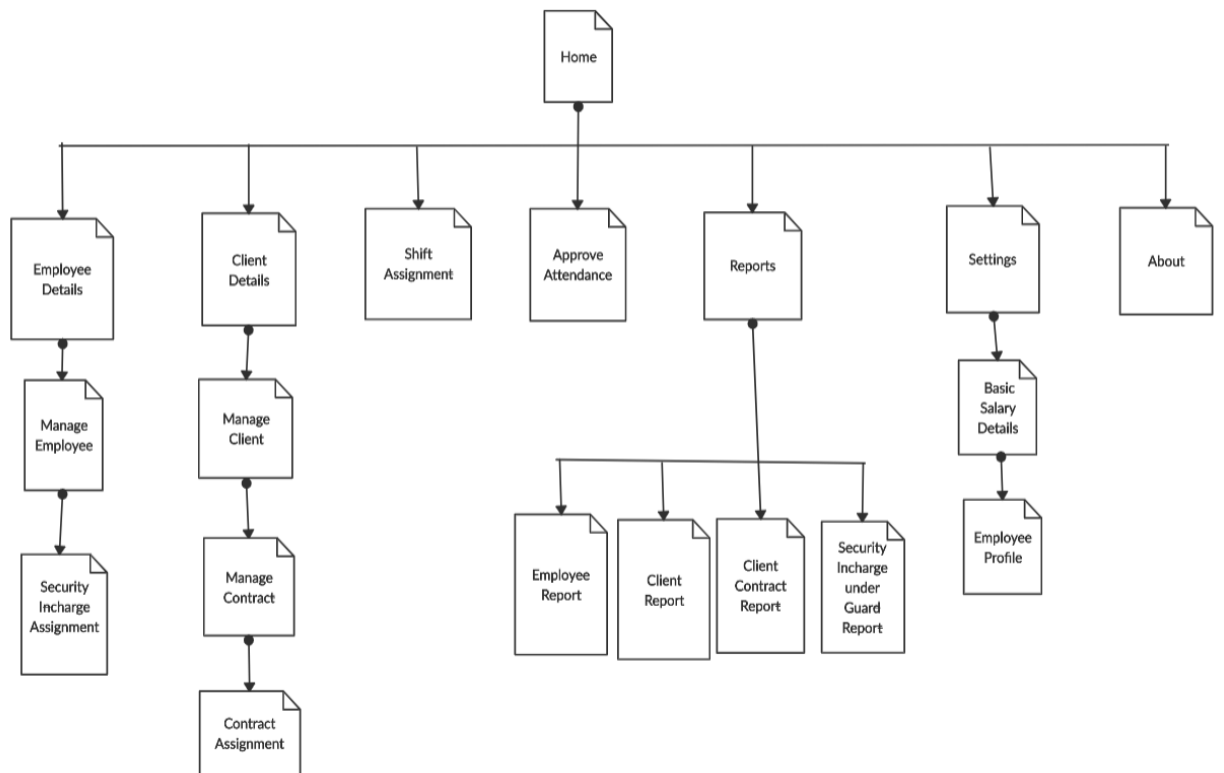
**d) Registration Management:**

Employee and client's registration is done under Registration Management.

Employee registration includes all the types of User registration For E.g. -Admin, HR, Accountant, Security in charge, Security Guard etc.

However, the Company registration and contract assigning is to be done under Client registrations.

### 3.11 Web Site Map Diagram





## 3.12 User Interface

### Login Screen

localhost:1560/Account/Login.aspx

MESIMCC Moodle IMCC's LMS Home – Dropbox

### SECURITY MANAGEMENT SYSTEM

[Log In]

Home About

#### LOG IN

Please enter your username and password. [Register](#) if you don't have an account.

Account Information

Username:

Password:

Keep me logged in

### Employee Registration

localhost:1560/EmployeeRegis.aspx

MESIMCC Moodle IMCC's LMS Home – Dropbox

### SECURITY MANAGEMENT SYSTEM

Welcome Admin !!  
[Log Out]

Home Employee Details Client Details Reports Settings About

#### EMPLOYEE REGISTRATION

Employee Name :

Gender :  Male  Female

Address :

MobileNo :

Date Of Birth :

Valid ID Proof :

Joining Date :

User Password :

UserType:

Please Collaps It... [Click](#)

Edit	Delete	Employee Name	Employee Address	Gender	Date Of Birth	Joining Date	Mobile No	Proof ID	ID Proof Type
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	Sai Kulkarni	kolhapur	F	01-08-2019	01-01-2020	9850084369	123435651111	Adhar Card
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	Admin	Admin Pune	M	07-10-2019	06-12-2019	7654320987	8776553329	Adhar Card
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	HR1	Pune	M	28-06-2019	28-01-2020	8674657546	hr11111	Adhar Card
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	Acc1	sangli	F	01-01-0001	01-01-0001	9987654432	pan123	Pan Card
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	SecurityIncharge1	Pune, 411038	M	04-02-2020	04-02-2020	9898748687	ad123	Adhar Card

## Company Details

localhost:1560/ClientDetails.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

**SECURITY MANAGEMENT SYSTEM** WelCome Admin !! [\[Log Out\]](#)

Home Employee Details Client Details Reports Settings About

### COMPANY DETAILS

Company Name :

Address :

Mobile No. :

Email ID :

Please Collaps It... [Click](#)

Edit	Delete	Company Name	Company Address	Company MobNo.	Company Email
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	C6	Mumbai	9898989898	c6@yahoo.com
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	mes	kothrud 411038	9865328542	mes@gmail.com
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	IMCC	Kothrud Pune	0998484738	info@imcc.com
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	IMCC	Kothrud Pune	0998484738	info@imcc.com
<input type="button" value="Edit"/>	<input type="button" value="Delete"/>	SBI	Kothrud Pune	8874635219	sbi@gmail.com

## Client Contract Details

localhost:1560/ContractMaintenance.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

**SECURITY MANAGEMENT SYSTEM** WelCome Admin !! [\[Log Out\]](#)

Home Employee Details Client Details Reports Settings About

### CONTRACT MAINTAINANCE

Select Company :

Start Date :

End Date :

Contract Status:

Additional Information :

Contract Start Date	Contract StarEndt Date	Contract Status	Contract Display ID
01-03-2020	30-11-2020	False	CID00007
01-01-2019	31-12-2019	True	CID00008

## Security Guard Assignment

localhost:1560/SecurityInchargeAssignment.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

### SECURITY MANAGEMENT SYSTEM

Welcome Admin !!  
[Log Out]

Home Employee Details Client Details Reports Settings About

#### SECURITY INCHARGE ASSIGNMENT

Select Security Incharge : Sai Kulkarni

Assign Employee :

Select	Security Guard Name	Employee ID	Employee ID
<input checked="" type="checkbox"/>	SecurityGuard4	SMSU00011	60
<input checked="" type="checkbox"/>	SecurityGuard5	SMSU00012	61
<input type="checkbox"/>	SG18	SMSU00033	89

Assign Cancel

## Security Guard Shift Assignment

localhost:1560/SGShiftAssignment.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

### SECURITY MANAGEMENT SYSTEM

Welcome SMSU00004 !!  
[Log Out]

Home Shift Assignment Approve Attendance Add Attendance Settings About

#### SECURITY GUARD - SHIFT ASSIGNMENT

For Contract : CID00006 :- From 01-01-2020 To 30-06-2020

Select Security Guard : SecurityGuard2

Month : May 2020

Prefered Shift : 6:00 AM To 2:00 PM

Assign

## Security Guard Check-in Check-out

localhost:1560/SGLogin.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

### SECURITY MANAGEMENT SYSTEM

WelCome SMSU00008 !!  
[\[Log Out\]](#)

Home Settings About

#### SECURITY GUARD

Shift Date :

Shift Time :

## Back Dated Attendance Entry

localhost:1560/BackDatedAttendanceEntry.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

### SECURITY MANAGEMENT SYSTEM

WelCome SMSU00004 !!  
[\[Log Out\]](#)

Home Shift Assignment Approve Attendance Add Attendance Settings About

#### ATTENDANCE ENTRY

Select Employee :

Select Date:

Check-In Time

Check-Out Time

## Approve Attendance by HR (Month wise)

localhost:1560/ApproveAttendanceByHR.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

### SECURITY MANAGEMENT SYSTEM

WelCome SMSU00002 !!  
[\[Log Out\]](#)

Home Employee Details Client Details Reports Approve Attendance Settings About

#### APPROVE ATTENDANCE

Select Employee:

Month:

## Basic Salary Details

localhost:1560/BasicSalaryAssign.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

### SECURITY MANAGEMENT SYSTEM

WelCome Admin !!  
[\[Log Out\]](#)

Home Employee Details Client Details Reports Settings About

#### BASIC SALARY ASSIGN

Select Employee:

Basic Salary:

Travel Allowance:

TDS:

Total Leaves:

Overtime Per Hour:

Home Allowance:

## Salary Details/Salary Slip

localhost:1560/SalaryDetails.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

**SECURITY MANAGEMENT SYSTEM** WelCome SMSU00003 !!  
[Log Out]

Home Settings About

**SALARY DETAILS**

Select Employee : SecurityGuard2 ▼

Select Month/Year : May ▼ 2020 ▼

Calculate Print

Salary Details			
Sr.No	Description	%	Amount
1	Basic Salary		
2	Home Allowance		
3	Travel Allowance		
4	Leaves Taken		
5	TDS		
6	OverTime		
			<i>Total</i>

## Inquiry Form

localhost:1560/About.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

**SECURITY MANAGEMENT SYSTEM** [Log In]

Home About

**About Us**

Security needs are changing and technology is altering as well alongside with them. Finding the right technology for your residence, buisness or additional wants may be difficult especially with new product being released to the market so frequently. Security Guard Management System is your solitary stop system integrator and surveillance solution provider. We present all forms of techniques to ensure your security with best solution that supply a fool resistant solution when it comes to safekeeping for your organization premises.

Inquiry Details	Contact Details
<p>Your Name <input type="text"/></p> <p>E-mail <input type="text"/></p> <p>Mobile/Phone No <input type="text"/></p> <p>Your Message <input type="text"/></p> <p>Submit</p>	<p><b>Security Guard Managment System</b></p> <p>📍 131, Right Busari Colony, Kothrud, Pune 411 038 MH INDIA</p> <p>☎ +91-020-25466271/25463453</p> <p>☎ +91-9863647488/ +91-7446459823</p> <p>✉ info@sgmspune.in</p>

### 3.13 Data Dictionary

SrNo.	Field Name	Data Type	Size	Occurrence In Table
1	AdditionalInfo	Varchar	100	
2	Address	Varchar	50	
3	BasicSalary	Int	10	
4	ClientAddress	Varchar	100	
5	ClientID	Int	10	ClientTable , ContractTable
6	ClientName	Varchar	40	
7	ContractDisplayID	Varchar	20	
8	ContractEmpDetailID	Int	10	ContractEmpDetailsTable , AttendanceTable
9	ContractEndDate	Date		
10	ContractID	Int	10	ContractTable , ContractEmpAssignTable , ContractEmpDetailTable
11	ContractStartDate	Date		
12	DateOfBirth	Date		
13	Email	Varchar	20	
14	EmpID	Int	10	EmployeeTable , ContractEmpAssignTable , ContractEmpDetailTable , SalaryDetails
15	EndDate	Date		
16	Gender	Varchar	10	
17	HomeAllowanace	Float		
18	IdProofType	Varchar	20	
19	InchargeEmpId	Int	10	InchargeEmpDetail
20	InquiryDate	Datetime		
21	InquiryEmail	Varchar	30	
22	InquiryID	Int		
23	InquiryMessage	Varchar	50	
24	InquiryMobileNo	Varchar	15	
25	InquiryName	Varchar	30	
26	InTime	Datetime		
27	IsApprovedByHR	Bit		
28	IsApprovedByIncharge	Bit		
29	IsAssigned	Bit		
30	IsPresent	Bit		
31	IsUserDeleted	Bit		
32	JoiningDate	Date		
33	Leaves	Float		
34	MobileNo	Varchar	10	

35	Name	Varchar	20	
36	OutTime	Datetime		
37	Overtime	Int		
38	OverTimePerHour	Float		
39	PhoneNo	Varchar	10	
40	ReporteeEmpId	Int	10	InchargeEmpDetail
41	ShiftID	Int	10	ShiftTable , ContractEmpDetailTable
42	ShiftTime	Varchar	10	
43	StartDate	Date		
44	Status	Bit		
45	TDS	Float		
46	TravelAllowance	Float		
47	UserLoginId	Varchar	20	
48	UserPassword	Varchar	20	
49	UserTypeDescription	Varchar	20	
50	UserTypeID	Int	10	UserType , EmployeeTable
51	ValidIDProof	Varchar	20	
52	WorkingDate	Date		



### 3.14 Table Specifications

UserType :

Field Name	Data Type	Size	Constraint
UserTypeID	Int	10	Primary Key
UserTypeDescription	Varchar	20	

ShiftTable :

Field Name	Data Type	Size	Constraint
ShiftID	Int	10	Primary Key
ShiftTime	Varchar	20	

EmployeeTable :

Field Name	Data Type	Size	Constraint
<u>EmpID</u>	<u>Int</u>	<u>10</u>	<u>Primary key</u>
<u>Name</u>	<u>Varchar</u>	<u>20</u>	
<u>Address</u>	<u>Varchar</u>	<u>50</u>	
<u>Gender</u>	<u>Varchar</u>	<u>10</u>	
<u>DateOfBirth</u>	<u>Date</u>		
<u>JoiningDate</u>	<u>Date</u>		
<u>MobileNo</u>	<u>Varchar</u>	<u>10</u>	
<u>ValidIDProof</u>	<u>Varchar</u>	<u>20</u>	
<u>UserTypeId</u>	<u>Int</u>	<u>10</u>	Foreign key
<u>UserLoginID</u>	<u>Varchar</u>	<u>20</u>	
<u>UserPassword</u>	<u>Varchar</u>	<u>20</u>	
<u>IsUserDeleted</u>	<u>Bit</u>		
<u>IdProofType</u>	<u>Varchar</u>	<u>20</u>	

EmpInchargeDetails :

Field Name	Data Type	Size	Constraint
<u>InchargeEmpID</u>	<u>Int</u>	<u>10</u>	<u>Primary Key</u>
<u>ReporteeEmpID</u>	<u>Int</u>	<u>10</u>	<u>Primary Key</u>

ContractTable :

Field Name	Data Type	Size	Constraint
<u>ContractID</u>	<u>Int</u>	<u>10</u>	<u>Primary Key</u>
<u>ClientID</u>	<u>Int</u>	<u>10</u>	<u>Foreign key</u>
<u>ContractStartDate</u>	<u>Date</u>		
<u>ContractEndDate</u>	<u>Date</u>		
<u>Status</u>	<u>Bit</u>		
<u>ContractDisplayId</u>	<u>Varchar</u>	<u>10</u>	
<u>AdditronalInfo</u>	<u>Varchar</u>	<u>100</u>	

ContractEmpDetailTable :

Field Name	Data Type	Size	Constraint
<u>ContractEmpDetailID</u>	<u>Int</u>	<u>10</u>	<u>Primary Key</u>
<u>ContractID</u>	<u>Int</u>	<u>10</u>	<u>Foreign key</u>
<u>EmpID</u>	<u>Int</u>	<u>10</u>	<u>Foreign key</u>
<u>ShiftID</u>	<u>Int</u>	<u>10</u>	<u>Foreign key</u>
<u>StartDate</u>	<u>Date</u>		
<u>EndDate</u>	<u>Date</u>		

ContractEmpAssignTable :

Field Name	Data Type	Size	Constraint
<u>ContractID</u>	<u>Int</u>	<u>10</u>	<u>Foreign key</u>
<u>EmpID</u>	<u>Int</u>	<u>10</u>	<u>Foreign key</u>
<u>IsAssigned</u>	<u>Bit</u>		

ClientTable :

Field Name	Data Type	Size	Constraint
<u>ClientID</u>	<u>Int</u>	<u>10</u>	<u>Primary Key</u>
<u>ClientName</u>	<u>Varchar</u>	<u>20</u>	
<u>ClientAddress</u>	<u>Varchar</u>	<u>50</u>	
<u>PhoneNo</u>	<u>Varchar</u>	<u>10</u>	
<u>EmailID</u>	<u>Varchar</u>	<u>20</u>	

AttendanceTable :

Field Name	Data Type	Size	Constraint
<u>ContractEmpDetailID</u>	Int	10	Foreign key
WorkingDate	Date		
InTime	Datetime		
OutTime	Datetime		
IsPresent	Bit		
IsApprovedByIncharge	Bit		
IsApprovedByHR	Bit		
Overtime	Int		

SalaryDetails :

Field Name	Data Type	Size	Constraint
EmpID	Int	10	Foreign key
BasicSalary	Int	20	
Travelallowance	Int	20	
TDS	Int	20	
Leaves	Int	10	
OvertimePerHour	Float		
HomeAllowance	Int	10	

InquiryDetails :

Field Name	Data Type	Size	Constraint
InquiryID	Int	10	Primary key
InquiryName	Varchar	30	
InquiryEmail	Varchar	30	
InquiryMobileNo	Varchar	15	
InquiryMessage	varchar	50	
InquiryDate	datetime		

### **3.15 Test Procedures and Implementation**

#### **Introduction: -**

Testing is the method of checking whether the software is performing the given task successfully as expected or not. The expected speed, performance, accuracy and expected time should be taken into consideration while testing.

A system should always be tested thoroughly before implementing it, as regards its individual programs, the system as a whole user acceptance etc. This is because implementing a new system is a major job which requires a lot of man hour and a lot of other resources, so an error not detected before implementation may cost a lot. Effective testing early in the process translate directly into long term cost savings from reduced number of errors. This is also necessary because in some cases, a small error is not detected and corrected before installation, which may explode into much larger problem.

Programming and testing is followed by the stage of installing the new system. Actual implementation of the system can begin at this point either using a parallel or a direct change over plan or some blend of two.

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. The purpose of product testing is to verify and validate the various work products viz. units, integrate units, final product to ensure that they meet their respective requirements.

## **Testing Objectives:**

The testing objectives are summarized in the following three steps:

1. Testing is a process of executing a program with the intent of finding an error.
2. A good test case is one that has a high probability of finding an as yet undiscovered error.
3. A successful test is the one that uncover an as yet undiscovered error.

Our objective is to design tests that systematically uncover different classes of errors and do so with a minimum amount of time and effort.

## **Testing Methods:**

### 1) Unit Testing:

A unit testing focuses reverification efforts on the smallest unit of software designs the module, the unit test is normally white box oriented and the step can be conducted in parallel for multiple modules. In unit testing the module interface was tested to ensure that information properly flows into and out of a program unit under test.

## 2) Integration Testing:

Although each module is verified individually, during modules testing it is important to determine if the modules are working properly when linked together. This is also referred to as integration testing or also as interfacing. In this step output is compared with the manually calculated output. This comparison gives the result of system testing. This finally ensures that the system is functioning properly.

## 3) System Testing:

It is the testing of the whole system prior to delivery. The purpose of system testing is to identify defects that will only surface when a complete system, is assembled. i.e. defects that cannot be attributed to individual components or the interaction between two components. System testing includes testing of performance, security, configuration sensitivity, start-up and recovery from failure modes. The results were satisfactory and thus the accuracy and reliability of the system is tested.

## 4) GUI Testing:

The GUI testing (Graphical User Interface) testing are important testing guidelines for specialized environments, architectures and all application that are commonly encountered by all the software engineer. As modern GUIs have same look, and feel series of standard test can be derived.

Some of the GUI standard which was verified are:

- Forms enterable and display only formats.
- Wording of alerts, error messages and help features.

Thus, through the testing, a wide range of errors were encountered which enables us to understand the system as well broadened our knowledge of [ASP.Net](#) language.

### **5) Platform testing:**

For web-application, platform testing means four main points, viz.

- Web forms display correctly on all supported browsers and supported versions of those browser.
- The web application has acceptable performance over slower forms of network connections such as Modems.

## **PREPARATION OF TEST DATA**

**Test Case:** A "Test Case" is a unit of testing activity.

### **Using Artificial Test Data:**

Artificial test data was used to test all the combination of formats and values. It was designed keeping in mind the intention that it should make possible the testing of all logic and control path through the program.

The artificial test data was prepared based on the following check:

**Range checks:** data was chosen in such a way that there were value exceeding range. outside the range and values at the boundaries.

**Field Size checks:** Data was chosen in such a way that there were value exceeding the maximum width of the field.

**Key Fields:** data was chosen so that primary key and foreign Constraints would be violated.

**Data type checks:** data was chosen in such a way that it would not match with the data types.



**1. Test cases for User [Admin/HR/Accountant/Security In charge/Security Guard]  
Login:**

<b>Test Case ID</b>	<b>Scenario to tests</b>	<b>Steps to Perform</b>	<b>Expected Result</b>	<b>Actual result</b>	<b>Pass/Fail</b>
1.1	Login into application as a member.	<ol style="list-style-type: none"> <li>1. Open the login page of the application.</li> <li>2. Enter the valid Username.</li> <li>3. Enter the valid Password.</li> <li>4. Click on sign in button.</li> </ol>	Application should accept the valid username and valid password entered by the user and should direct user to home page of the application.	Login into application is successful.	Pass.
1.2	Login into application as a member.	<ol style="list-style-type: none"> <li>1. Open the login page of the application.</li> <li>2. Enter the invalid Username.</li> <li>3. Enter the valid Password.</li> <li>4. Click on sign in button.</li> </ol>	Application should not accept the invalid username. Application should throw message "Invalid username or password." Please enter correct username or password.	Login denied with appropriate message.	Pass.
1.3	Login into application as a member.	<ol style="list-style-type: none"> <li>1. Open the login page of the application.</li> <li>2. Enter the valid Username.</li> <li>3. Enter the invalid Password.</li> <li>4. Click on sign in button.</li> </ol>	Application should not accept the invalid password. Application should throw message "Invalid username or password." Please enter correct username or password.	Login denied with appropriate message.	Pass.
1.4	Login into application as a member.	<ol style="list-style-type: none"> <li>1. Open the login page of the application.</li> <li>2. Enter the invalid Username.</li> <li>3. Enter the invalid Password.</li> <li>4. Click on sign in button.</li> </ol>	Application should not accept the invalid username & invalid password. Application should throw message "Invalid username or password." Please enter correct username or password.	Login denied with appropriate message.	Pass.

1.5	Login into application as a member.	<ol style="list-style-type: none"> <li>1. Open the login page of the application.</li> <li>2. Enter the invalid Username.</li> <li>3. Enter the invalid Password.</li> <li>4. Click on Cancel button.</li> </ol>	After clicking the cancel button, previously entered values for username & password should be deleted from the field and the cursor should be automatically placed in the username field.	Login denied with appropriate message.	Pass.
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## 2. Test case Name: Employee Registration

Test Case ID	Scenario to tests	Steps to Perform	Expected Result	Actual result	Pass/Fail
2.1	Registration for User Membership	<ol style="list-style-type: none"> <li>1. Click the employee or client menu of the application.</li> <li>2. Click the register employee or client tab.</li> <li>3. Enter all valid details.</li> <li>4. Click on the submit button.</li> </ol>	Member must be created in the system. System should send acknowledgement to the user.	Member gets created in the system. System send acknowledgement to the user.	Pass.
2.2	Registration for Membership	<ol style="list-style-type: none"> <li>1. Click the employee or client menu of the application.</li> <li>2. Click the register employee or client tab.</li> <li>3. Enter invalid details.</li> <li>4. Click on the submit button.</li> </ol>	Validation error should be displayed. And registration page should be reloaded.	System throws error message.	Pass.
2.3	Keep all fields blank and try to register.	<ol style="list-style-type: none"> <li>1. Click the employee or client menu of the application.</li> <li>2. Click the register employee tab.</li> </ol>	System throws error message.	System throws error message.	Pass.

		<p>3. Keep all fields blank.</p> <p>4. Click on the submit button.</p>			
2.4	Kept name textbox blank in employee or client menu.	<p>1. Click the employee menu of the application.</p> <p>2. Click the register employee tab.</p> <p>3. Keep employee name textbox field blank.</p> <p>4. Click on the submit button.</p>	System throws error message.	System throws error message.	Pass.
2.5	Mobile field Blank in employee or client menu or mobile no start other than digits.	<p>1. Click the employee menu of the application.</p> <p>2. Click the register employee tab.</p> <p>3. Keep mobile no field blank and mobile no start other than digits.</p> <p>4. Click on the submit button.</p>	System throws error message.	System throws error message.	Pass.
2.6	Radio button not checked and try to register in employee menu	<p>1. Click the employee menu of the application.</p> <p>2. Click the register employee tab.</p> <p>3. Radio button not checked.</p> <p>4. Click on the submit button.</p>	System throws error message.	System throws error message.	Pass.
2.7	DOB kept blank or entered invalid date.	<p>1. Click the employee menu of the application.</p> <p>2. Click the register employee tab.</p> <p>3. DOB field blank or entered invalid date.</p> <p>4. Click on the submit button.</p>	System display the message invalid date.	System display the message invalid date.	Pass.

### 3. Test case for Save, Edit & Delete Button:

<b>Test Case ID</b>	<b>Scenario to tests</b>	<b>Steps to Perform</b>	<b>Expected Result</b>	<b>Actual result</b>	<b>Pass/Fail</b>
3.1	Click on Save button	<ol style="list-style-type: none"> <li>1. Click the employee or client menu of the application.</li> <li>2. Click the register employee or client tab.</li> <li>3. Enter all valid details.</li> <li>4. Click on the submit button.</li> </ol>	Will Show message success.	Will Show message success.	Pass.
3.2	If click on Edit.	<ol style="list-style-type: none"> <li>1. Click the employee or client menu of the application.</li> <li>2. Click the manage employee or client tab.</li> <li>3. Update any information.</li> <li>4. Click on the Edit button.</li> </ol>	Will edit all the fields or selected field.	Edit all the fields or selected fields.	Pass.
3.3	If click on Delete	<ol style="list-style-type: none"> <li>1. Click the employee or client menu of the application.</li> <li>2. Click the manage employee or client tab.</li> <li>3. Delete any information.</li> <li>4. Click on the Delete button.</li> </ol>	Will delete all the fields or selected field.	Delete all the fields or selected fields.	Pass.

#### 4. Test case for User Module:

<b>Test Case ID</b>	<b>Scenario to tests</b>	<b>Steps to Perform</b>	<b>Expected Result</b>	<b>Actual result</b>	<b>Pass/ Fail</b>
4.1	User Module – Admin	<ol style="list-style-type: none"> <li>1. Admin will handle all the registration of HR, Accountant, Security in charge, Security guard.</li> <li>2. Admin will also handle Client registration.</li> <li>3. Admin will handle all system.</li> </ol>	Should be valid.	As expected.	Pass.
4.2	User Module – HR	<ol style="list-style-type: none"> <li>1. HR will handle all the registration of Security in charge, Security guard.</li> <li>2. HR will handle client contract.</li> <li>3. HR will also approve security guard attendance.</li> </ol>	Should be valid.	As expected.	Pass.
4.3	User Module – Accountant	<ol style="list-style-type: none"> <li>1. Accountant will handle salary slip for employee (only security guard)</li> </ol>	Should be valid.	As expected.	Pass.

**CHAPTER 4**  
**USER MANUAL**

## 4.1 User Manual

The main objective of this project for Administrator is to set various master data (e.g. Department, Designation, Employee Details, Client Details etc.). For the system which

will be the prerequisite data to run system appropriately. For HR the main objective is to

approve the leave by viewing employee leave application. HR & Accountant do the employee

Deployment and salary management.

There are mainly 3 users for the system:

- 1) Admin
- 2) HR
- 3) Accountant

### **For Admin**

The various functions are as follows:

- Login
  
- Manage User Registration

Add, Edit, Delete User

- Manage User Department
  - Add, Delete Department
- Manage Designation
- Manage Salary component and Setting
- Manage Client Details
  - Add, Edit, Delete Client
- Logout

### **For HR**

The various functions are as follows:

- Login
- Manage Employee
  - Edit, Delete Employee
- Manage Employee Deployment
  - Add, Edit, Delete Deployment
- Leave approval of Employee



- Manage Attendance Details
- Logout

### **For Accountant**

The various functions are as follows:

- Login
- Do Salary processing and pay slip is generated
- Logout

## 4.2 Operations Manual / Menu Explanation

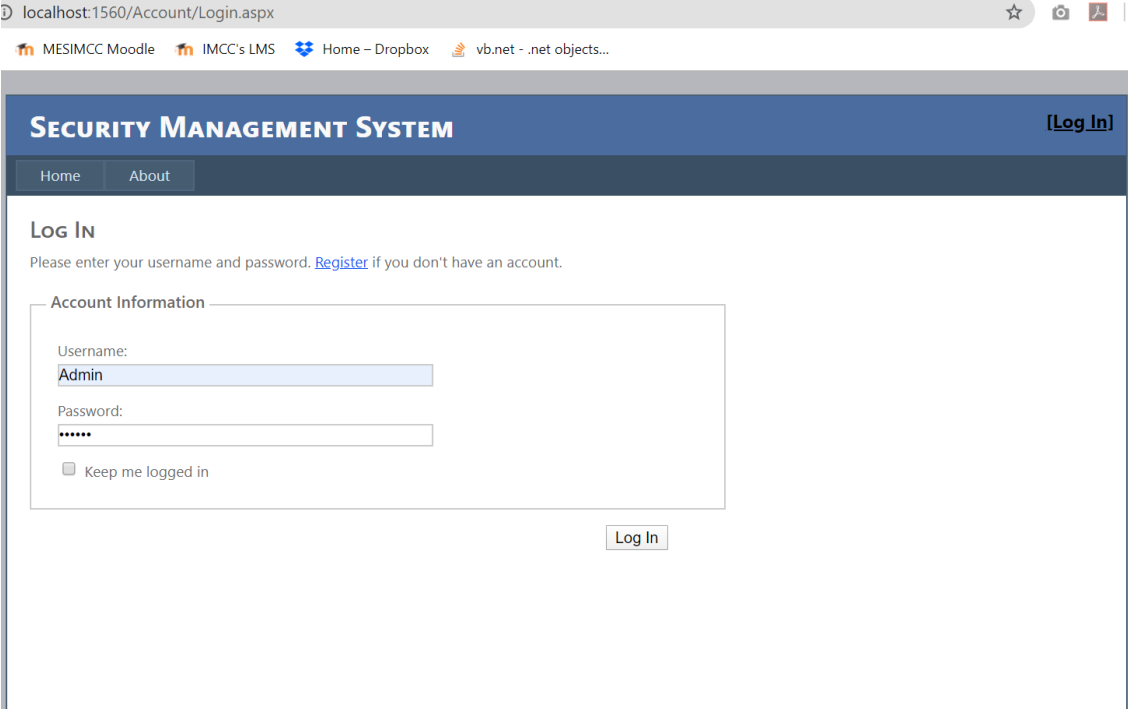
### ❖ User Manual for Admin:

Login by Admin:

1. Enter the Username

2. Enter Password

3. By clicking Login button, it will check user is valid or not and valid user redirect to the Admin Homepage.



The screenshot shows a web browser window with the address bar displaying 'localhost:1560/Account/Login.aspx'. The browser tabs include 'MESIMCC Moodle', 'IMCC's LMS', 'Home - Dropbox', and 'vb.net - .net objects...'. The page title is 'SECURITY MANAGEMENT SYSTEM' and there is a '[Log In]' link in the top right corner. Below the title bar, there are navigation links for 'Home' and 'About'. The main content area is titled 'LOG IN' and contains the text 'Please enter your username and password. [Register](#) if you don't have an account.' Below this is a form titled 'Account Information' with two input fields: 'Username:' containing 'Admin' and 'Password:' containing six dots. There is also a checkbox labeled 'Keep me logged in' which is unchecked. A 'Log In' button is located at the bottom right of the form.

Admin will see following menu when successfully logged in as Admin:

- Employee Details
- Client Details
- Settings
- Reports



Select the Manage Employee menu item in Employee Details tab for all employee registration:

Please Collaps It... [Click](#)

Edit	Delete	Employee Name	Employee Address	Gender	Date Of Birth	Joing Date	Mobile No	Proof ID	ID Proof Type
<a href="#">Edit</a>	<a href="#">Delete</a>	Sai Kulkarni	kolhapur	F	01-08-2019	01-01-2020	9850084369	123435651111	Adhar Card
<a href="#">Edit</a>	<a href="#">Delete</a>	Admin	Admin Pune	M	07-10-2019	06-12-2019	7654320987	8776553329	Adhar Card
<a href="#">Edit</a>	<a href="#">Delete</a>	HR1	Pune	M	28-06-2019	28-01-2020	8674657546	hr11111	Adhar Card
<a href="#">Edit</a>	<a href="#">Delete</a>	Acc1	sangli	F	01-01-0001	01-01-0001	9987654432	pan123	Pan Card
<a href="#">Edit</a>	<a href="#">Delete</a>	SecurityIncharge1	Pune, 411038	M	04-02-2020	04-02-2020	9898748687	ad123	Adhar Card

1. In this Employee form admin will register all types of user like HR, Accountant, Security In charge, Security Guard. Admin will also provide the Password for each new user.

2. Fill the details and click on Submit button. For view the data click on Please Expand Click button. All fields are mandatory.

Select the Manage Client menu item in Company Details tab for all employee

Registration:

The screenshot shows a web browser window with the URL localhost:50492/ClientDetails.aspx. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "Admin !!". The navigation menu includes Home, Employee Details, Client Details, Reports, Settings, and About. The "COMPANY DETAILS" form contains the following fields:

- Company Name : imcc
- Address : Kothrud Pune
- Mobile No. : 9868753786
- Email ID : imcc@gmail.com

Buttons for "Submit" and "Cancel" are located below the form. Below the form, there is a link "Please Collaps It... Click" and a table of existing companies:

Edit	Delete	Company Name	Company Address	Company MobNo.	Company Email
Edit	Delete	C6	Mumbai	9898989898	c6@yahoo.com
Edit	Delete	mes	kothrud 411038	9865328542	mes@gmail.com
Edit	Delete	IMCC	Kothrud Pune	0998484738	info@imcc.com
Edit	Delete	IMCC	Kothrud Pune	0998484738	info@imcc.com
Edit	Delete	SBI	Kothrud Pune	8874635219	sbi@gmail.com
Edit	Delete	c4	Sangli	8766564542	c4@gmail.com

1. Fill the details and click on Submit button. For view the data click on Please Expand Click button. All fields are mandatory.

❖ User Manual for HR:

Login by HR:

1. Enter the Username
2. Enter Password
3. By clicking Login button, it will check user is valid or not and valid user redirect to the HR Homepage.

localhost:51423/Account/Login.aspx

MESIMCC Moodle

**SECURITY MANAGEMENT SYSTEM** [Log In]

Home About

**LOG IN**

Please enter your username and password. [Register](#) if you don't have an account.

Account Information

Username:  
SMSU00002

Password:  
\*\*\*

Keep me logged in

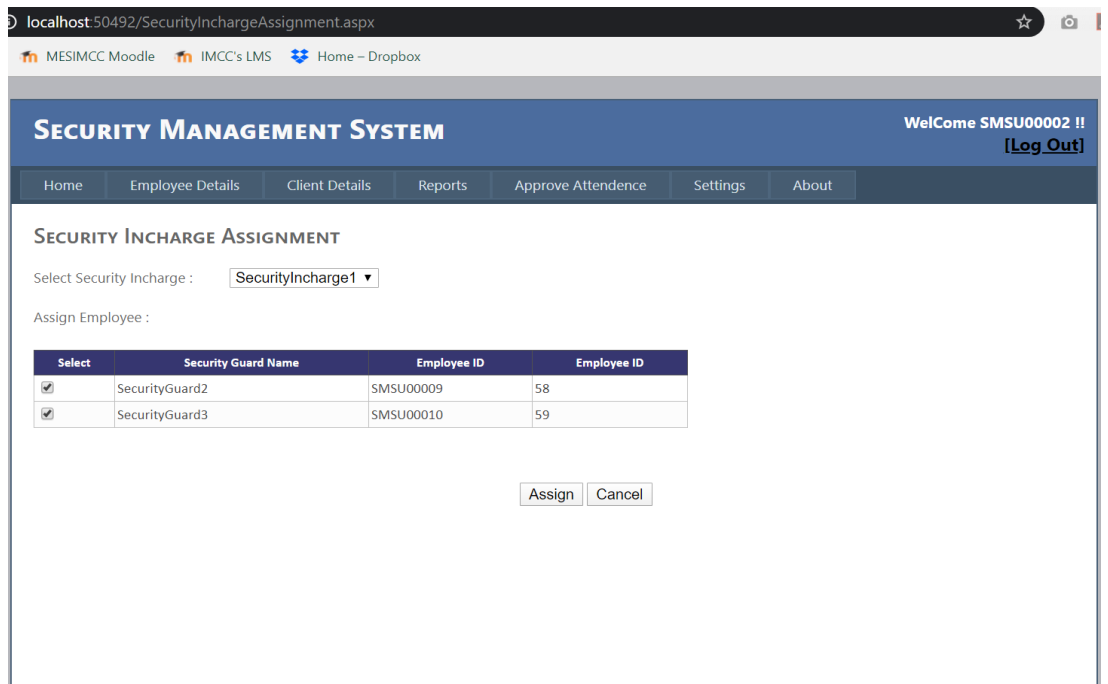
Log In

HR will see following menu when successfully logged in as Admin:

- Employee Details
- Client Details
- Reports
- Approve Attendance
- Setting



After login, HR assigns a security guard under the security in charge:



HR will deploy the employee to the specific contract:

The screenshot shows a web browser window with the URL localhost:50492/ContractAssignment.aspx. The page title is 'SECURITY MANAGEMENT SYSTEM' and the user is logged in as 'SMSU00002 !!'. The navigation menu includes Home, Employee Details, Client Details, Reports, Approve Attendance, Settings, and About. The main content area is titled 'CONTRACT ASSIGNMENT' and contains the following form elements:

- Select Company: IMCC
- Select Contract: CID00008, Start Date: 01-01-2019, End Date: 31-12-2019
- Select Security Incharge: SecurityIncharge1

Security Guard Name	Employee ID	Employee ID
SecurityGuard2	SMSU00009	58
SecurityGuard3	SMSU00010	59

An 'Assign' button is located at the bottom right of the form.

HR will approve the attendance only for security guard who's already approved by Security In charge.

The screenshot shows a web browser window with the URL localhost:50492/ApproveAttendanceByHR.aspx. The page title is 'SECURITY MANAGEMENT SYSTEM' and the user is logged in as 'SMSU00002 !!'. The navigation menu includes Home, Employee Details, Client Details, Reports, Approve Attendance, Settings, and About. The main content area is titled 'APPROVE ATTENDANCE' and contains the following form elements:

- Select Employee: SecurityGuard2
- Month: April, 2020

An 'Approve' button is located at the bottom right of the form.

❖ User Manual for Accountant:

Login by Accountant:

1. Enter the Username
2. Enter Password
3. By clicking Login button, it will check user is valid or not and valid user redirect to the Accountant Homepage.

The screenshot shows a web browser window with the address bar displaying 'localhost:51423/Account/Login.aspx'. The page title is 'MESIMCC Moodle'. The main content area has a blue header with 'SECURITY MANAGEMENT SYSTEM' and a '[Log In]' link. Below the header is a navigation menu with 'Home' and 'About'. The main section is titled 'LOG IN' and contains the text 'Please enter your username and password. [Register](#) if you don't have an account.' Below this is a form titled 'Account Information' with two input fields: 'Username:' containing 'SMSU00003' and 'Password:' containing masked characters. There is also a checkbox labeled 'Keep me logged in'. A 'Log In' button is positioned at the bottom right of the form.

Accountant will see following menu when successfully logged in as Admin:

- Salary Details
- Settings



Accountant calculates the salary according to the attendance of security

Guards and display salary slip:

The screenshot shows a web browser window with the URL localhost:50492/SalaryDetails.aspx. The page title is 'SECURITY MANAGEMENT SYSTEM' and the user is logged in as 'SMSU00003 !!'. The page has a navigation menu with 'Home', 'Settings', and 'About'. The main content area is titled 'SALARY DETAILS' and contains a form to select an employee and a month/year. The selected employee is 'SecurityGuard2' and the month/year is 'April 2020'. There are 'Calculate' and 'Print' buttons. Below the form is a table titled 'Salary Details For April 2020' showing the employee's ID, name, and a breakdown of salary components.

localho:50492/SalaryDetails.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

**SECURITY MANAGEMENT SYSTEM** WelCome SMSU00003 !!  
[\[Log Out\]](#)

Home Settings About

**SALARY DETAILS**

Select Employee : SecurityGuard2 ▼

Select Month/Year : April ▼ 2020 ▼

Calculate Print

Salary Details For April 2020			
Employee ID	SMSU00009		
Employee Name	SecurityGuard2		
Salary Details			
Sr.No	Description	%	Amount
1	Basic Salary		15,000.00
2	Home Allowance	20.00	3,000.00
3	Travel Allowance	1.50	225.00
4	Leaves Taken	2	1000
5	TDS		200.00
6	OverTime		
<b>Total</b>			<b>17,025.00</b>

### 4.3 Program Specifications / Flow Charts

Module	Program Name	Constraint	Description
Authentication	Login	The required fields must not be NULL.	To access the system user is given a login details i.e., user id and password.
	Change Password	Must enter correct password and also new password twice for verification.	User can change the password his or her current password to new password.

Module	Program Name	Constraint	Description
Admin	Add New Admin	The required fields must not be NULL.	Existing admin can create a new admin for managing the system.
	Member / Employee Registration.	Member / Employee information should be provided.	Any user (Member / Employee) can register to become a member.
	Add Company, Add Security Guard Schedule	The required fields must not be NULL and no same information must be added twice.	Admin can add new record by selecting of the programs and entering required information of that program.
	Update/Delete user (Member/Employee), Update /Delete Company	The required fields must not be NULL	Admin can update or delete his/her details.
HR	Add Shift, Add Security guard Schedule, Manage Security guard Attendance	The required fields must not be NULL.	HR can add new record by selecting of the programs and entering required information of that program.

Accountant	Salary Slip	Attendance is must.	Generates Salary Slip after calculating his/her attendance.
------------	-------------	---------------------	---

Module	Program Name	Constraint	Description
Reports	Create Report	Choice of various reports are displayed.	Report gets generated According to the choice.

**CHAPTER 5**  
**DRAWBACK AND LIMITATIONS**

## **5. Drawback & Limitation**

- The user should be an authorized user so that the no violation should be done.
- The database will extend by entering more records therefor system performance will decrease.
- In this system security guard has shifts in three parts and an every shift is compulsory of 8 hours.
- The shift timing of per guard is same for the month.
- Salary management will be only for security guard.

The data storage is centralized hence the performance of the system may degrade as the number of users are increase.

**CHAPTER 6**  
**PROPOSED ENHANCEMENT**

## **6. Proposed Enhancement**

- Various shift timings.
- Salary and attendance management for all types of employees like Admin, HR, Accountant, Security In charge.
- Automatic contract renewal reminder through Mail or SMS.
- Tools or accessories management for security guard.
- Providing advance security tools such as biometric attendance for all types of employees.

**CHAPTER 7**  
**CONCLUSION**



## 7. Conclusions

- The Security Guard Management System which is a web-based application developed for HR functions and Employee deployment to client. The Security Guard Management System will provide an easy-to-use, user friendly Graphical User Interface (GUI) as part of the Administrators working desktop environment.

The conclusions derived are as follows:

- 1) By using the current system, the total time required for doing various activities is very less as compared to the existing one.
- 2) The quality of process is improved and has become more transparent.
- 3) The required human efforts are reduced using the system.
- 4) The use of system eliminates paper work.
- 5) Removal of redundancy is achieved.

**CHAPTER 8**  
**BIBLIOGRAPHY**

## 8. Bibliography

### Website:

- <https://stackoverflow.com/>
- <https://www.w3schools.com/>
- <https://www.codeproject.com/>
- <https://forums.asp.net/t>

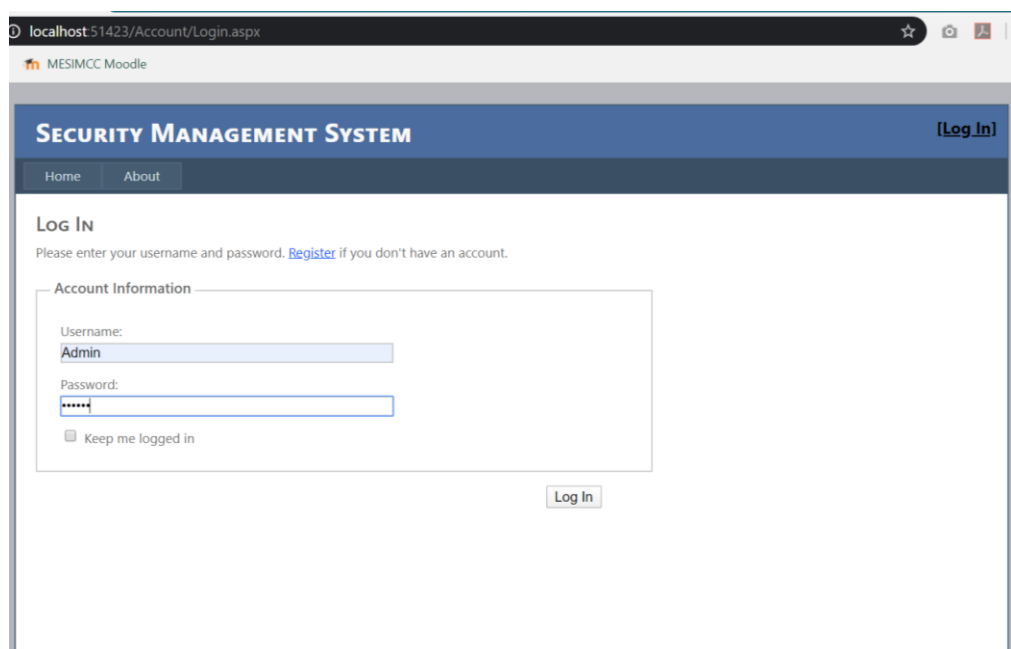
**CHAPTER 9**  
**ANNEXURE**

# ANNEXURE 1: USER INTERFACE SCREENS (All Screens with appropriate data)

## Home Screen



## Login



## Employee Registration:

### Personal Detail

localhost:50492/EmployeeRegis.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox

**SECURITY MANAGEMENT SYSTEM** WelCome Admin !! [\[Log Out\]](#)

Home Employee Details Client Details Reports Settings About

### EMPLOYEE REGISTRATION

Employee Name :  Gender :  Male  Female

Address :  MobileNo :

Date Of Birth :  Valid ID Proof :

Joining Date :  User Password :

UserType:

Please Collaps It... [Click](#)

Edit	Delete	Employee Name	Employee Address	Gender	Date Of Birth	Joining Date	Mobile No	Proof ID	ID Proof Type
<a href="#">Edit</a>	<a href="#">Delete</a>	Sai Kulkarni	kolhapur	F	01-08-2019	01-01-2020	9850084369	123435651111	Adhar Card
<a href="#">Edit</a>	<a href="#">Delete</a>	Admin	Admin Pune	M	07-10-2019	06-12-2019	7654320987	8776553329	Adhar Card
<a href="#">Edit</a>	<a href="#">Delete</a>	HR1	Pune	M	28-06-2019	28-01-2020	8674657546	hr11111	Adhar Card
<a href="#">Edit</a>	<a href="#">Delete</a>	Acc1	sangli	F	01-01-0001	01-01-0001	9987654432	pan123	Pan Card
<a href="#">Edit</a>	<a href="#">Delete</a>	SecurityIncharge1	Pune, 411038	M	04-02-2020	04-02-2020	9898748687	ad123	Adhar Card

## Client Detail

localhost:51423/ClientDetails.aspx

MESIMCC Moodle

**SECURITY MANAGEMENT SYSTEM** WelCome Admin !! [\[Log Out\]](#)

Home Employee Details Client Details Reports Settings About

### COMPANY DETAILS

Company Name :

Address :

Mobile No. :

Email ID :

Please Collaps It... [Click](#)

Edit	Delete	Company Name	Company Address	Company MobNo.	Company Email
<a href="#">Edit</a>	<a href="#">Delete</a>	C6	Mumbai	9898989898	c6@yahoo.com
<a href="#">Edit</a>	<a href="#">Delete</a>	mes	kothrud 411038	9865328542	mes@gmail.com
<a href="#">Edit</a>	<a href="#">Delete</a>	IMCC	Kothrud Pune	0998484738	info@imcc.com
<a href="#">Edit</a>	<a href="#">Delete</a>	IMCC	Kothrud Pune	0998484738	info@imcc.com
<a href="#">Edit</a>	<a href="#">Delete</a>	SBI	Kothrud Pune	8874635219	sbi@gmail.com

## Basic Salary Assignment

The screenshot shows a web browser window with the URL localhost:51423/BasicSalaryAssign.aspx. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "Admin !!". The navigation menu includes Home, Employee Details, Client Details, Reports, Settings, and About. The main content area is titled "BASIC SALARY ASSIGN" and contains the following form fields:

- Select Employee: SecurityGuard2 (dropdown)
- Basic Salary: 15000 (text input)
- Travel Allowance: 1000 (text input)
- TDS: 200 (text input)
- Total Leaves: 2 (text input)
- Overtime Per Hour: 200 (text input)
- Home Allowance: 4000 (text input)

Buttons for "Assign" and "Cancel" are located at the bottom right of the form.

## Security Gaurd Assignment under Security Incharge

The screenshot shows a web browser window with the URL localhost:51423/SecurityInchargeAssignment.aspx. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "SMSU00002 !!". The navigation menu includes Home, Employee Details, Client Details, Reports, Settings, and About. The main content area is titled "SECURITY INCHARGE ASSIGNMENT" and contains the following form fields:

- Select Security Incharge: SecurityIncharge1 (dropdown)
- Assign Employee:

Select	Security Guard Name	Employee ID	Employee ID
<input checked="" type="checkbox"/>	SecurityGuard2	SMSU00009	58
<input checked="" type="checkbox"/>	SecurityGuard3	SMSU00010	59
<input type="checkbox"/>	SecurityGuard4	SMSU00011	60
<input type="checkbox"/>	SecurityGuard5	SMSU00012	61
<input type="checkbox"/>	SG6	SMSU00013	62
<input type="checkbox"/>	SG7	SMSU00014	63
<input type="checkbox"/>	SG8	SMSU00015	64

Buttons for "Assign" and "Cancel" are located at the bottom right of the form.

## Contract Details

localhost:51423/ContractMaintainance.aspx

MESIMCC Moodle

**SECURITY MANAGEMENT SYSTEM** WelCome SMSU00002 !! [Log Out]

Home Employee Details Client Details Reports Settings About

### CONTRACT MAINTAINANCE

Select Company : IMCC ▼

Start Date : 01-01-2019

End Date : 31-12-2020

Contract Status:

Additional Information : For parking

Submit Cancel

Contract Start Date	Contract StarEndt Date	Contract Status	Contract Display ID
01-03-2020	30-11-2020	False	CID00007
01-01-2019	31-12-2019	False	CID00008

## Contract Assignment

localhost:51423/ContractAssignment.aspx

MESIMCC Moodle

**SECURITY MANAGEMENT SYSTEM** WelCome SMSU00002 !! [Log Out]

Home Employee Details Client Details Reports Settings About

### CONTRACT ASSIGNMENT

Select Company : IMCC ▼

Select Contract : CID00008 ▼ Start Date : 01-01-2019 End Date : 31-12-2019

Select Security Incharge : SecurityIncharge1 ▼

Security Guard Name	Employee ID	Employee ID
SecurityGuard2	SMSU00009	58
SecurityGuard3	SMSU00010	59

Assign



## Security Guard Shift Assignment

The screenshot shows a web browser window with the URL `localhost:1560/SGShiftAssignment.aspx`. The browser's address bar and tabs are visible at the top. The page header is a dark blue bar with the text "SECURITY MANAGEMENT SYSTEM" on the left and "WelCome SMSU00004 !! [Log Out]" on the right. Below the header is a navigation menu with buttons for "Home", "Shift Assignment", "Approve Attendance", "Manage Attendance", "Settings", and "About". The main content area is titled "SECURITY GUARD - SHIFT ASSIGNMENT". It contains a form with the following fields: "For Contract :" with the value "CID00006 :- From 01-01-2020 To 30-06-2020"; "Select Security Guard :" with a dropdown menu showing "SecurityGuard2"; "Month :" with two dropdown menus showing "September" and "2020"; and "Prefered Shift :" with a dropdown menu showing "6:00 AM To 2:00 PM". An "Assign" button is located to the right of the "Prefered Shift" dropdown.

## Approve Security Guard Attendance By Security In charge

The screenshot shows a web browser window with the URL `localhost:51423/ApproveAttendance.aspx`. The browser's address bar and tabs are visible at the top. The page header is a dark blue bar with the text "SECURITY MANAGEMENT SYSTEM" on the left and "WelCome SMSU00004 !! [Log Out]" on the right. Below the header is a navigation menu with buttons for "Home", "Shift Assignment", "Approve Attendance", "Settings", and "About". The main content area is titled "APPROVE ATTENDANCE". It contains a form with the following fields: "Select Employee :" with a dropdown menu showing "SecurityGuard2"; and "Select Date:" with three dropdown menus showing "10", "January", and "2019". An "Approve Attendance" button is located below the date fields.

## Approve Security Guard Attendance By HR

The screenshot shows a web browser window at localhost:50492/ApproveAttendanceByHR.aspx. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "SMSU00002 !!". The navigation menu includes Home, Employee Details, Client Details, Reports, Approve Attendance, Settings, and About. The main content area is titled "SECURITY GUARD - SHIFT ASSIGNMENT". It contains a form with the following fields:

- Select Employee: SecurityGuard1
- Month: April 2020
- Approve button

## Salary Calculation

The screenshot shows a web browser window at localhost:50492/SalaryDetails.aspx. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "SMSU00003 !!". The navigation menu includes Home, Settings, and About. The main content area is titled "SALARY DETAILS". It contains a form with the following fields:

- Select Employee: SecurityGuard2
- Select Month/Year: April 2020
- Calculate button
- Print button

Below the form, there is a table titled "Salary Details For April 2020" showing the following data:

Salary Details For April 2020			
Employee ID	SMSU00009		
Employee Name	SecurityGuard2		
Salary Details			
Sr.No	Description	%	Amount
1	Basic Salary		15,000.00
2	Home Allowance	20.00	3,000.00
3	Travel Allowance	1.50	225.00
4	Leaves Taken	2	1000
5	TDS		200.00
6	OverTime		
<b>Total</b>			<b>17,025.00</b>

## Security Guard Check-in – Check-out

The screenshot shows a web browser window at localhost:1560/SGLogin.aspx. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "SMSU00009 !!". The navigation menu includes "Home", "Settings", and "About". The main content area is titled "SECURITY GUARD" and contains a form for logging in or out. The "Shift Date" field is set to "17-09-2020" and the "Shift Time" dropdown is set to "6am - 2pm". There are two buttons: "CheckIn" and "CheckOut".

localhost:1560/SGLogin.aspx

MESIMCC Moodle IMCC's LMS Home - Dropbox vb.net - .net objects... MantisBT

**SECURITY MANAGEMENT SYSTEM** WelCome SMSU00009 !!  
[Log Out]

Home Settings About

**SECURITY GUARD**

Shift Date :

Shift Time :

## Create New Admin Registration

The screenshot shows a web browser window at localhost:51423/Account/Register.aspx?ReturnUrl=. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in. The navigation menu includes "Home" and "About". The main content area is titled "CREATE A ADMIN ACCOUNT" and contains a form for creating an admin account. The form includes fields for "User Name", "E-mail", "Password", and "Confirm Password". The "User Name" field is set to "Admin1" and the "E-mail" field is set to "ad@gmail.com". There are two buttons: "Create Admin" and "Log In".

localhost:51423/Account/Register.aspx?ReturnUrl=

MESIMCC Moodle

**SECURITY MANAGEMENT SYSTEM** [Log In]

Home About

**CREATE A ADMIN ACCOUNT**

Use the form below to create admin account.  
Passwords are required to be a minimum of 6 characters in length.

Account Information

User Name:

E-mail:

Password:

Confirm Password:

## Edit Employee Profile (Change Password)

The screenshot shows a web browser window with the URL `localhost:51423/EmployeeProfile.aspx`. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "Admin !!". The navigation menu includes "Home", "Employee Details", "Client Details", "Reports", "Settings", and "About". The main content area is titled "CHANGE PASSWORD" and contains the following text: "Use the form below to change your password. New passwords are required to be a minimum of 6 characters in length." Below this text is a form titled "Account Information" with three input fields: "Old Password:", "New Password:", and "Confirm New Password:". Each field contains a series of asterisks. At the bottom of the form are two buttons: "Cancel" and "Change Password".

## Back dated attendance of security guard by in charge:

The screenshot shows a web browser window with the URL `localhost:50492/BackDatedAttendanceEntry.aspx`. The page title is "SECURITY MANAGEMENT SYSTEM" and the user is logged in as "SMSU00004 !!". The navigation menu includes "Home", "Shift Assignment", "Approve Attendance", "Add Attendance", "Settings", and "About". The main content area is titled "ATTENDANCE ENTRY" and contains the following form fields: "Select Employee:" with a dropdown menu showing "SecurityGuard2", "Select Date:" with a date input field showing "dd-mm-yyyy", "Check-In Time:" with a time input field showing "--:--", and "Check-Out Time:" with a time input field showing "--:--". At the bottom of the form is an "Add Attendance" button.

**ANNEXURE 2 : OUTPUT REPORTS WITH DATA (Data in forms must be reflected in report) ( If Report or form contains any calculation field check the calculation)**

**Employee Report**

The screenshot shows a web browser window displaying an 'Employee Report' from the Security Management System (SGM). The report is dated 23-07-2020 and contains a table with the following data:

<u>UserLoginID</u>	<u>Employee Name</u>	<u>Address</u>	<u>Mobile Number</u>
SaiKulkarni	Sai Kulkarni	kolhapur	9850084369
Admin	Admin	Admin Pune	7654320987
SMSU00002	HR1	Pune	8674657546
SMSU00003	Acc1	sangli	9987654432
SMSU00004	SecurityIncharge1	Pune, 411038	9898748687
SMSU00005	SecurityIncharge2	sangli	9798787643
SMSU00006	SecurityIncharge3	Pune	9878767576
SMSU00007	SecurityIncharge4	Pune	8687675765
SMSU00008	SecurityGuard1	Sangli	8765893748
SMSU00009	SecurityGuard2	Pune	7985687567
SMSU00010	SecurityGuard3	Sangli	9874985758
SMSU00011	SecurityGuard4	Pune	7876876764
SMSU00012	SecurityGuard5	Pune	9878364647
SMSU00013	SG6	Sangli	8787675768
SMSU00014	SG7	sangli	9787675645
SMSU00015	SG8	Pun	8759785568
SMSU00016	SG9	Pune	9798647235
SMSU00017	SG10	Pune	9687678568
SMSU00018	DEMO	DEMO DEMO	9897837484
SMSU00019	SecurityGuard6	Kothrud Pune .	8756565453

At the bottom of the report, there is a footer with the text 'Security Management System' on the left and the page number '1' on the right.


# Client Report

localhost:1560/Reports/ClientReport.aspx

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Main Report



## Client Report

23-07-2020

<u>Client Name</u>	<u>Client Address</u>	<u>Phone Numbe</u>	<u>Email</u>
C6	Mumbai	9898989898	c6@yahoo.com
mes	kothrud 411038	9865328542	mes@gmail.com
IMCC	Kothrud Pune	0998484738	info@imcc.com
IMCC	Kothrud Pune	0998484738	info@imcc.com
SBI	Kothrud Pune	8874635219	sbi@gmail.com
c4	Sangli	8766564542	c4@gmail.com
C7	Nagpur	8787878787	c7@yahoo.com
kwc	sangli 416416	7856747354	kwc@gmail.com
DemoCompany	Kothrud Pune	8569996755	demo@gmail.com

---

[Security Management System](#) 1

# Client Contract Report

localhost:1560/Reports/ClientContractReport.aspx

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**Main Report**



## Client Contract Report

23-07-2020

Client Name IMCC  
Client Address Kothrud Pune  
Phone 0998484738  
Email ID info@imcc.com

Contract ID	Contract Start Date	Contract End Date
CID00007	2020-03-01	2020-11-30
CID00008	2019-01-01	2019-12-31
CID00002	2020-01-01	2020-02-29


# Security in charge under Security Guard Report

localhost:1560/Reports/SecurityInchargeReport.aspx

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**Main Report**



## Security Incharge Under Guide

23-07-2020

---

Incharge User ID SMSU00006  
Incharge Name SecurityIncharge3

Reportee Employee ID	Name	MobileNo
SMSU00013	SG6	8787675768
SMSU00014	SG7	9787675645
SMSU00015	SG8	8759785568

---

Incharge User ID SMSU00007  
Incharge Name SecurityIncharge4

Reportee Employee ID	Name	MobileNo
SMSU00024	SG11	9687643576
SMSU00025	SG12	9673874647

---

Incharge User ID SMSU00020  
Incharge Name SecurityIncharge5

Reportee Employee ID	Name	MobileNo
SMSU00026	SG13	9468346837
SMSU00027	SG14	9786437465

---

[Security Management System](#) 2




# Salary Slip Report

localhost:1560/Reports/SalaryslipReport.aspx

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Main Report



## Salary Slip

02-08-2020

**April 2020**

EmployeeID SMSU00009  
EmployeeName SecurityGuard2

Sl.No.	Description	%	Amount
1.	<u>Basic Salary</u>		15,000.00
2.	<u>Home Allowance</u>	20.00	3,000.00
3.	<u>Travel Allowance</u>	1.50	225.00
4.	<u>Leaves</u>		2
5.	<u>TDS</u>		200.00
6.	<u>OverTime</u>		1,600.00
<u>Total</u>			18,625.00

Authorized Digital Signature ,

Admin / Accountant  
02-08-2020

[Security Management System](#) 1

### **ANNEXURE 3: SAMPLE PROGRAM CODE (which will prove sufficient development is done by the student)**

**// Code for Employee Registration:**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
using System.Data.SqlClient;

namespace SecurityMangement
{
    public partial class EmployeeRegis : System.Web.UI.Page
    {
        private DataTable moEmployeeTable;
        private Boolean mbNewUser;
        private Boolean mbPageChange;

        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                if (Global.IsLoggedInUserAdmin)
                {
                    ddlempusertype.Visible = true;
                    Label10.Visible = true;
                }
                else
                {
                    ddlempusertype.Visible = false;
                    Label10.Visible = false;
                }

                clearData();
                ShowData();
            }
        }
    }
}
```

```

        mbNewUser = true;
    }

private void ShowData()
{
    EmployeeClass oEmployee = new EmployeeClass();

    DataTable oEmployeeDetails = new DataTable();

    if (oEmployee.GetEmployeeDetails())
    {
        oEmployeeDetails = oEmployee.EmployeeDetails;
        GridView1.DataSource = oEmployeeDetails;
        GridView1.DataBind();

        moEmployeeTable = oEmployeeDetails;
        mbNewUser = true;
        mbPageChange = false;

    }
}

private void clearData()
{
    txtempNm.Text = "";
    txtempAddress.Text = "";
    txtDOB.Text = "";
    txtjoindate.Text = "";
    txtmbno.Text = "";
    txtvalid.Text = "";
    txtUserLoginID.Text = "";
    txtPassword.Text = "";
    ddlempusertype.SelectedIndex = 0;
    ddlempvalididproof.SelectedIndex = 0;
    txtUserIDToGet.Text = "";
}

protected void btnSubmit_Click(object sender, EventArgs e)
{
    if (Page.IsValid)
    {
        EmployeeClass oEmployee;
        oEmployee = new EmployeeClass();
        string sEmpIDToGet;
    }
}

```

```

sEmpIDToGet = txtUserIDToGet.Text.ToString();
oEmployee.EmployeeAddress = txttempAddress.Text;
oEmployee.EmployeeName = txttempNm.Text;

if (sEmpIDToGet == "")
{
    mbNewUser = true;
}
else
{
    mbNewUser = false;
    oEmployee.EmployeeIDToGet = int.Parse(sEmpIDToGet);
}

oEmployee.IsNewEmployee = mbNewUser;
oEmployee.EmployeeValidIDProof = txtvalid.Text;
oEmployee.EmployeeMobileNo = txtmbno.Text;
oEmployee.EmployeePassword = txtPassword.Text;
oEmployee.DateOfBirth = DateTime.Parse(txtDOB.Text.ToString());
oEmployee.DateofJoining = DateTime.Parse(txtjoindate.Text.ToString());
oEmployee.UserLoginID = txtUserLoginID.Text;
oEmployee.ValidProofIDType =
ddlempvalididproof.SelectedValue.ToString();

if (Global.IsLoggedInUserAdmin)
{
    string sValue = ddlempusertype.SelectedValue;
    oEmployee.UserIDType = int.Parse(sValue);
}
else
{
    //No code
}

if (rbtnfemale.Checked)
{
    oEmployee.EmployeeGender = EmployeeClass.EmpGender.Female;
}
else
{
    oEmployee.EmployeeGender = EmployeeClass.EmpGender.Male;
}

```

```

        if (oEmployee.SaveEmployeeDetails())
        {
            ShowData();
            clearData();
            mbNewUser = false;
        }
    }
    else
    {
        RequiredFieldValidator1.Visible = true;
    }
}

protected void btnCancel_Click(object sender, EventArgs e)
{
    clearData();
}

protected void GridView1_PageIndexChanged(object sender, EventArgs e)
{
    mbPageChange = false;
}

protected void GridView1_PageIndexChanging(object sender,
GridViewPageEventArgs e)
{
    mbPageChange = true;
    GridView1.PageIndex = e.NewPageIndex;
    ShowData();
}

protected void btnEdit_Click(object sender, EventArgs e)
{
    string sEmployeeID = "";
    int iEmployeeID;
    Button oBtnEdit = (Button)sender as Button;

    sEmployeeID = oBtnEdit.CommandArgument;
    iEmployeeID = int.Parse(sEmployeeID);
    AssignDataToPage(sEmployeeID);
}

protected void btnDelete_Click(object sender, EventArgs e)

```

```

{
    string sEmployeeID= "";
    int iEmployeeID;
    Button oBtnEdit = (Button)sender as Button;

    sEmployeeID = oBtnEdit.CommandArgument;

    iEmployeeID = int.Parse(sEmployeeID);

    EmployeeClass oEmployee;
    oEmployee = new EmployeeClass();
    oEmployee.EmployeeIDToGet = iEmployeeID;

    if (oEmployee.GetEmployeeDetails())
    {
        oEmployee.IsUserDeleted = true;
        oEmployee.SaveEmployeeDetails();
        ShowData();
    }
}

private void AssignDataToPage(string sEmpValue)
{
    String sEmployeeID = sEmpValue;
    int iEmployeeID = int.Parse(sEmployeeID);

    EmployeeClass oEmployee;
    oEmployee = new EmployeeClass();
    oEmployee.EmployeeIDToGet = iEmployeeID;

    if (oEmployee.GetEmployeeDetails())
    {
        //AssignDataToControls
        txttempNm.Text = oEmployee.EmployeeName;
        txttempAddress.Text = oEmployee.EmployeeAddress;
        if (oEmployee.EmployeeGender == EmployeeClass.EmpGender.Female)
        {
            rbtnfemale.Checked = true;
        }
        else
        {
            rbtnmale.Checked = true;
        }

        txtDOB.Text = oEmployee.DateOfBirth.ToString("yyyy-MM-dd");
    }
}

```

```

txtjoindate.Text = oEmployee.DateofJoining.ToString("yyyy-MM-dd");
txtmbno.Text = oEmployee.EmployeeMobileNo;
txtUserLoginID.Text = oEmployee.UserLoginID;
txtvalid.Text = oEmployee.EmployeeValidIDProof;
txtPassword.Text = oEmployee.EmployeePassword;
string sValue = oEmployee.UserIDType.ToString();
ddlempusertype.ClearSelection();
ddlempusertype.Items.FindByValue(sValue).Selected = true;
sValue = oEmployee.ValidProofIDType;
ddlempvalididproof.ClearSelection();
if (sValue == "")
{

}
else
{
    ddlempvalididproof.Items.FindByValue(sValue).Selected = true;
}
mbNewUser = false;
txtUserIDToGet.Text = oEmployee.EmployeeID.ToString();
}
}

protected void GridView1_RowEditing (object sender,
GridViewEditEventArgs e)
{

}
}
}

```