

Project Report On

**“Smart Employee System”**



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# CERTIFICATE

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This is to certify that Khushali Patel satisfactory completed project on "Smart Employee System" for the subject Project-I within the four walls of "B.S. PATEL POLYTECHNIC" in academic year 2019-2020.

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(INTERNAL GUIDE)

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Thanks to All those valuable suggestions and comments the text has benefited so much. We express our gratitude towards all faculty members who have guided and directed us at every moment to fulfill our mission and produce this work in front of you. We hope you would undoubtedly find the matter interesting and information as well. At last thank to all users for their interest in our work.

With Sincere Regards,  
Patel Khushali P.

## **ABSTRACT**

Due to the advancement in the technology and saving the time with the large number of Employee, there is need of the system which handles large number of data. Employees are the backbones of any company therefore their management plays a major role in deciding the success of an organization. This project simplifies the tasks of handling each employee's personal as well as assigned details which can be accessed by himself or the administrator.

The "Smart Employee system" is developed for overriding the problems with handling the system manually. This system eliminates the hardship faced by the existing system. This system has more user-friendly interface and doesn't need any formal knowledge to carry out the operation in a smooth and effective manner.

This application reduces the possibility of the errors while entering those data, which can be avoided by error message notifying the user of its invalidity or by restricting the data input in it.

# CHAPTER 1 INTRODUCTION

## 1.1 NEED OF THE SYSTEM: -

- **Improve Workforce Management Efficiencies:**

Relying on manual processes to manage employees can quickly evolve into an administrative nightmare. Tracking information by manually not only increases the human errors, but it exposes you to certain compliance risks. And if you're using unfriendly software that forces you to switch between products and access multiple documents, you cannot be certain that you are using the most current data. With a fully unified employee management platform that works for you, not against you, you'll never need to import multiple files and re-enter data across different platforms.

- **Employee Engagement:**

Employee management systems also offer solutions to increase employee engagement. Tools such as Performance Management provides a modern way to track and evaluate employee development. You're able to work with employees to establish goals, make them feel valuable and develop a path for their success. Because 70% of employees around the country are unengaged, having a tool in place to keep a stimulating organization is a necessity, not a 'nice to have'.

- **Securing Employee Information:**

Databases have become a prime target for hackers. With Social Security numbers, bank account information, check stubs and personal info available within the system, failing to protect critical information can prove costly.

And if relying on paper files and spreadsheets to house sensitive data, you could be exposed to the information falling into the wrong hands. The right system should provide you with specific security measures, multi-factor authentication and data encryption just to name a few, to keep your employees' information safe.

- **HR Data Analytics & Metrics:**

HR departments are turning to data to identify insights and solve business challenges like turnover, overtime and headcount. And the right data can open the flood gates for key learnings to help you and your team make more informed decisions. For instance, you might determine that a department has a particularly high employee turnover rate. With data analytics, these questions can be accessed, solutions can be developed and results can be measured to not only impact your bottom line but help you gain more protection towards harmful. Executive-level meetings are a show, don't tell environment. To show the true value an HR department can offer, you need to be able to go to attend these meetings armed with data and action items.

- **Mitigate Compliance Risk:**

Compliance is never a given and with the increased number of regulations and audits of organizations, it's more critical than ever to know what's required and properly manage regulations so you can stay ahead of litigation. Because workforce management systems are a cloud-based technology with the ability to document and access information from anywhere at any time, providing complete I-9s, W-4s and other compliance and tax documents to auditors can be as simple as a few clicks. Included in these software systems are proactive notifications for when documents are about to expire so you can ensure certifications and necessary compliance documents are current.

- **Expense management:**

An incredibly useful feature of most employee management software is that it allows staff to scan or photograph and upload receipts onto a database, therefore allowing managers and employees to keep a permanent account of all expenses.

- **Asset Management:**

When an employee leaves the company, managers can keep track and monitor the return of any equipment that was provided to the employee by the organization.

## **1.2 DETAILED PROBLEM DEFINITION**

In this world of growing technologies everything has been computerized. With large number of work opportunities human workforce has been increased. Thus, there is a need of a system which can handle the data of such a large number of employees. This project simplifies the task of maintaining records because of its user-friendly nature.

The objective of this project is to provide a comprehensive approach towards the management of employee information. This will be done by designing and implementing an HR management system that will bring up a major paradigm shift in the way that employee information is handled.

The objectives of this system include:

- Design of a web-based HR management system to fulfil requirements such as project management, leave management, report generation to assist in performance appraisal, ESS and employee trainings.
- Well-designed database to store employee information.
- A user friendly front-end for the user to interact with the system.

## **1.3 VIABILITY OF THE SYSTEM**

The scope of this project will be limited to the following:

- Employee profiles- Employees will have access to their personal profiles and will be able to edit their details.
- Electronic leave application- Complete elimination of paperwork in leave management by enabling an employee apply for leave as well as check their leave status through the system. This will also enable the HR manager to accept/reject leave application through the system.
- Project management- Assign tasks and projects to employees, assign a project team and keep a track of the progress.
- Report generation- The HR will be able to generate timely reports in order to monitor employees and this can be used for performance appraisals. The reports will have all the information of an employee from education background, trainings attended, projects done as well as technical skills.
- Recruitment process- The admin will add an employee and default password and employee id will be generated and sent to the new employee email. The HR manager will then have the ability to add an employee's information to the database.

#### **1.4 Presently Available System**

- This system ensures the employee engagement i.e. when employee feels passionate about their jobs and their work and also committed to the organization.
- This system has lessened the burden of the manually handling data.

#### **1.5 Future Prospects**

- In future we would like to expand our system by adding client feature.
- We also like to provide high security using digital biometric attendance system.

## CHAPTER 2 ANALYSIS

### 2.1. Requirement Analysis

#### 2.1.1. Functional Requirements:

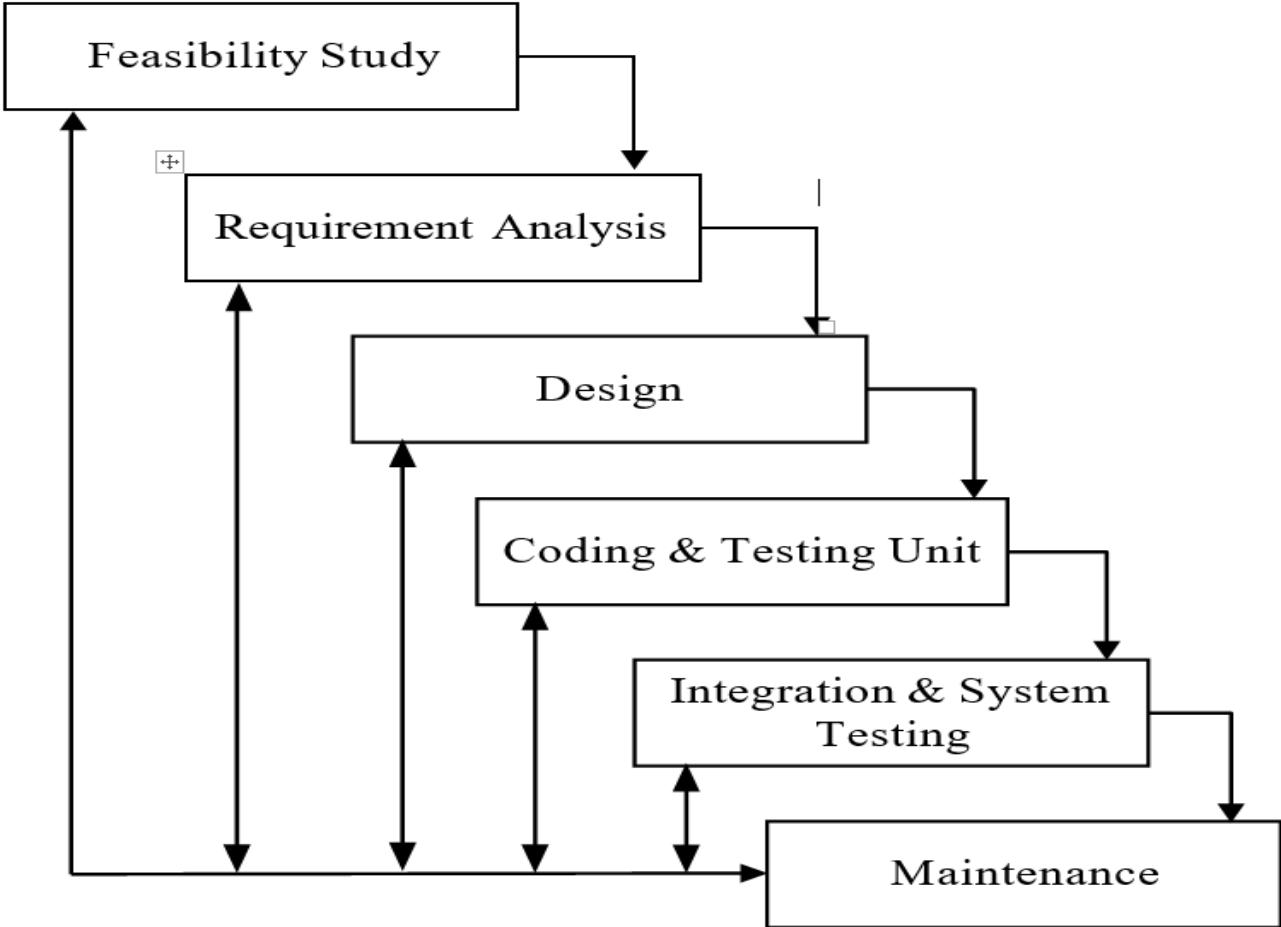
1. Authentication
  - Login – the user can login to the ems system with his/her username and password.
  - Logout – the user can log out from the ems system.
  - Login failure – if the user does not exist in the database or the user has not yet been authorized by the admin of the system.
2. Authorization
  - User role check – After logging in the system, the user role will be checked from the database user interface will be displayed according to their role.
3. Process data
  - Display – user with defined roles can display the contents of the database. like employee can only view his/her personal info. Project manager can see his/her personal info but also employee's information who are working under his/her department. Admin and HR can display their personal info as well as employee 's information.
  - Edit – A user with employee role can edit his/her specific personal information. Project manager can only edit employee 's personal information that is under his/her coverage except user role type. admin can edit all information related to all employee 's including their user role type.
  - Search – user with project manager role can search the content of database for the employee 's who are under his/her coverage. HR and admin role can search all employee 's info in the database. search feature works on specific keywords showing employee 's characteristics, skills, features, etc.
  - for example, HR wants to find employee 's characteristics who are well trained in "java programming". He/she will write the specific keyword on the search bar and press the available search button. Afterwards he/she will get a list of all employee 's who know "java programming".
  - Update authentication – this feature can be used only by admin. Admin can update the role type of a specific user. for example, an employee got promotion and his role will be changed from employee to project manager. Admin will be able to update this authentication mechanism.
4. Leave application/approval
  - Leave application – the user can be able to fill in leave application form in the appropriate fields.
  - Leave approval – the admin can be able to approve leave applications based on the reasons stated, length of leave as well as available HR on a department.
  - Leave days accrued – the user shall be able to check the number of leave days received.
5. Recruitment
  - Add new employee – HR is able to add new employee to the database. the new employee will have all the personal information related to him/her. the employee will have an id.
  - Add a new user – after a new employee has being created by HR, admin is responsible for creating a new user by the specified id assigned in the "add a new employee" feature. The unique id will be given by the system. Admin will assign a new role such as employee, project manager, HR and admin to the new crated user.
6. Report generation
  - Report generation – HR shall be able to generate a report in pdf format for each employee based on the information in the database.

7. Project management
  - Creating project team - the project manager will able to create a project and come up with a project team.
  - Work breakdown structure – the project manager will able to assign tasks to the project team as well as monitor their progress.
8. Training
  - The HR shall create trainings and assign employee that are required to attend the trainings as well.

### **2.1.2 Non-Functional Requirements:**

1. Performance requirements
  - There is no restriction on the number of the users to be added to the database.
2. Software requirements
  - Since EMS application is web-based application, internet connection must be established.

## **2.2 Project Model**



**[Figure 1: Iterative Waterfall Model]**

- This application is developed using Iterative model. Almost every other model is derived from the waterfall model.
- The phase of detecting errors is close to its points of introduction is known as face containment of errors.
- Incremental model is also referred as the successive version of waterfall model using incremental approach and evolutionary model.
- In this model, the system has broken down into several modules which can be incrementally implemented and delivered.
- First develop the core model and when customer evaluate the system then the initial product skeleton is redefined into increasing levels capacity by adding new functionalities in successive versions.

## ➤ Advantages

- The core model is tested thoroughly which reduces the errors in final product and new version performing more useful work than the previous version.

- Here the model is flexible and less costly and also user gets a chance to experiment with partially developed software.
- This model finds the exact product as per requirements of the user.

## **2.3 Schedule Representation**

Generalized project scheduling tools and technique can be applied with little modification to software projects.

Project evolution and review technique and critical paths method are two project scheduling method that can be applied to software development. Both techniques are driven by information already developed in earlier project planning activities:

- Estimate of effort.
- A decomposition of the product function.
- The selection of appropriate process model and task set.
- Decomposition of data.

## **2.4 Feasibility Study:**

### **2.4.1 Technical Feasibility:**

- The proposed system will be developed in web bases completely and it is required to use web technologies appropriately. Technology to build the overall system is available.
- Currently available web technology – php, ASP.net, etc.
- Servers – apache, google web server, etc.
- DBMS – ORACLE, MYSQL, etc.

### **2.4.2 Operational Feasibility:**

- It is the measure of how well a proposed system solves the problems and takes advantages of the opportunities identified during the scope definition and problem analysis phases. and how well it satisfies the system requirements identified in the requirement analysis phase.
- Potential users of the system are familiar with the website navigation and handling. Hence training up to necessary level would be easy.
- Existing internal network - The implementation of the system in the intranet can be easily managed, and the security issues needs to be addressed in network level or else in the application level. PHP supports object-oriented development approaches so that well defined design can maintain the smooth run and the flexibility of the proposed systems.
- Security issues User access levels will be set and the system will only allow privileged. users Authentication Authorization and Audit Procedures Will be facilitated to the system administrators.
- Data retrieval and the data presenting will be done by the system so the report generation will be automated by the system.

### **2.4.3 Cultural Feasibility:**

In cultural feasibility the project's alternatives are evaluated for their impact on the local and general culture. For example, environmental factors need to be considered and these factors are to be well known. Further an organization's own culture can clash with the results of the project.

It is mainly dealing with the way end users feel about the proposed system. Some of the cultural feasibilities involve with our proposed system are:

- Within the system we should give the client access privileges, according to the organizational culture of the University of Colombo School of Computing. So, the four users should get the privileges to access the personal information and leave management details with the use of their username and password.
- Users should feel good about the system which has a user-friendly environment.
- The daily attendances of the employees which are gathered with the use of fingerprint machine should be highly secured.

### **2.4.4 Legal Feasibility:**

Legal feasibilities involve in verifying the legal viability of the proposed system.

- Government Constraints - Since the proposed system is implemented in a government institute, it may be subject to rules and regulations imposed and even funding constraints. However, in this particular scenario it may not have a big impact.
- Copyright Issues - Since the proposed system will be using open source software there will be minimal licensing and other related issues.

### **2.4.5 Economical Feasibility:**

Economic feasibility is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system.

## CHAPTER 3 DESIGN

**Arrows:** Showing what's called "flow of control" in computer science. An arrow coming from one symbol and ending at another symbol represents that control passes to the symbol the arrow points to.

**Processing steps:** Represent as rectangle. Examples: "Add 1 to X"; "replace identified part"; "save changes" or similar.

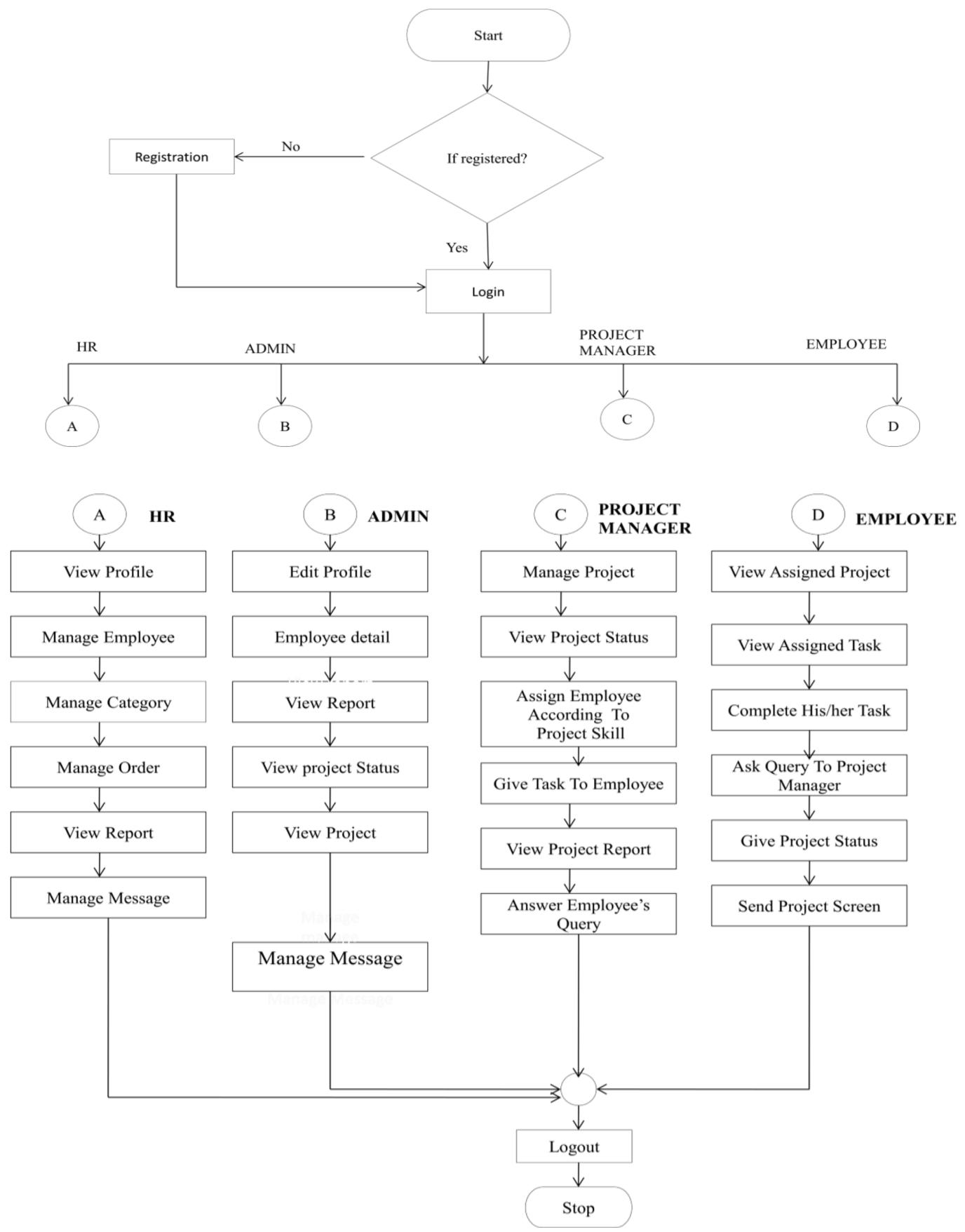
**Input/output:** Represent as a parallelogram. Examples: Get X from the user; display X.

**Conditional or Decision:** Represent as a diamond (rhombus). These typically contain a Yes/No question or True/False test. This symbol is unique in that it has two arrows coming out of it, usually from the bottom point and right point, one corresponding to Yes or True, and one corresponding to No or False. The arrows should always be labeled. A decision is necessary in a flowchart. More than two arrows can be used, but this is normally a clear indicator that a complex decision is being taken, in which case it may need to be broken-down further, or replaced with the "predefined process" symbol. A number of other symbols that have less universal currency, such as:

- A Document represented as a rectangle with a wavy base;
- A Manual input represented by parallelogram, with the top irregularly sloping up from left to right. An example would be to signify data-entry from a form;
- A Manual operation represented by a trapezoid with the longest parallel side at the top, to represent an operation or adjustment to process that can only be made manually.
- A Data File represented by a cylinder.

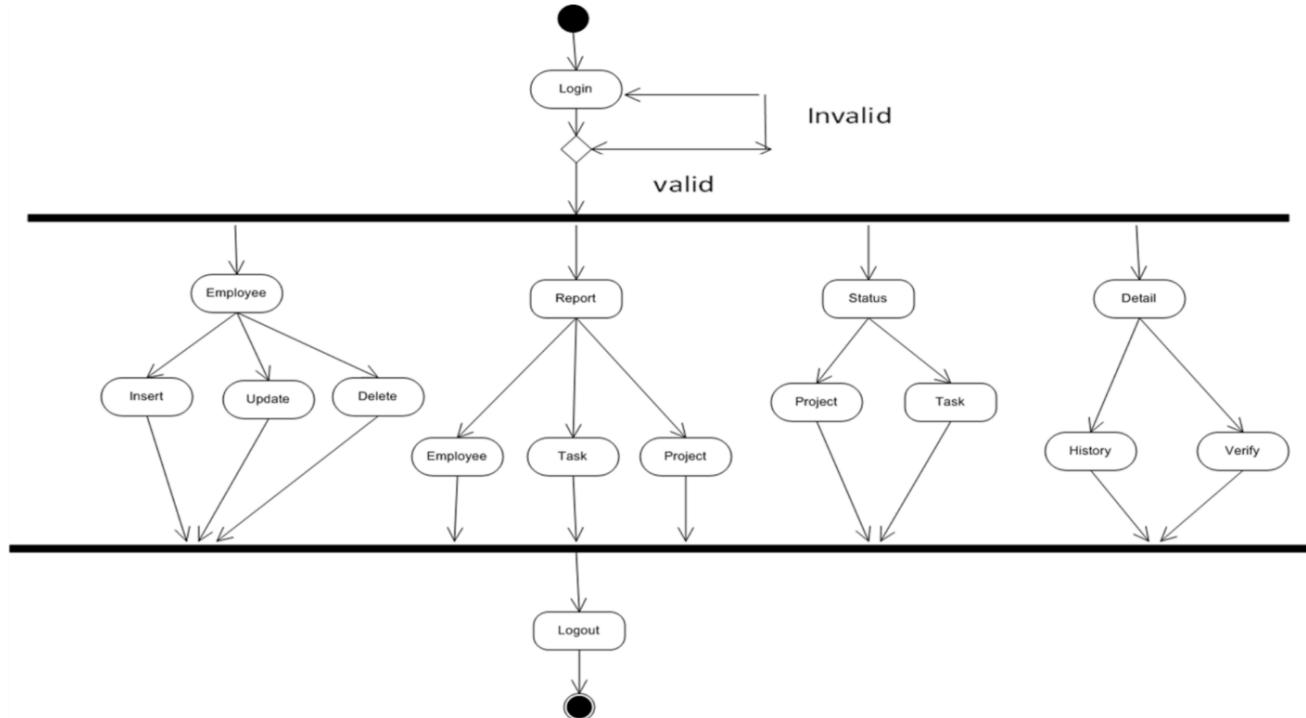
Flowcharts may contain other symbols, such as connectors, usually represented as circles, to represent converging paths in the flowchart. Circles will have more than one arrow coming into them but only one going out. Some flowcharts may just have an arrow point to another arrow instead. These are useful to represent an iterative process (what in Computer Science is called a loop). A loop may, for example, consist of a connector where control first enters, processing steps a condition with one arrow exiting the loop, and one going back to the connector. Off-page connectors are often used to signify a connection to a process held on another sheet or screen. It is important to remember to keep these connections logical in order. All processes should flow from top to bottom and left to right.

### 3.3 SYSTEM FLOWCHART



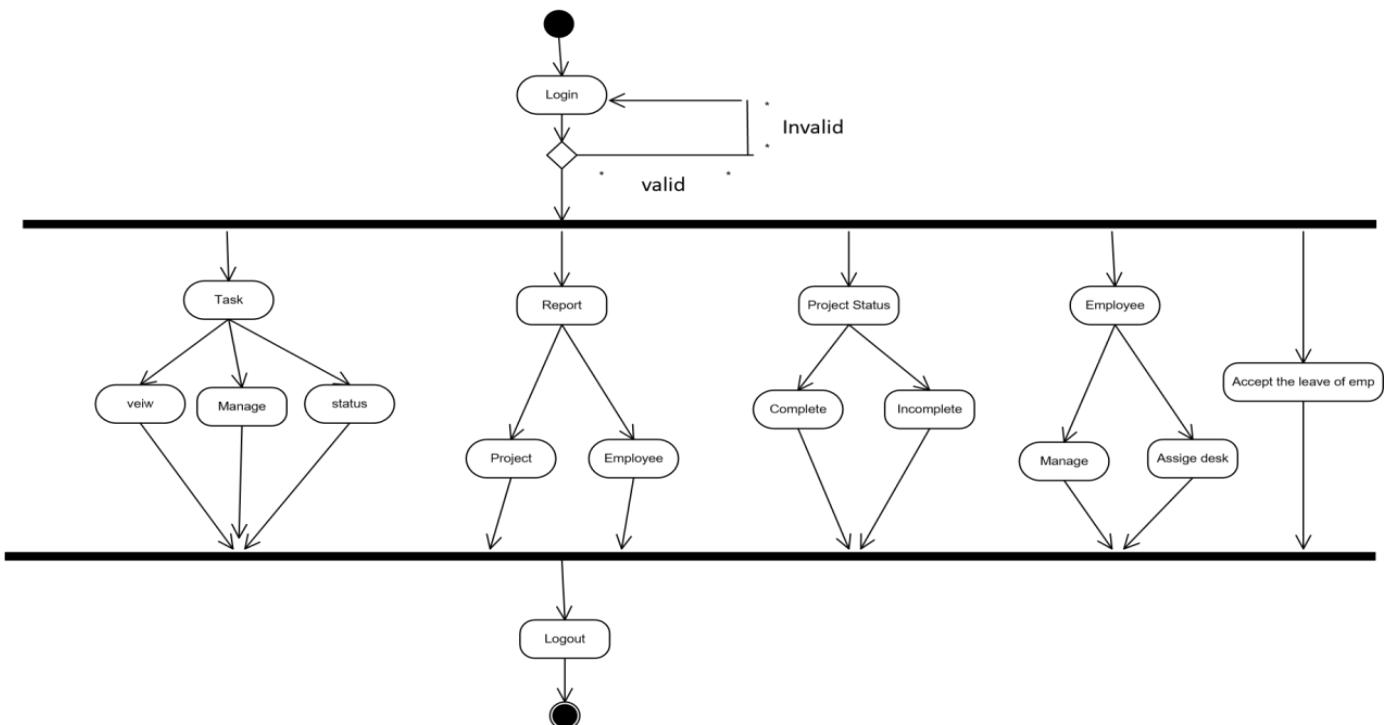
### 3.4 ACTIVITY DIAGRAM

#### I. ADMIN



**Fig: - Activity Diagram for Admin**

#### II. HUMAN RESOURCE (HR)



**Fig: - Activity Diagram for HR**

### III. PROJECT MANAGER

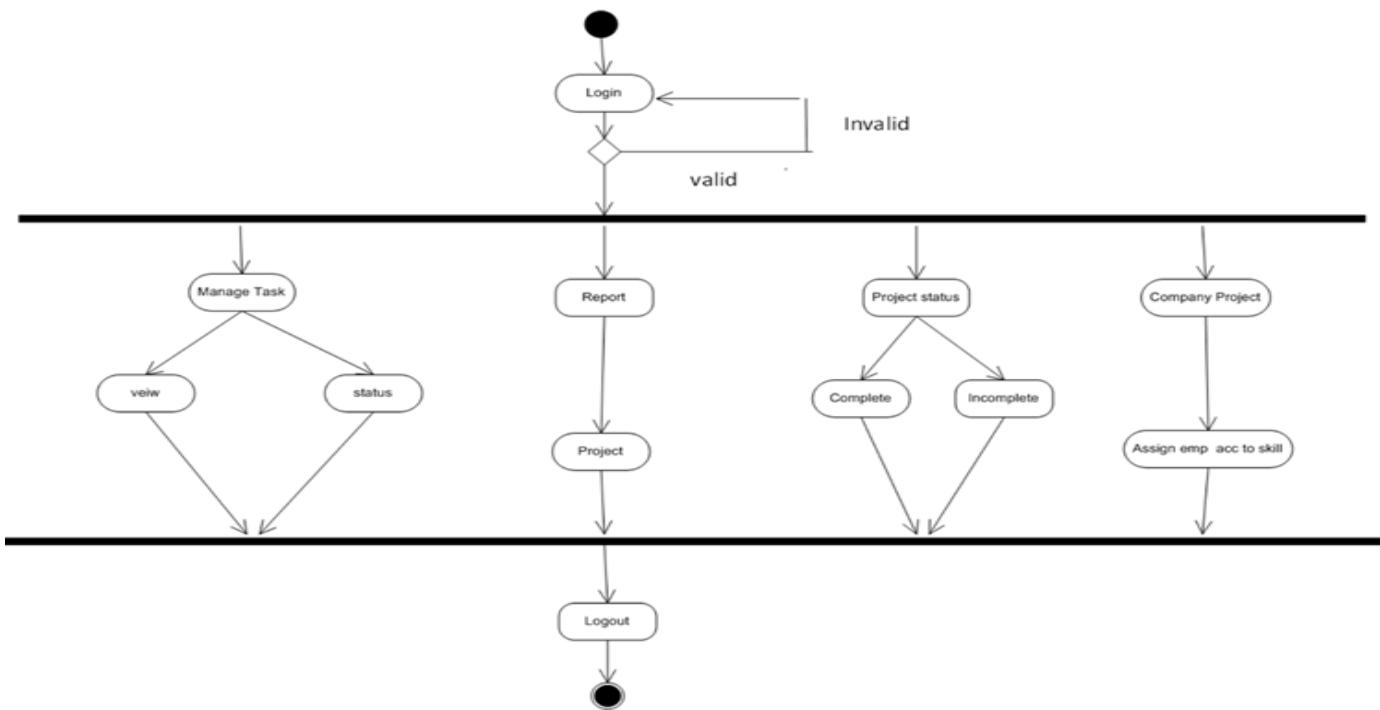


Fig: - Activity Diagram for Project Manager

### IV. EMPLOYEE

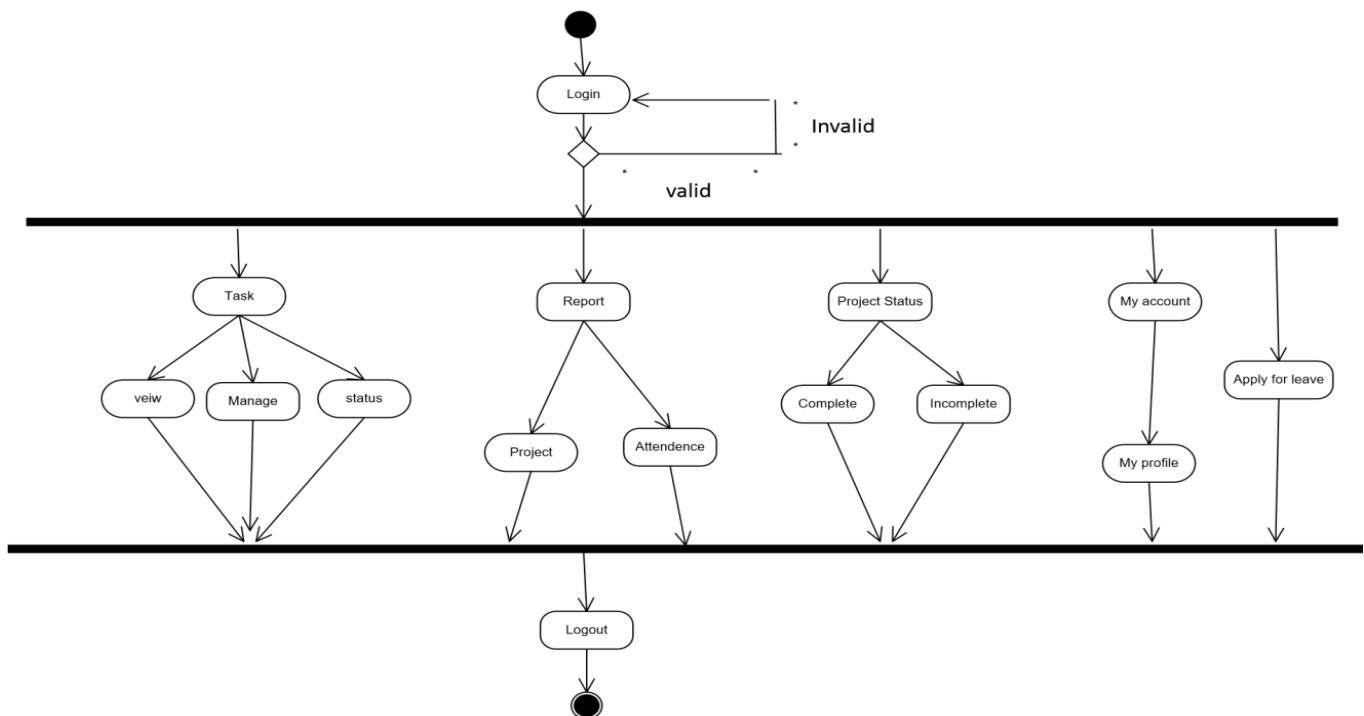


Fig: - Activity Diagram for Employee

### **3.5 DATA FLOW DIAGRAM**

A Data-Flow Diagram (DFD) is a graphical representation of the "flow" of data through an information system. DFDs can also be used for the visualization of data processing (structured design).

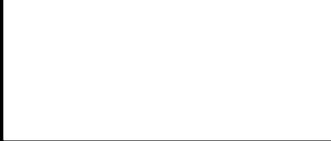
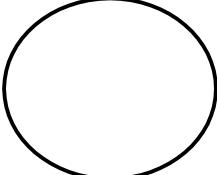
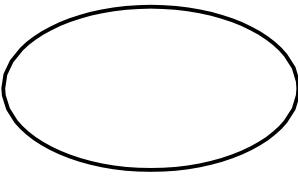
On a DFD, data items flow from an external data source or an internal data store to an internal data store or an external data sink, via an internal process. A DFD provides no information about the timing of processes, or about whether processes will operate in sequence or in parallel. It is therefore quite different from a flowchart, which shows the flow of control through an algorithm, allowing a reader to determine what operations will be performed, in what order, and under what circumstances, but not what kinds of data will be input to and output from the system, nor where the data will come from and go to, nor where the data will be stored.

It is common practice to draw a context-level data flow diagram first, which shows the interaction between the system and external agents which act as data sources and data sinks. On the context diagram (also known as the Level 0 DFD) the system's interactions with the outside world are modeled purely in terms of data flows across the system boundary. The context diagram shows the entire system as a single process, and gives no clues as to its internal organization.

This context-level DFD is next "exploded", to produce a Level 1 DFD that shows some of the detail of the system being modeled. The Level 1 DFD shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the system as a whole. It also identifies internal data stores that must be present in order for the system to do its job, and shows the flow of data between the various parts of the system.

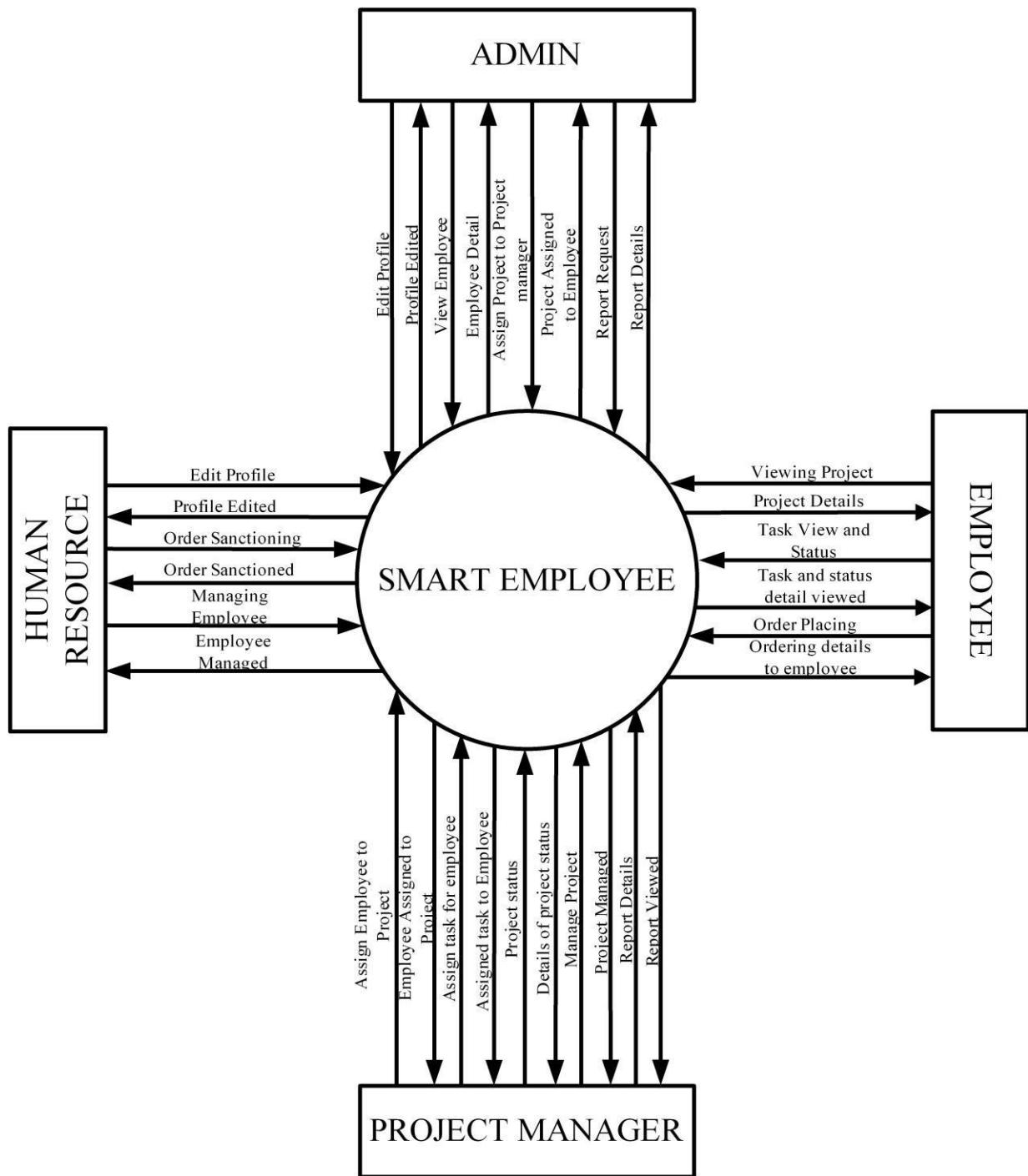
Data-flow diagrams were invented by Larry Constantine, the original developer of structured design, based on Martin and Estrin's "data-flow graph" a model of computation. Data-flow diagrams (DFDs) are one of the three essential perspectives of the structured- systems analysis and design method SSADM. The sponsor of a project and the end users will need to be briefed and consulted throughout all stages of a system's evolution. With a data-flow diagram, users are able to visualize how the system will operate, what the system will accomplish, and how the system will be implemented.

The old system's dataflow diagrams can be drawn up and compared with the new system's data-flow diagrams to draw comparisons to implement a more efficient system. Data-flow diagrams can be used to provide the end user with a physical idea of where the data they input ultimately has an effect upon the structure of the whole system from order to dispatch to report. How any system is developed can be determined through a data-flow diagram.

Symbol	Description
	<b>Entity:</b> Entities are external to the system which interacts by inputting the data.
	<b>System:</b> It shows the system name.
	<b>Process:</b> It shows the part of the system that transforms inputs into outputs.
	<b>Data Flow:</b> It passes the data from one part to another.
	<b>Data Store:</b> Data store is represented by two parallel lines. It is generally logical file or database.

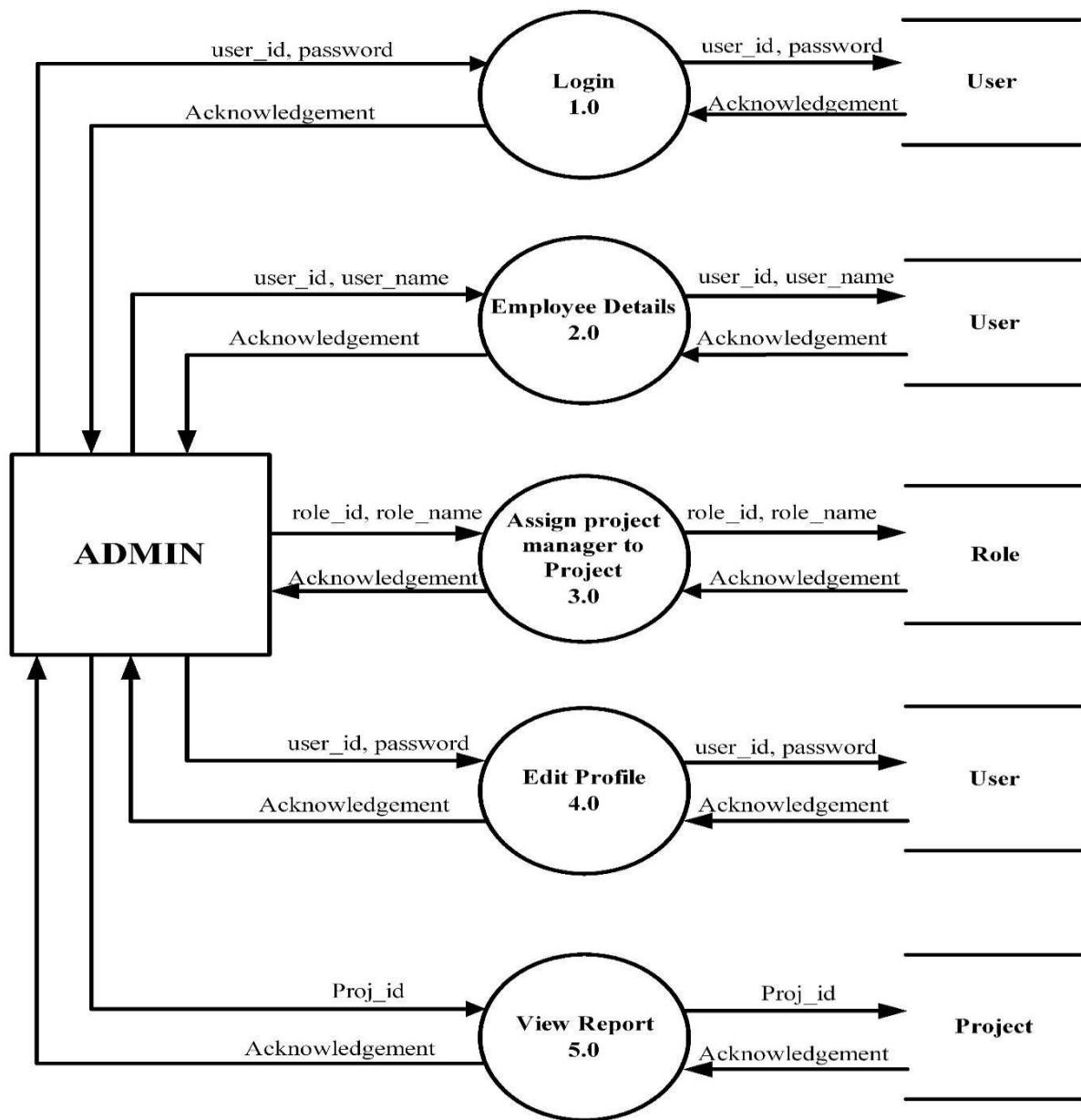
**Table: Data Flow Diagram Symbol**

## Level 0: context



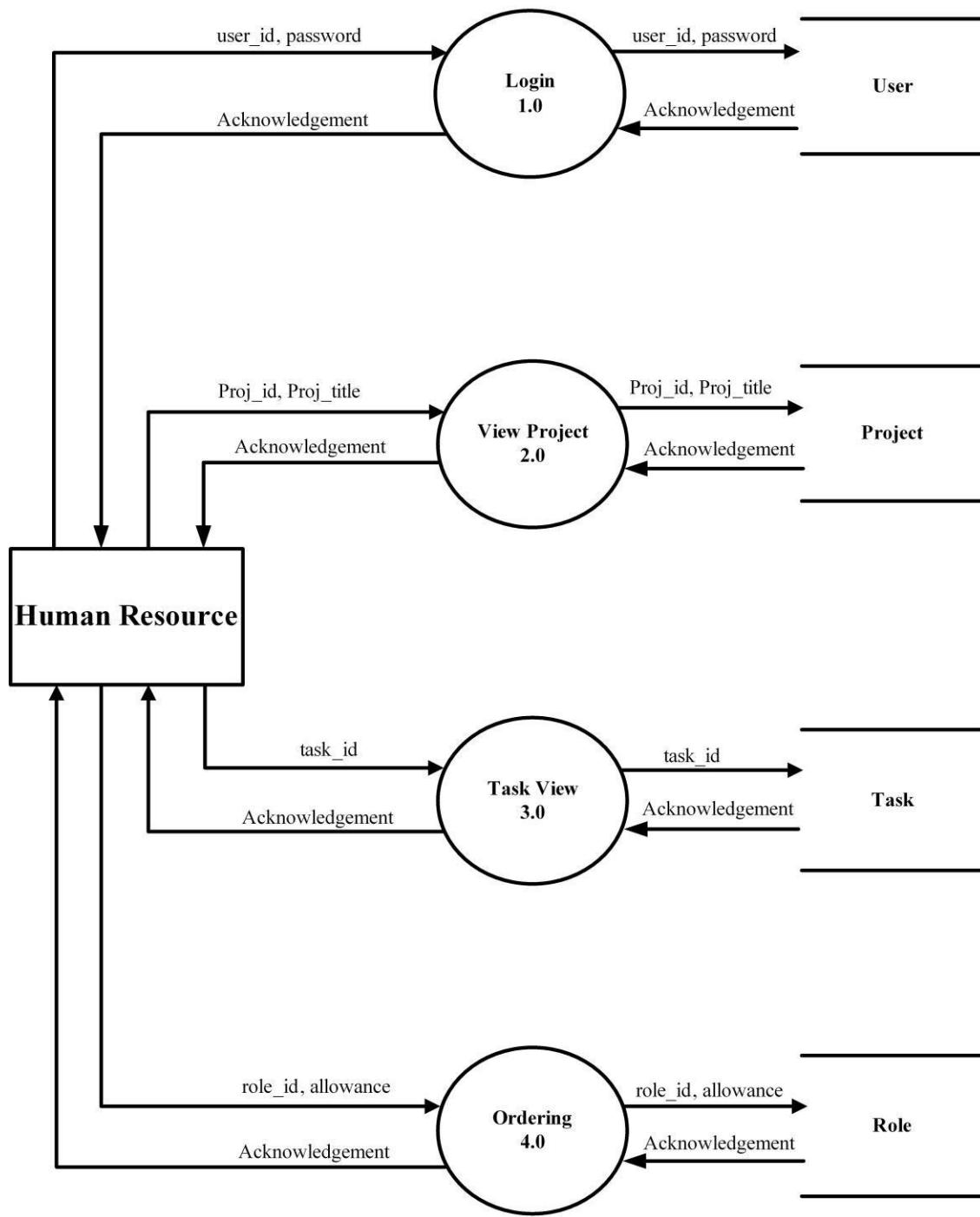
[Figure 2: Context Level]

## Level 1: Admin



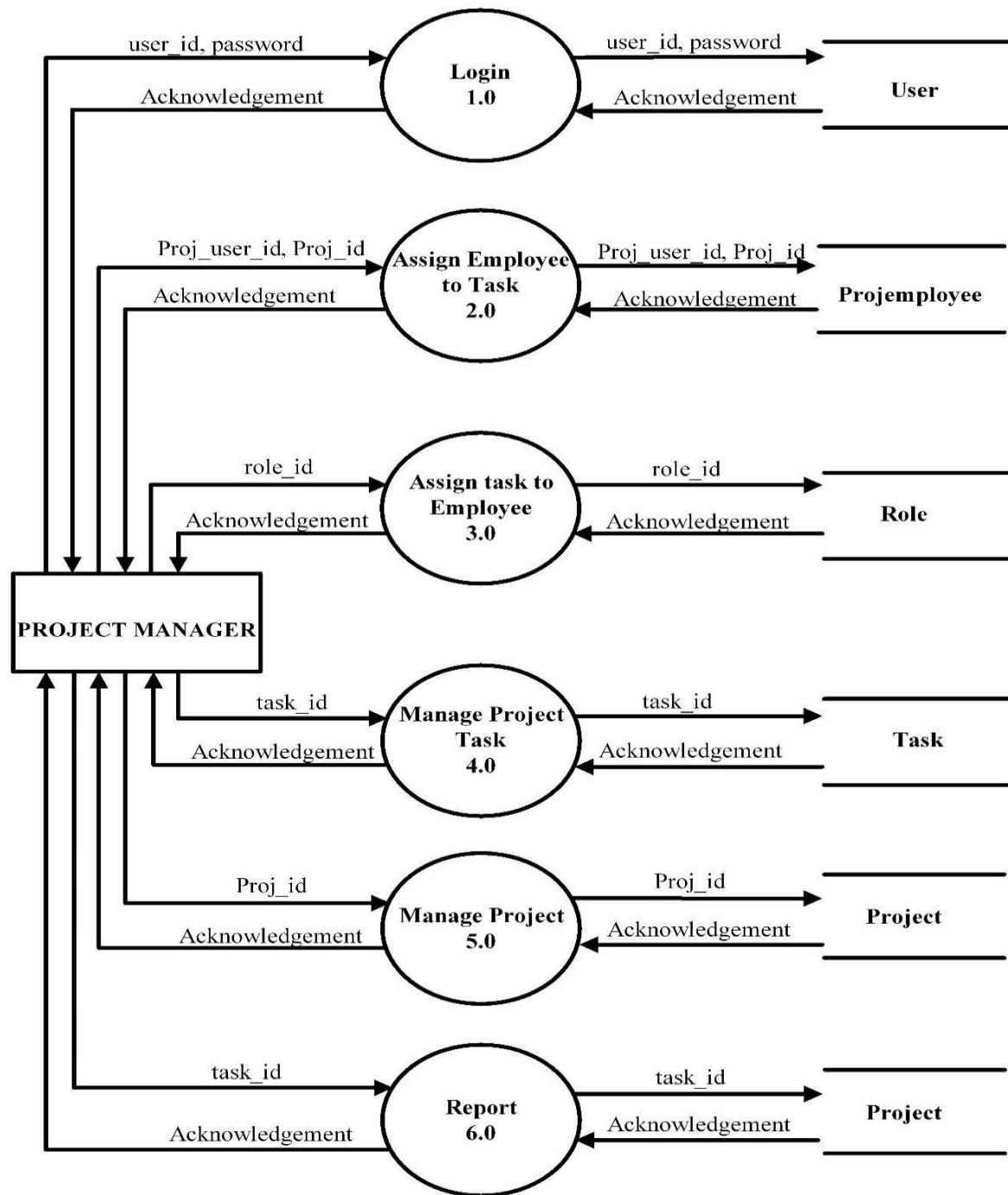
[Figure 3: Admin]

## Level 1: Human Resource



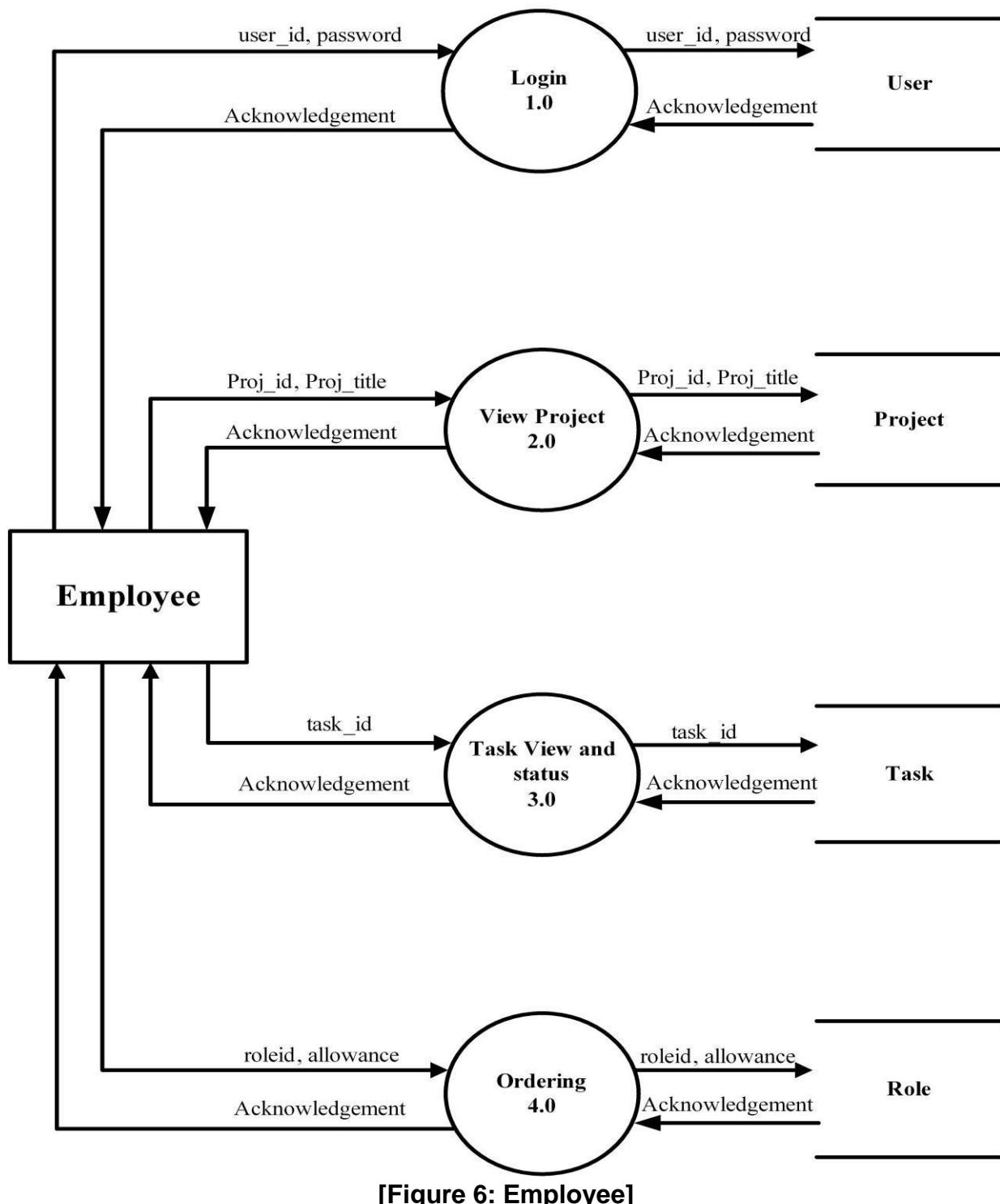
[Figure 4: Human Resource]

## Level 1: Project Manager



[Figure 5: Project Manager]

## Level 1: Employee

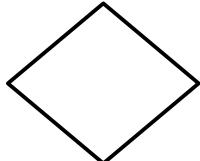


[Figure 6: Employee]

## 3.6 ER-Diagram

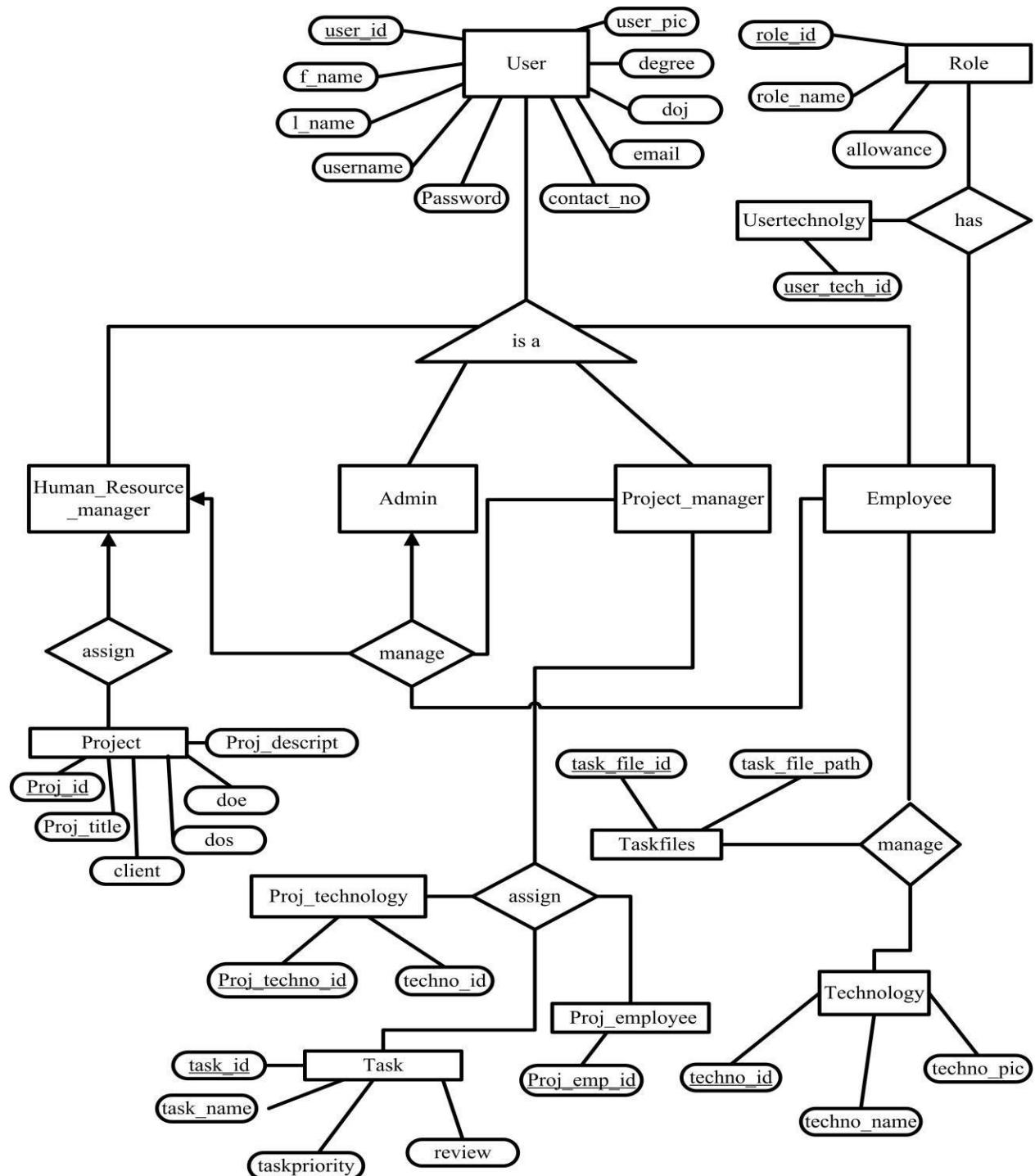
An Entity Relationship Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system. ER Diagrams are most often used to design or debug relational databases in the fields of software engineering, business information systems, education and research. Also known as ERDs or ER Models, they use a defined set of symbols such as rectangles,

diamonds, ovals and connecting lines to depict the interconnectedness of entities, relationships and their attributes. They mirror grammatical structure, with entities as nouns and relationships as verbs.

Symbols	Description
	<b>Entity:</b> Data object is real world entity or thing.
	<b>Attributes:</b> An attribute is property of characteristic of an entity.
	<b>Relationship:</b> Entities are connected to each other via relations. Generally, relationships are binary because there are two entities related to each other.
	<b>Cardinality (One to One):</b> An instance of entity A can relate to one only instance of B and vice versa.
	<b>Cardinality (One to Many):</b> An instance of entity A can relate to one or many instances of B but can only relate one instance of A.
	<b>Cardinality (Many to One):</b> Many instances of entity A can relate to one instance of entity B and vice versa.
	<b>Cardinality (Many to Many):</b> One or more instances of entity A can relate to one or more instances of entity B and vice versa.

[Table 3: ER-Diagram Symbols]

## ER Diagram:



[Figure 7: ER Diagram]

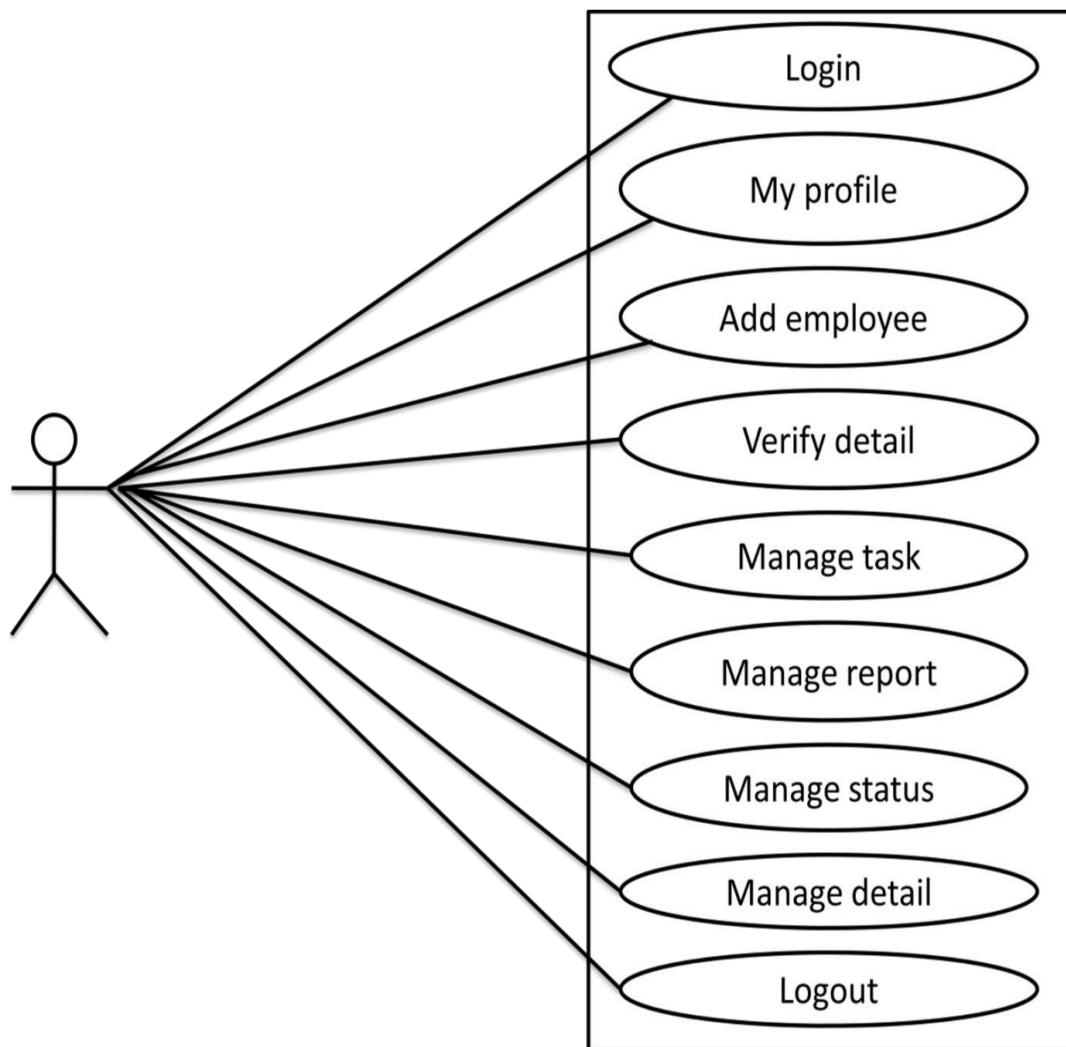
### 3.7 Use Case Diagram

In software and systems engineering, a use case is a list of steps, typically defining interactions between a role (known in UML as an "actor") and a system, to achieve a goal.

The actor can be a human or an external system. There are two types of use case diagram

1. Actor: -It represents users of the system; include human users and other system.
2. User Cases: It represents functionality or service provided by system to uses.

#### 1. ADMIN



**Fig: - Use Case Diagram for Admin**

## 2. HUMAN RESOURCE (HR)

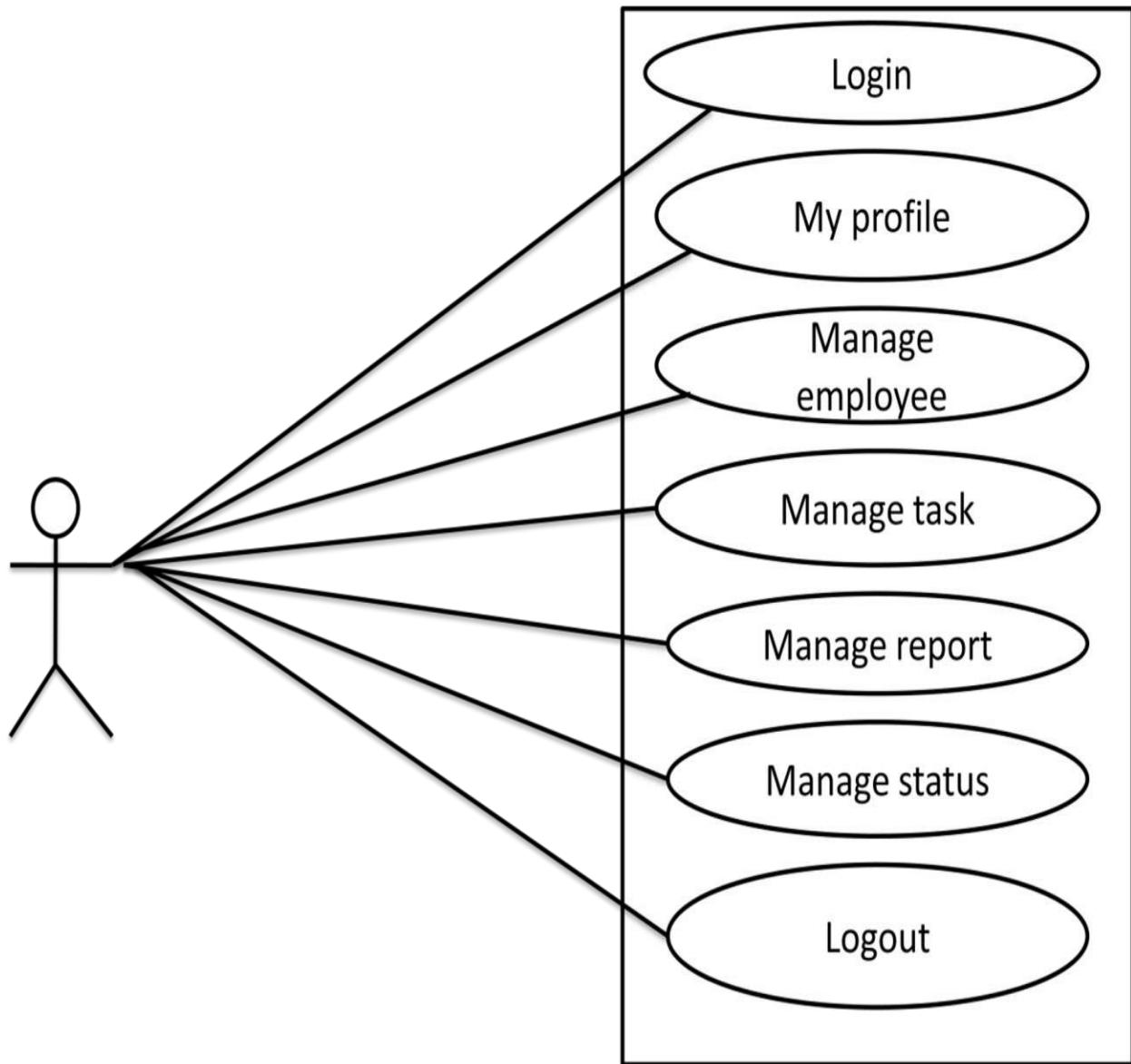
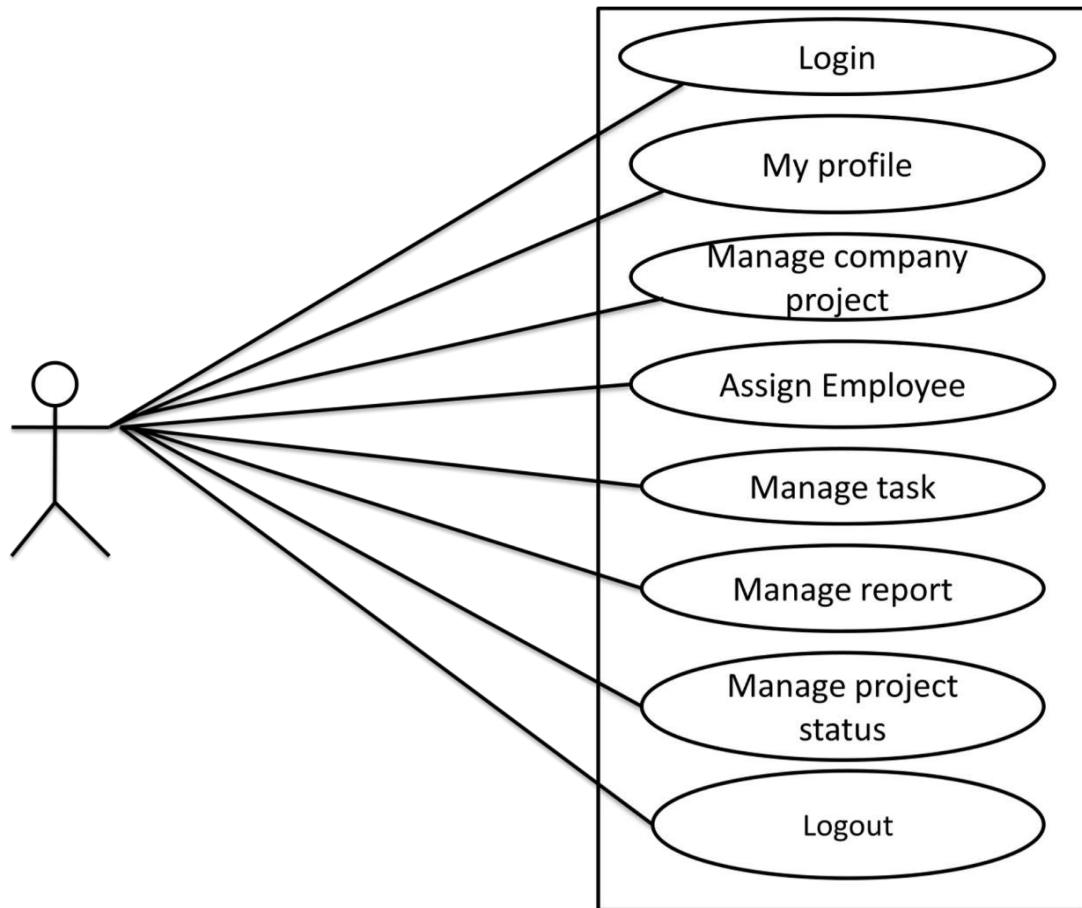


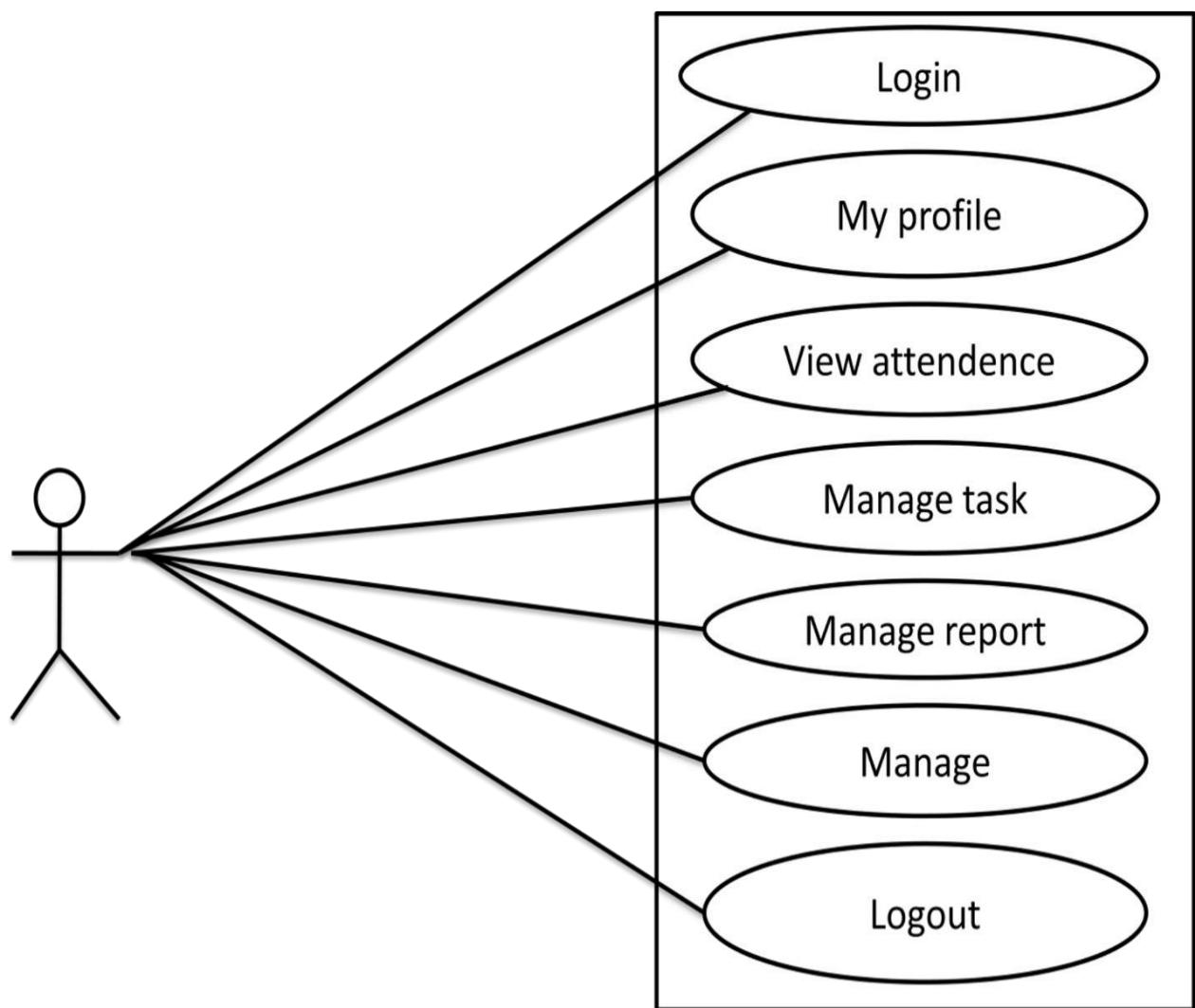
Fig: - Use Case Diagram for HR

### 3. PROJECT MANAGER



**Fig: - Use Case Diagram for Project Manger**

#### 4. EMPLOYEE



**Fig: Use Case Diagram for Employee**

## CHAPTER 4 DATA DICTIONARY

### 4.1 BASIC OF DATA DICTIONARY

Data Dictionaries are an integral component of analysis, since data flow diagram by him or she does not fully describe the subject of the investigation.

A data dictionary is a catalogue of the element in a system. This element centers on data and the way they are structured to meet user's requirements and needs. The major elements are data flows, data stores and processes. Data dictionary stores details and descriptions of these elements.

It is developed during data analysis and assists analysis involved in determining the system. Four main reasons of analysis are:

- To manage the details in large system.
- To communicate a common meaning for all system elements.
- To document the features of the system.
- To locate the errors and omissions in the system.

The data dictionary contains two types of descriptions as following:

1. Data Elements: The most fundamental data level is the data element. Data element is the building block for all others in the system.
2. Data Structure: A data structure is a set of items that are related to one another that describes components in the system.

#### 1. Table Name: **User**

Primary Key: user\_id      Foreign Key: role\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
user_id	Int	30	Primary key	user identification code.
f_name	Varchar	30	Not Null	user first name
l_name	Varchar	30	Not Null	user last name
username	Varchar	30	Not Null	user username
password	Varchar	30	Not Null	user password
contact_no	Varchar	13	Not Null	user contact no

Email	Varchar	40	Not Null	user email id
Doj	Date	-	Not Null	user join date
Roleid	Int	30	Foreign key	user role in company
Degree	Varchar	25	Not Null	user degree
user_pic	Varchar	40	Not Null	user pic

[Table 4: User]

## 2. Table Name: **User\_technology**

Primary Key: user\_tech\_id Foreign Key: user\_id, tech\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
user_tech_id	Int	30	Primary key	User technology id
user_id	Int	30	Foreign key	User id
technoid	Int	30	Foreign key	Technology id

[Table 5: Usertechnology]

## 3. Table Name: **Project**

Primary Key: Proj\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Proj_id	Int	30	Primary key	Project id
Proj_title	Varchar	50	Not Null	Project title
Proj_logo	Varchar	250	Not Null	Project logo
Client	Varchar	30	Not Null	Client
Dos	Date	-	Not Null	Date of start
Doe	Date	-	Not Null	Date of end
Proj_descript	Varchar	250	Not Null	Project description

[Table 7: Project]

4. Table Name: **Proj\_employee**

Primary Key: Proj\_emp\_id Foreign key: Proj\_id, user\_tag\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Proj_emp_id	Int	30	Primary key	Project user id
Proj_id	Int	30	Foreign key	Project id
user_tag_id	Int	30	Foreign Key	user tag id
Dos	Date	-	Not Null	Date of start
Doe	Date	-	Not Null	Date of end

[Table 7: Proj\_employee]

5. Table Name: **Proj\_technology**

Primary Key: Proj\_techno\_id Foreign key: Proj\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Proj_techno_id	Int	11	Primary key	Project technology id
techno_id	Int	11	Not Null	Technology id
Proj_id	Int	11	Foreign key	Project id

[Table 8: Proj\_technology]

6. Table Name: **Role**

Primary Key: role\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
role_id	Int	30	Primary key	Role id
role_name	Varchar	30	Not Null	Role name
allowance	Int	6	Not Null	Allowance

[Table 9: Role]

7. Table Name: **Task**

Primary Key: task\_id

Foreign key: Proj\_emp\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
task_id	Int	30	Primary key	task id
task_name	Varchar	40	Not Null	task name
task_priority	varchar	30	Not Null	Task priority
Proj_emp_id	Int	30	Foreign key	Project user id
Dos	Date	-	Not Null	Date of start
Doe	Date	-	Not Null	Date of end
review	varchar	30	Not Null	Task reviews

[Table 10: Task]

8. Table Name: **Taskfiles**

Primary key: task\_file\_id Foreign key: task\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
task_file_id	Int	30	Primary key	Task file id
task_id	Varchar	30	Foreign key	Role name
task_file_path	Varchar	6	Not Null	Task file path

[Table 11: Taskfiles]

9. Table Name: **Technology**

Primary Key: techno\_id

FIELD_NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
techno_id	Int	30	Primary key	Technology id
techno_name	Varchar	50	Not Null	Technology name
techno_pic	varchar	40	Not Null	Technology picture

[Table 12: technology]

# CHAPTER 5 TESTING

## 1. HOME PAGE

The screenshot shows a web browser window with the title "Form Elements - HOME PAGE". The address bar displays "localhost/smart/hr/home.php". The page content includes a blue header bar with the text "WELCOME TO B.S.P TECHNOLOGIES" and navigation links for "CONTACT US", "ABOUT US", and "INQUIRY NOW". Below the header is a large photograph of a person's hands writing in a spiral notebook on a wooden desk. To the right of the photo, the text "WELCOME TO B.S.P TECHNOLOGIES" is displayed in large blue letters, followed by smaller text: "ADMIN PROJECT MANAGER HUMAN RESOURCE EMPLOYEE".

## 2. CONTACT PAGE

The screenshot shows a web browser window with the title "Form Elements - HOME PAGE". The address bar displays "localhost/smart/hr/contact.php". The page content includes a blue header bar with the text "WELCOME TO B.S.P TECHNOLOGIES" and navigation links for "CONTACT US", "ABOUT US", and "INQUIRY NOW". Below the header, the text "CONTACT INFORMATION" is centered in red. The page then lists three sections with input fields: "ADDRESS:" (containing the address "Ganesh Meridian.Opp. Kargil Petrol Pump,S.G.Highway,Ahmedabad-380060"), "CONTACT NUMBER:" (containing the number "(+91)7575659209"), and "EMAIL ID:" (containing the email "SES@bsptech.com").

### 3. ABOUT US

The screenshot shows a web browser window with the title bar "Form Elements - HOME PAGE". The address bar displays "localhost/smart/hr/aboutus.php". The page content starts with a blue header bar containing a leaf icon and the text "WELCOME TO B.S.P TECHNOLOGIES". On the right side of the header are links for "CONTACT US", "ABOUT US", and "INQUIRY NOW". Below the header, the main content area has a red title "ABOUT US". A paragraph of text describes the company's mission and services.

BSP Technologies is that offers custom creative Work at affordable rates. Our goal is to become an invaluable extension of your marketing department, allowing your business to grow and perform at its best. We will not disappoint the expectations of our clients and we will tend to offer them everything that suits their needs. In BSP Technologies we are talking about the demand so that we have a clear idea of what our client has in mind. This clear idea is then translated into the clear image by our work, we also offer our professional and valuable suggestions to help refine the ideas.'

### 4. ADMIN: ADMIN LOGIN PAGE

The screenshot shows a web browser window with the title bar "Login Page". The address bar displays "localhost/smart/admin/loginuser.php". The page content features a logo for "B.S.P TECHNOLOGIES" and a login form titled "Please Enter Your Information". The form includes fields for "Username" (containing "deep026") and "Password", a "Remember Me" checkbox, and a "Submit" button. Below the form is a link "I forgot my password". The background of the page is dark.

## 5. ADMIN PROFILE PAGE

The screenshot shows a web browser window titled "Form Elements - ADMIN" with the URL "localhost/smart/admin/adminprofile.php". The page has a blue header bar with the text "WELCOME TO ADMIN PANEL". On the left, there's a sidebar with links for "My Profile", "Add Employee", and "Logout". The main content area displays a user profile for "deep26". It includes a thumbnail image of a man in a suit, a blue ribbon banner below it with the name "deep26", and a table with the following data:

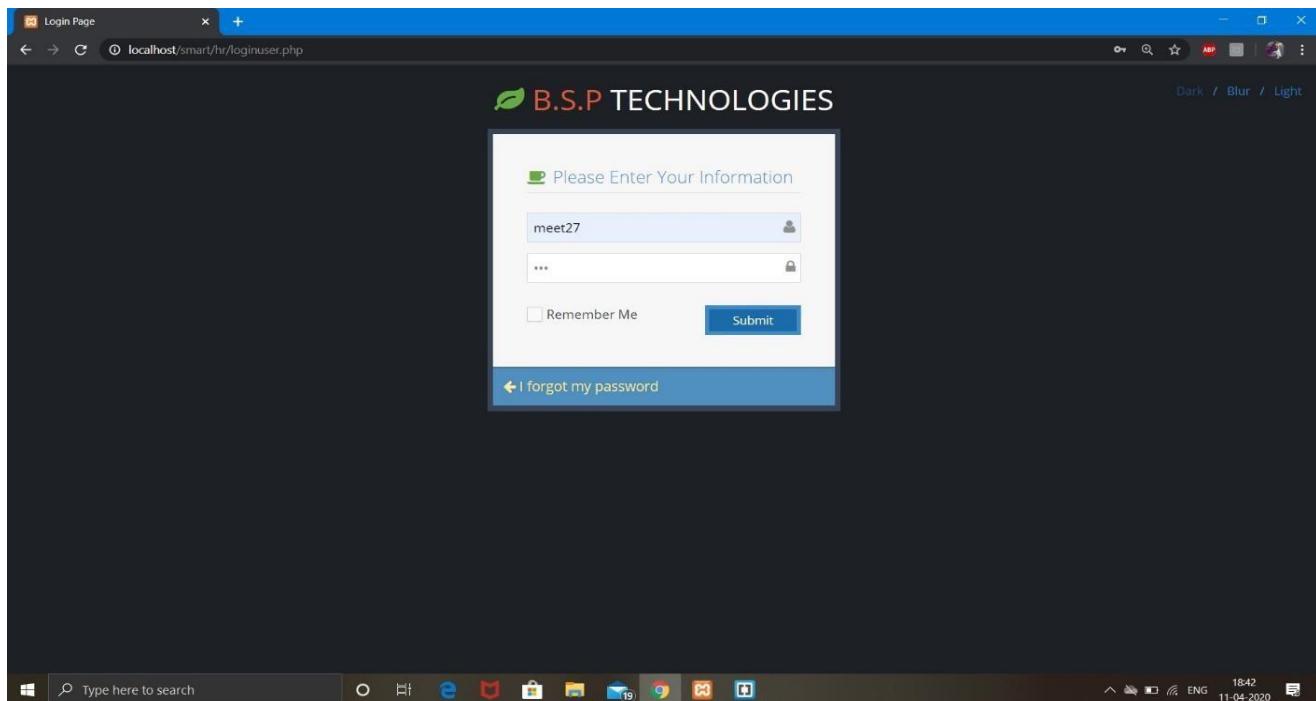
First Name:	Deep
Last Name:	patel
User Name:	deep26
Password:	abc
Contact No:	987654321
Email ID:	deep26@gmail.com
Date of Joined:	2017-01-07
Role ID:	5
Degree:	mtech
User Pic:	26.jpg

At the bottom of the page, there's a footer with the text "Ace Application © 2013-2014" and social media icons for Twitter, Facebook, and RSS. The Windows taskbar at the bottom shows several open files and the date/time as 11-04-2020 18:35.

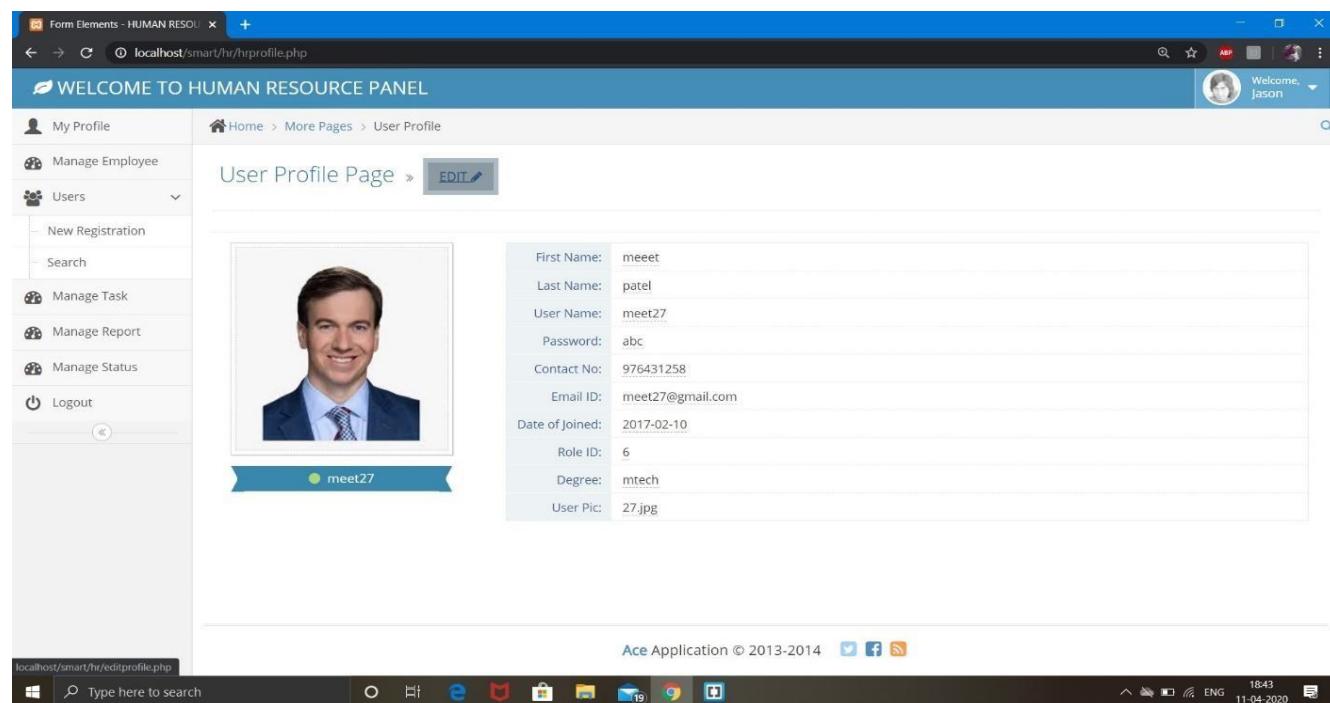
## 6. ADMIN EDIT PROFILE PAGE

The screenshot shows a web browser window titled "Form Elements - ADMIN" with the URL "localhost/smart/admin/editprofile.php". The page has a blue header bar with the text "WELCOME TO ADMIN PANEL". The sidebar on the left is identical to the previous screenshot. The main content area shows an "EDIT PROFILE" form with the same user information as the previous page, but the "Contact No:" field is highlighted with a yellow background. Below the form are two buttons: "submit" and "Reset". The Windows taskbar at the bottom shows several open files and the date/time as 11-04-2020 18:37.

## 7. HUMAN RESOURCE: HR LOGIN PAGE



## 8. HR PROFILE PAGE



## 9. HR EDIT PROFILE PAGE

The screenshot shows a web browser window titled "Form Elements - HUMAN RESOU". The URL is "localhost/smart/hr/editprofile.php". The page header says "WELCOME TO HUMAN RESOURCE PANEL" and includes a user profile picture and the text "Welcome, Jason". On the left, there's a sidebar with links: "My Profile", "Manage Employee", "Users" (with "New Registration" and "Search" options), "Manage Task", "Manage Report", "Manage Status", and "Logout". The main content area is titled "EDIT PROFILE" and contains a form with the following fields and values:

First Name:	meet
Last Name:	patel
User Name:	meet27
Password:	abc
Contact No:	976431258
Email ID:	meet27@gmail.com
Date of Joined:	2017-02-10
Role ID:	6
Degree:	mtech
User Pic:	27.jpg

At the bottom of the form are two buttons: "Submit" (blue) and "Reset" (grey). The status bar at the bottom of the screen shows "Ace Application © 2013-2014" and system information like "1845 11-04-2020".

## 10. SEARCH PAGE

The screenshot shows a web browser window titled "Form Elements - HUMAN RESOU". The URL is "localhost/smart/hr/search.php". The page header says "WELCOME TO HUMAN RESOURCE PANEL" and includes a user profile picture and the text "Welcome, Jason". On the left, there's a sidebar with links: "My Profile", "Manage Employee", "Users" (with "New Registration" and "Search" options), "Manage Task", "Manage Report", "Manage Status", and "Logout". The main content area is titled "Search User" and features three green square icons with white symbols:

- A person icon with a magnifying glass over it, labeled "Search By Name".
- A phone receiver icon, labeled "Search By Contact".
- A shopping bag icon, labeled "Search By Department".

The status bar at the bottom of the screen shows "Ace Application © 2013-2014" and system information like "1846 11-04-2020".

## 11. SEARCH NAME PAGE

The screenshot shows a web application titled "WELCOME TO HUMAN RESOURCE PANEL". On the left, there is a sidebar with icons for "My Profile", "Manage Employee", "Users" (with "New Registration" and "Search" sub-options), "Manage Task", "Manage Report", "Manage Status", and "Logout". The main content area is titled "SEARCH NAME". It features a search bar with the placeholder "Name a" and a "search" button. Below the search bar is a table with columns: name, email, degree, userpic, and view. The table contains five rows of data:

name	email	degree	userpic	view
Ayushi Patel	ayushi03@gmail.com	m.tech		<input checked="" type="checkbox"/>
Aarohi Shah	aarohi13@gmail.com	m.tech		<input checked="" type="checkbox"/>
Ayush Nagar	ayush14@gmail.com	b.tech		<input checked="" type="checkbox"/>
Anjali Jain	anjali15@gmail.com	diploma		<input checked="" type="checkbox"/>
Ami Parikh	ami21@gmail.com	BCA		<input checked="" type="checkbox"/>

## 12. SEARCH CONTACT PAGE

The screenshot shows a web application titled "WELCOME TO HUMAN RESOURCE PANEL". On the left, there is a sidebar with icons for "My Profile", "Manage Employee", "Users" (with "New Registration" and "Search" sub-options), "Manage Task", "Manage Report", "Manage Status", and "Logout". The main content area is titled "SEARCH CONTACT". It features a search bar with the placeholder "Name 98" and a "search" button. Below the search bar is a table with a single column: contactno. The table contains six rows of data:

contactno
985236471
989802990
987654200
986745320
987654321
986532147

## 13. SEARCH DEPARTMENT PAGE

The screenshot shows a web application titled "WELCOME TO HUMAN RESOURCE PANEL". On the left, there is a sidebar with the following menu items:

- My Profile
- Manage Employee
- Users
  - New Registration
  - Search
- Manage Task
- Manage Report
- Manage Status
- Logout

The main content area is titled "SEARCH DEPARTMENT". It displays a table with the following data:

name	email	rolename	userpic	view
Ayushi Patel	ayushi03@gmail.com	Tester		<input checked="" type="checkbox"/>
Charmy Desai	charmy02@gmail.com	Tester		<input checked="" type="checkbox"/>
Aamhi Shah	aamhi12@gmail.com	Tester		<input checked="" type="checkbox"/>
Yash Shah	yash18@gmail.com	Tester		<input checked="" type="checkbox"/>

Below the table, there is a dropdown menu for "Role Name" with the following options: designer, coder, manager, tester, admin, hr, project manager. The "designer" option is selected. At the bottom, there is a "submit" button.

## 14. PROJECT MANAGER: PM LOGIN PAGE

The screenshot shows a login page for "B.S.P TECHNOLOGIES". The page has a dark theme with a logo at the top. The form fields include:

- A placeholder text "Please Enter Your Information" above two input fields.
- An email input field containing "rajvi28" and a user icon.
- A password input field with a lock icon.
- A "Remember Me" checkbox.
- A "Submit" button.
- A link "I forgot my password" at the bottom of the form.

The browser address bar shows "localhost/smart/pm/loginuser.php". The taskbar at the bottom includes icons for File Explorer, Edge, and other applications. The system tray shows the date and time as "11-04-2020 18:53".

## 15. PM PROFILE PAGE

The screenshot shows a web browser window titled "Form Elements - PROJECT MAN." The URL is "localhost/smart/pm/pmprofile3.php". The page header says "WELCOME TO PROJECT MANAGER PANEL" and "User Profile Page". On the left, there's a sidebar with links: My Profile, Manage Project, Assign Employee, Task, Manage Report, Logout, and Report. The main content area displays a profile picture of a woman with long brown hair, wearing a black blazer over a white top. To the right of the picture are the following user details:

First Name:	Rajvi
Last Name:	Shah
User Name:	rajvi28
Password:	abc
Contact No:	986532147
Email ID:	rajvi28@gmail.com
Date of Joined:	2017-03-15
Role ID:	7
Degree:	mca
User Pic:	28.jpg

At the bottom of the page, it says "Ace Application © 2013-2014" and shows social media icons for Twitter, Facebook, and RSS. The taskbar at the bottom of the screen shows various application icons and the date/time "11-04-2020 1853".

## 16. PROJECT NAMES

The screenshot shows a web browser window titled "Form Elements - PROJECT MAN." The URL is "localhost/smart/pm/pname.php". The page header says "WELCOME TO PROJECT MANAGER PANEL". The left sidebar has the same set of links as the previous screenshot. The main content area displays a grid of project thumbnails:

Advance Mobile Store	Medical Information System	SEEING WITH SOUND Voice Based E-mail For Blind	Android Voting System	Android Blood Bank System
Mobile Ticketing Project	Online Law System	Facial Expression Recognition	SMART TRAVEL Intelligent Tourist Guide	E-BANKING E-Banking Log System

At the bottom of the page, it says "Ace Application © 2013-2014" and shows social media icons. The taskbar at the bottom of the screen shows various application icons and the date/time "11-04-2020 1855".

## 17. PROJECT DETAILS

The screenshot shows a web-based project management system. On the left, a sidebar menu includes 'Task', 'Manage Report', 'Manage Project', 'Logout', and 'Report'. The main content area displays project details: Project Title (Medical Information System), Client (Allengers Infotech), Date Of Start (2018-02-10), Date Of End (2018-04-10), and a detailed Project Description about a medical information system. Below this, a section titled 'Technology Name:' shows icons for PHP and CSS. A grid of employee profiles follows, with columns for Employee's Name and a small thumbnail image. At the bottom are green buttons for 'ADD TECHNOLOGY' and 'ADD EMPLOYEE'. The taskbar at the bottom of the screen shows various application icons.

## 18. ADD EMPLOYEE TO PROJECT

The screenshot shows a list of employees available for addition to a project. Each employee entry includes a profile picture, name, and a list of skills (e.g., PHP, JAVA, ANDRIOD, IOS). To the right of each entry is a green '+ADD' button. The names listed are Parth Vaidya, Neel Patel, Vishwa Shah, Kintur Shah, and Charmy Desai. The taskbar at the bottom shows various application icons.

## 19. ADD TECHNOLOGY TO PROJECT

The screenshot shows a Windows desktop environment with a browser window titled 'Form Elements - PROJECT MANA' and 'localhost/smart/pm/tech.php'. The main content area is titled 'WELCOME TO PROJECT MANAGER PANEL' and displays a 'TECHNOLOGY' section. This section contains five items, each with a small icon and a green '+ADD' button:

- .NET
- MySQL
- PHP
- Java
- AngularJS

The left sidebar includes links for 'My Profile', 'Manage Project', 'Assign Employee', 'Task', 'Manage Report', 'Logout', and 'Report'. The taskbar at the bottom shows various application icons, and the system tray indicates the date as 11-04-2020.

## 20. EMPLOYEE ON CURRENT PROJECT

The screenshot shows a Windows desktop environment with a browser window titled 'Form Elements - PROJECT MANA' and 'localhost/smart/pm/projdetails.php?id=2'. The main content area is titled 'WELCOME TO PROJECT MANAGER PANEL' and displays a 'Medical Information System' section. On the left, there is a sidebar with the same set of links as the previous screenshot. The main area features a large medical-themed illustration and a title 'Medical Information System'. Below this, there is a section titled 'Employee's Name' which lists four employees with their names, roles, and profile pictures:

Employee's Name	
Rahil Shah Coder	
Ayush Nagar Designer	
Jainam Maniyar Manager	
Charmy Desai Tester	

The taskbar at the bottom shows various application icons, and the system tray indicates the date as 11-04-2020.

## 21. TASK TO DO FOR EMPLOYEE

The screenshot shows a web-based project management system. On the left, a sidebar menu includes options like 'My Profile', 'Manage Project', 'Assign Employee', 'Task', 'Manage Report', 'Logout', and 'Report'. The main content area features a header 'Advance Mobile Store' with a sub-header 'Advanced Mobile Store System' and three mobile device icons. To the right is a placeholder for a profile picture with the text 'Designer' below it. Below this is a form titled 'Add Task:' with fields for 'make page', 'Emp Id: 2', 'Date Of Start: 05-02-2018', 'Date Of End: 06-02-2018', and 'Task Priority: High'. A 'submit' button is highlighted with a blue box. At the bottom is a table showing task details:

Task Name	Task Priority	ProjEmp Id	Date Of Start	Date Of End	Date Of Actual End	Reviews
design login form	Normal	2	2018-01-04	2018-01-07	2018-01-07	work completed on time
design a front page	Normal	2	2018-01-07	2018-01-09	2018-01-09	work done on time
design index page	Normal	2	2018-01-10	2018-01-12	2018-01-12	work done before time

The task 'make page' has been added to the list.

## 22. EMPLOYEE: EMPLOYEE LOGIN PAGE

The screenshot shows a dark-themed login page for 'B.S.P TECHNOLOGIES'. The header features the company logo and name. The main form is titled 'Please Enter Your Information' and contains fields for 'Username' (jeel02) and 'Password' (\*\*\*). There is a 'Remember Me' checkbox and a 'Submit' button. Below the form is a link 'I forgot my password'. The page is set against a dark background with light-colored text and buttons.

## 23. EMPLOYEE PROFILE PAGE

The screenshot shows a web application titled "Form Elements - USER". The URL is "localhost/smart/employee/eniprofile.php". The page header says "WELCOME TO USER PANEL" and shows a welcome message for "Welcome, Jason". On the left, there's a sidebar with navigation links: My Profile, Manage Employee, User (with New Registration and Search), My Project (with Current Project and Completed Project), Manage Report, Manage Status, and Logout. The main content area displays a user profile for "jeel02". It includes a profile picture of a woman, her first name (Jeel), last name (Patel), user name (jeel02), password (abc), contact number (903395859), email ID (jeel02@gmail.com), date of joining (2018-01-20), role ID (1), degree (b.tech), and user pic (2.jpg). At the bottom, there's a blue banner with "jeel02". The footer shows the application copyright "Ace Application © 2013-2014" and social media links for YouTube, Facebook, and Twitter. The taskbar at the bottom shows various open applications and the date/time "11-04-2020 20:00".

## 24. EMPLOYEE CURRENT PROJECT DETAILS

The screenshot shows a web application titled "Form Elements - USER". The URL is "localhost/smart/employee/current.php". The page header says "WELCOME TO USER PANEL" and shows a welcome message for "Welcome, Jason". On the left, there's a sidebar with navigation links: My Profile, Manage Employee, User (with New Registration and Search), My Project (with Current Project and Completed Project), Manage Report, Manage Status, and Logout. The main content area displays a project titled "Advance Mobile Store". It includes a thumbnail image of the project, its title (Advance Mobile Store), client (Way Infotech), start date (2018-01-01), end date (2018-03-01), and a project description: "In this Advanced mobilesystem we can store mobile data on database. in thid Module we can store data like id, mobile name, brand,ram,short Description and price. we can also store payment information into database like mobile order id,mobile id, cus". The taskbar at the bottom shows various open applications and the date/time "11-04-2020 20:06".

## **CHAPTER 6 CONCLUSION**

Smart Employee System is a good system introduced which helps HR & Employee connect online it helps both Employee & Management to co-ordinate online for their requirements as training, leave, future development of Employee & Management.

Manual management can create error. But data saved in system work smartly without any error. This type of Smart Employee System acts as a boon to industry.

Due to this Smart Employee System industry, company or any organization can work smartly without any default or error.

## **CHAPTER 7 BIBLIOGRAPHY**

### **Definition**

"A bibliography is a list of the sources you used in your research. It is usually included as a separate page or pages at the end of your assignment and titled "Bibliography," "References," or "Works Cited."

### **Task 1: Assemble sources**

Assemble all your source notes into a single list, alphabetized by author's last name.

Sources that don't have authors (articles, for example) should be alphabetized by title.

### **Task 2: Format List**

Go through and properly format each item in your source list according to an accepted bibliographic style.

### **Website Referred**

1. www.en.m.wikipedia.org
2. www.codeproject.com