

A PROJECT REPORT ON
**“EMPLOYMENT CENTERED CONTENT
CREATION SITE”**

In fulfilment for the award of the degree of

DIPLOMA ENGINEERING

In

COMPUTER ENGINEERING

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Grow More Faculty of Diploma Engineering, Himmatnagar**

2022-23

Grow More Faculty of Diploma Engineering, Computer Engineering

Certificate

Date: _____ / _____ / _____

This is to certify that entitled has been carried “EMPLOYMENT CENTERED CONTENT CREATION SITE” out by Gandhi Devang & Khatik Ajay under my guidance in fulfilment of the Diploma of Engineering in Information & Technology Engineering (5th Semester) of Gujarat Technological University, Ahmadabad during the academic year 2022-23.

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Finally, at the outset we would like to thank all those who have directly or indirectly helped us accomplish our project successfully.

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ABSTRACT

This Website Will Help Employers to Find Skilled Employees and Job Seekers to Showcase Their Skills and Creativity Get Their Dream Job with An Amazing Feature of Social Network They Can Post Images Videos of Showcasing Their Skills and Their Past Works and Achievements and the Individual can upload videos and even courses and the course certificate will be provided by us

LIST OF SYMBOLS, ABBREVIATIONS, AND NOMENCLATURE

Symbol	Operation
<p>Class</p> <p>Visibility</p> <ul style="list-style-type: none"> Public → + name : String Protected → # roll : Integer Private → - section : String <p>Attributes</p> <p>Operations</p> <p>Responsibilities</p> <p>-- Manage student in a class ← Extra component (This is not mandatory)</p>	Class
 <i>Generalization</i> <i>Inheritance</i> <i>Composition</i> <i>Aggregation</i> <i>Dependencies</i> <i>Properties</i> <i>Multiplicity</i>	1. Generalization 2. Inheritance 3. Composition 4. Aggregation 5. Dependencies 6. Properties 7. Multiplicity
	Terminal (Start or Stop)
	Flow Lines or Arrow
	Input / Output

	Decision
	Connector
	Actor
	Use Case
	Relationship
	Object
	Lifeline



ABBREVIATIONS

TERM	DEFINATION
HTML	-Hyper Text Mark-up Language
WWW	-World Wide Web
SQL	-SQL (Structured Query Language) Server Management Studio Express (SQL Server 2005)
CSS	-Cascading style sheet
LAN	-Local Area Network
OS	-Operating System
PHP	-Personal home Page / Hypertext Preprocessor
RAM	-Random Access Memory
MB	-Mega Bytes
GB	-Giga Bytes
Mbps	-Megabits per second
HDD	-Hard Disk Drive

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CHAPTER 1. INTRODUCTION

1.1 Problem Summery

In the problem summary of “EMPLOYMENT CENTERED CONTENT CREATION SITE” in existing system the student has to acquire skills at different place and sometimes it could get costly so and with not recognition if it free or from YouTube and then more self-learn and then and if someone want to show their teaching skills with no long registration is impossible and the to get views is very hard and getting job from form is a hard part too and then you earn some money

The Main purpose and Objective of Our Web Application is to Help some create educational content and learn in free and get Certified and getting jobs at one place they can create job openings easily job seekers can easily apply for jobs and internships

1.2 Scope

The Scope of our website is to help Individual learn, teach, hire, and get job at same place with single login easily

1.3 Project Features

There are three main Individuals and one Admin:

- Visitor
- Individual
- Business
- Admin

Back-End Tool:

Admin:

Admin can manage everything like Individuals, companies, delete data, verify Individuals, manage reports, suspends Individuals access from website, give certificates, delete all data on the webpage, can login and logout.

Individual:

Individual Can Register, Login, search jobs, post jobs for Business, can apply for jobs can watch videos and playlist, can get certificates, can report wrong things to admin, can like videos, can comment on videos, manage own profile, delete own profile and content.

Visitor:

Visitor can visit Home Page, can visit about page, can register,

Business:

Login, manage profile, hire candidates, post jobs, select hirers, make videos, see videos, like and comment on videos, report wrongful actions to admin, apply for verification, manage own profile, delete own content.

1.4 Technology and Literature Review

Tools: The software tools used in the development of this application are:

- Visual Studio Code
- HTML, CSS, bootstrap as Frontend Development
- PHP Backend Scripting Language
- JavaScript jQuery as client-side scripting language
- My SQL Server 5.5.8 as a back-end Database Server
- Microsoft Visio 2007 as a drawing tool
- Microsoft word 2019 as a documentation
- Microsoft PowerPoint 2019 as a presentation
- XAMPP local server for local PHP and SQL server support

Let us under go in detail about various technologies involved...

Features:

- All in one server support by XAMPP
- Bootstrap making pages responsive with less CSS code
- jQuery to make it much easier to use JavaScript and for frontend form validations
- Visual studio code is a multipurpose IDE which is light on system so it runs smoothly

Back-End Tool:

My SQL Server 5.5.8:

My SQL Server 5.5.8 is a comprehensive, integrated data management and analysis software that enables organization to reliability manages mission-critical information and confidently run complex business application.

Features:

With MySQL Server 5.5.8, Individuals and IT Professional across your organization will benefit from reduced application downtime, increased scalability and performance, and tight yet flexible security controls.

1.5 Function Specification

Visitor:

- Visitor can visit home page.
- Visitors can visit about page
- Can register on our Web site
- Can login if already registered

Customer:

- Individual can Login
- Individual can Registration.
- Individual Can Search Scrap Piker.
- Individual Can Create Pickup Booking.
- Individual Can Complete Booking List.
- Individual Can Print Sell Receipt.
- Individual Can Donate Product.
- Individual Can Generate Report.

Admin:

- Admin Can Login
- Admin Can Manage Category
- Admin Can Manage Sub Category
- Admin Can Manage Donate Product.
- Admin Can Manage Scrap Piker.
- Admin Can Manage Booking Pickup Order.
- Admin Can Manage Customers.
- Admin Can Manage Complete Pickup Order.
- Admin Can Mange Report.

Business

- Business can register.
- Business can Login.
- Business can manage profile
- Business Can upload course
- Business can select Hirers
- Business can post jobs
- Business can hire candidates
- Business can chat with applicants

1.6 Functional Requirement

Software Requirements:

SERVER SIDE

- Platform: PHP
- Back End Tools: MY SQL Server 5.5.8
- Operating System: Windows 2007 or Upper Version
- Web Server: APACHE
- Stable internet connection

CLIENT SIDE

- Browser Support: Internet Explorer 8 or upper or any other equivalent
- Stable internet connection

Hardware Requirements:

SERVER SIDE

- **Processer: Intel i3 or upper or any other equivalent**
- **Hard disk: 50 GB (minimum)**
- **RAM: 4GB(Minimum)**
-

CLIENT SIDE

DEVICE COMPUTER

- Processer: Intel i3 dual co
- Hard disk: 256 GB or Higher
- RAM: 512MB

DEVICE PHONE

- Storage: 8GB
- RAM: 1GB
- Dual core processor
- WEB Browser

Servers/ Database:

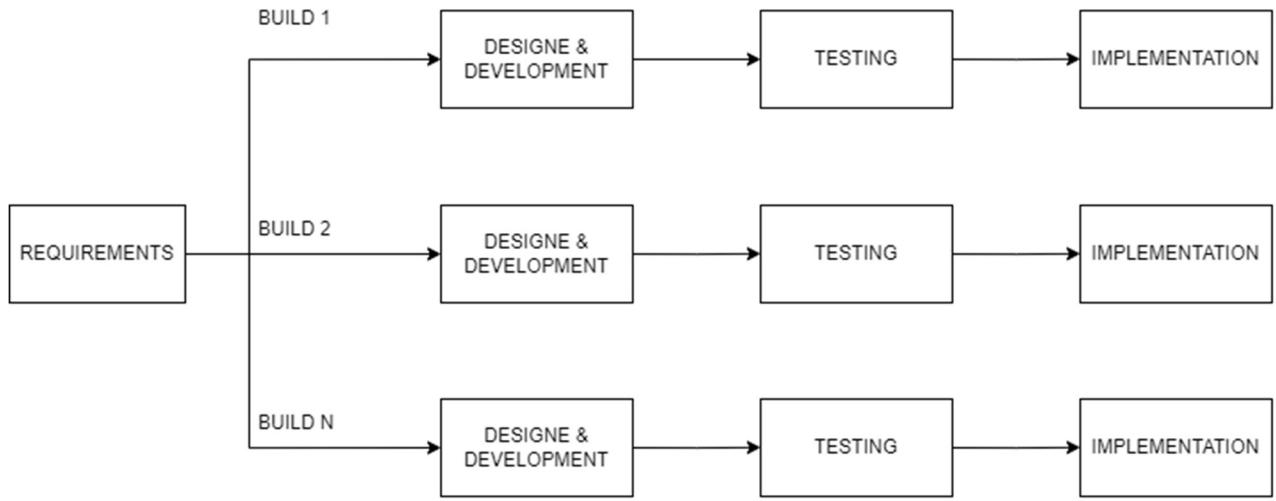
- My SQL Server 5.5.8

Software Used:

- Visual Studio Code

1.7 Non-Functional Requirement and Individual Constraints:

- **Individual Interface** - When Individual and Business log out from the web & application, Individual and Business will be navigated to their corresponding login page. And if Individual and Business want to navigate on lastly accessed page (previous page from where they had logged out) then Individual cannot navigate to that previous page.
- **Communication Interface**- The portal needs to interact with different set of applications and portals.
- **Criticality of the Application**-If the system is of lower configuration and the Individual operates on larger Forms or database then there may be chances of memory overflow. This problem is mainly related with operating system memory management but we can neglect it for regular operation of software.
- **Safety & Security consideration**-The passwords provided by the Individuals are passed in encrypted format. The facility of making password stronger is also provided like combinations of characteristics, symbols and numbers will create a strongest password which cannot be hacked by hacker. Security to move on different pages (web forms) of the system is also provided. Unauthorized Individuals cannot access to the administrator panel.
- **Hardware Limitations**-This topic includes hardware requirements for installing the Net Beans 8.2, My SQL server 2012, Microsoft office 2013, and Microsoft Visio 2007. The computer on which you install these software's should meet the following system requirements.



INCREMENTAL LIFE CYCLE

Figure 1 Incremental Life Cycle Model

CHAPTER 2. SYSTEM MANAGEMENT

2.1 System Model Project Development Approach:

In incremental model the whole requirement is divided into various builds. Multiple development cycles take place here, making the life cycle a “multi-waterfall” cycle. Cycles are divided up into smaller, more easily managed modules. Each module passes through the requirements, design, implementation and testing phases. A working version of software is produced during the first module, so you have working software early on during the software life cycle. Each subsequent release of the module adds function to the previous release. The process continues till the complete system is achieved.

2.2 Advantages of Incremental Model:

- Generates working software quickly and early during the software life cycle.
- This model is more flexible – less costly to change scope and requirements.
- It is easier to test and debug during a smaller iteration.
- In this model customer can respond to each built.
- Lowers initial delivery cost.

CHAPTER 3. SYSTEM ANALYSIS

3.1 Study of Current System:

In the problem summary of “EMPLOYMENT CENTERED CONTENT CREATION SITE” in existing system the student has to acquire skills at different place and sometimes it could get costly so and with not recognition if it free or from YouTube and then more self-learn and then and if someone want to show their teaching skills with no long registration is impossible and the to get views is very hard and getting job from form is a hard part too and then you earn some money

3.2 Problem and Weakness of Current System:

We have visited in to some web site like linked.com <https://www.linked.com/> and Youtube.com <https://www.youtube.com> and the limitations are:

- Both are two different platform
- YouTube learning have no certification
- LinkedIn offers courses but Individuals have to pay for that
- Self-learning is hard without recognition
- No guarantee for jobs after learning from YouTube

3.3 Requirement of the new system:

- Combine job searching and learning on one platform
- Individuals needed to be encouraged for uploading content
- In new system web application support multiple language
- Advance search option
- Web based application
- No need of any software installation, as requires only browsers
- Can operate from any computers connected to internet.
- Can operate on smart phones/tablets through responsive design

This evaluation determines whether the technology needed for the proposed system is available or not. This is concerned with specifying and satisfying the individual requirements. The technical needs of the system may include front-end and backend-selection. An important issue for the development of a project is the selection of suitable front-end and back-end. Based on some aspects, we select the most suitable platform that suits the needs of the organization.

Operational Feasibility:

The present system is easily understandable. The individuals are presented with friendly individual interface that helps them to understand the flow of the system more easily. Maximum transparency has been provided. The new system is very much individual friendly and operational cost is bearable.

Requirement validation examines the specifications to ensure that all system requirements have been stated unambiguously, that inconsistency, omissions, and errors have been detected and corrected; and that work products conform to the standards established for the process, the project and the project. Specified requirement validation was done through meeting with the project leader, senior persons or concerned employees. Checking should be done so that the requirements are stated clearly.

3.4 Functional of System:

The Main Functionality of job search and social media System is:

- Search jobs and apply for them
- Post jobs and hire people
- People will post the content according to their audience and audience will watch that
- This site will bring all three at one platform and content creation will happen according to the market (for example more people want python course) so more python courses will be uploaded

Economic

Feasibility:

For declaring that the system is economically feasible, the benefits obtained from the system has to be rated against the cost incurred to actually develop the system. The following are the benefits that would be derived from the proposed system.

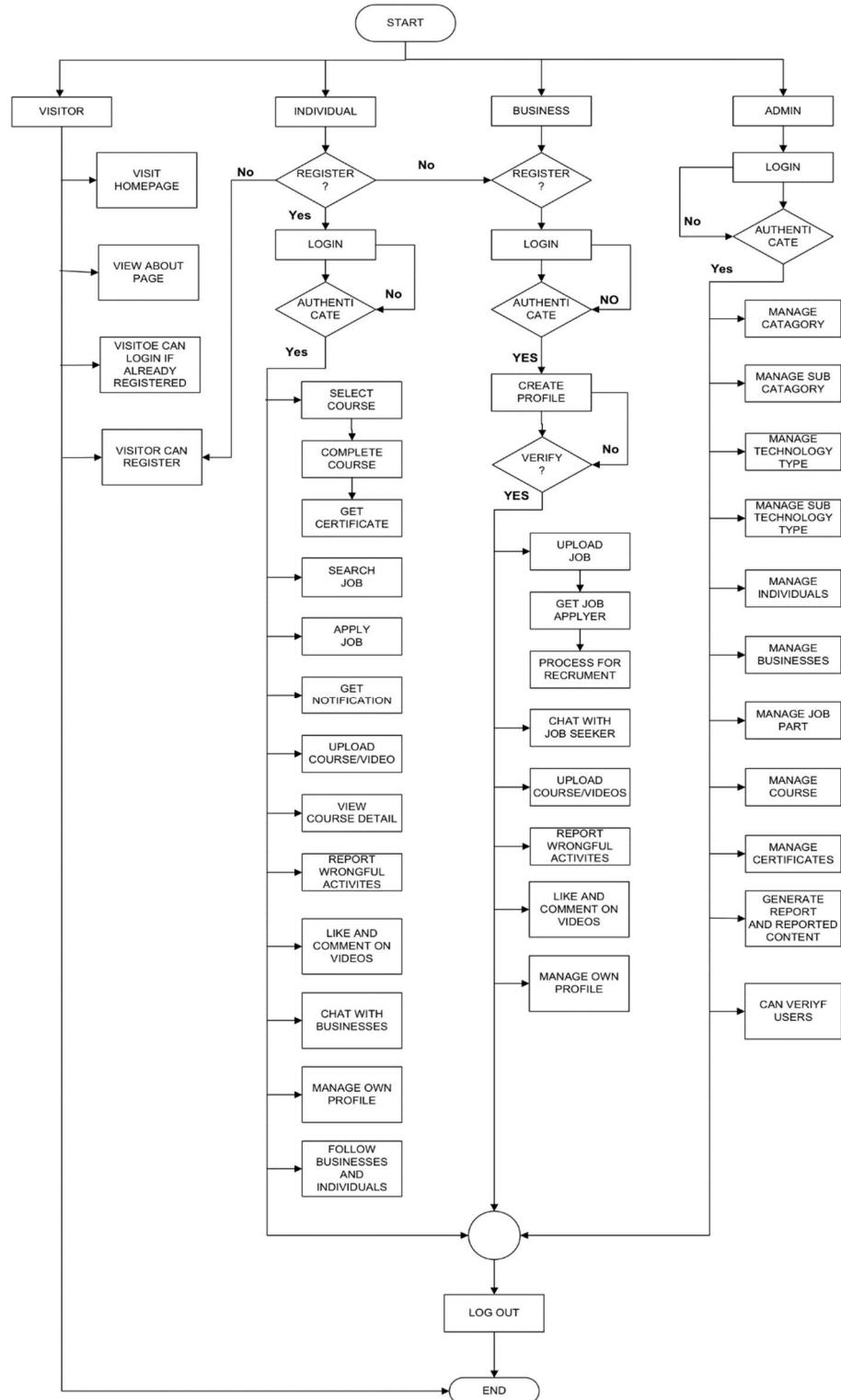
- Saves time of a fresher into getting faster jobs and for free
- Helps hiring talented people for free
- Upload content to show case your teaching skills for free without the hustle of YouTube algorithm

EMPLOYMENT CENTERED CONTENT CREATION SITE

- Benefits like time saving, cost effectiveness are there

3.5 Data Modeling

3.5.1 Flowchart



EMPLOYMENT CENTERED CONTENT CREATION SITE

Figure 2 Flowchart

(The flowchart is missing from the document.)

3.5.2 Use Case Diagram

A use case is a set of scenarios that describing an interaction between a Individual and a system. A use case diagram represents the relationship among actors and use case. The two main components of a use case diagram are use case and actors. Actors are something or someone which exists outside the system under study, and who take part in a sequence of activities in a dialogue with the system, to achieve goal: they may be end Individuals, other systems, or hardware devices.

3.5.2.1 Individual Use case

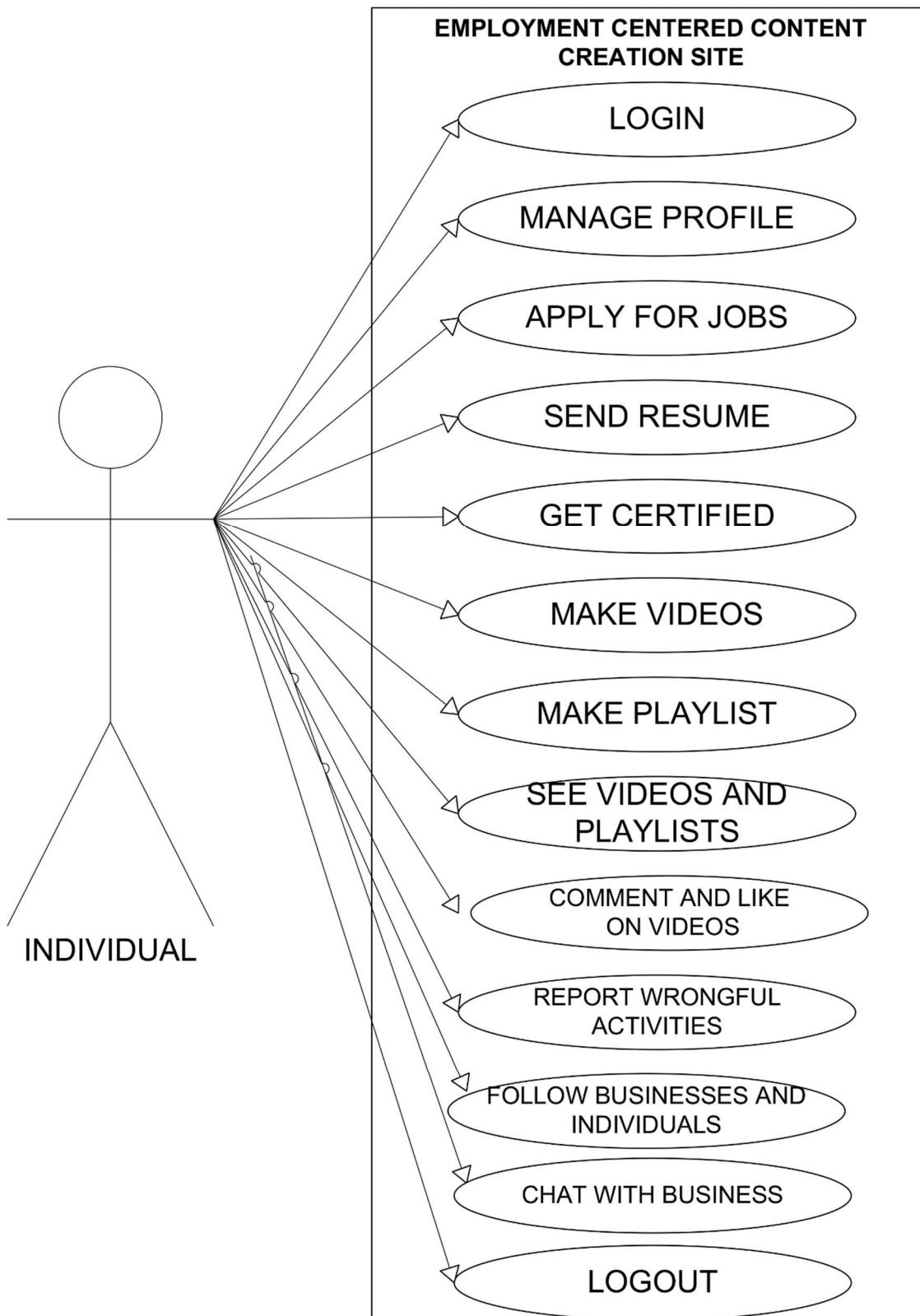


Figure 3 Individual Use case

3.5.2.2 Business Use Case

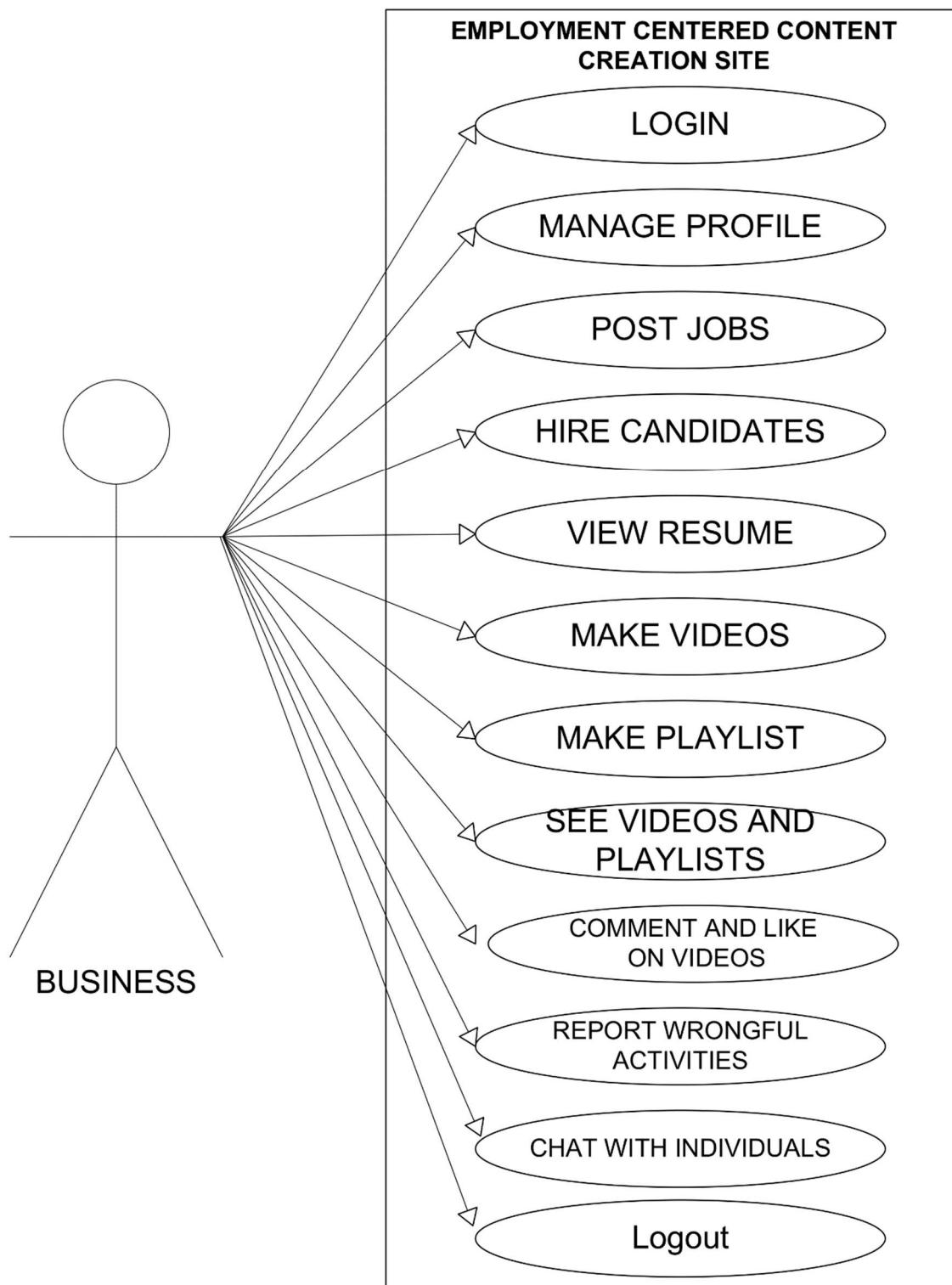


Figure 4 Business Use Case

3.5.2.3 Admin Use Case

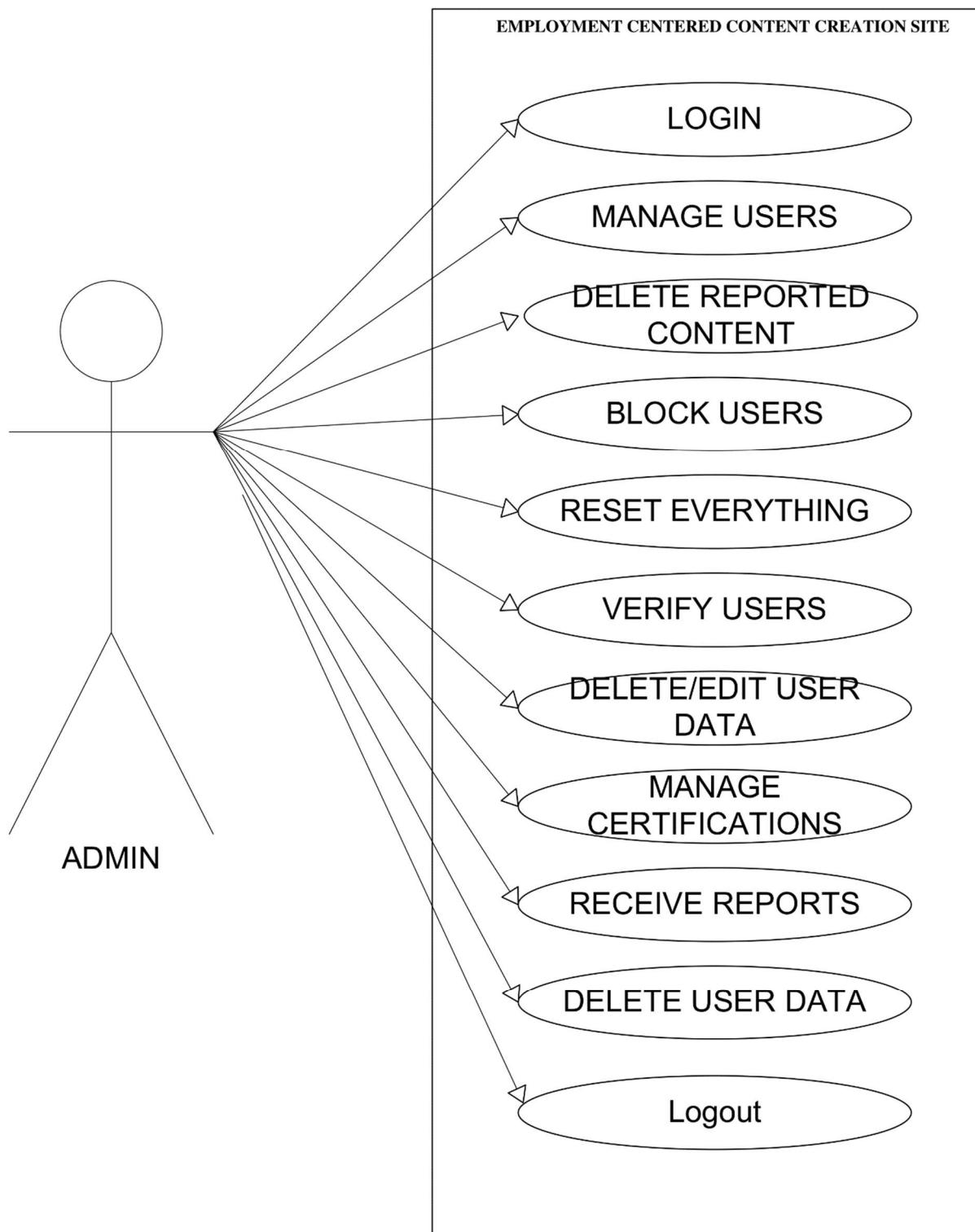


Figure 5 Admin Use Case

3.5.3 Sequence Diagram

It shows object interaction arranged in time sequence. It depicts the object and classes involved in the scenario and the sequence of message exchanged between the objects needed to carry out the functionality of the scenario. Sequence diagram are sometime called as Event Diagram or else Event Scenarios.

3.5.3.1 Admin Sequence

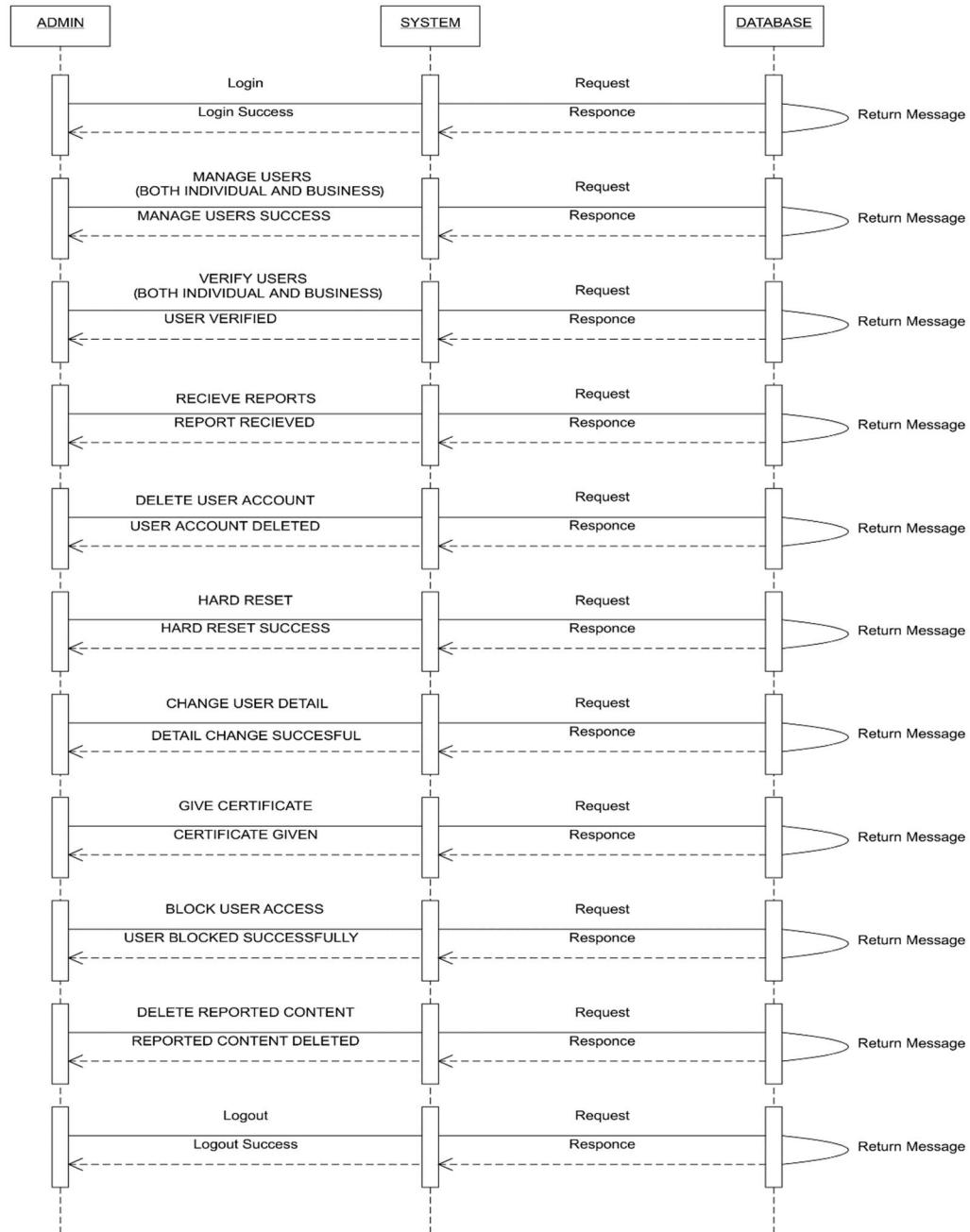


Figure 6 Admin Sequence

3.5.3.2 Individual Sequence

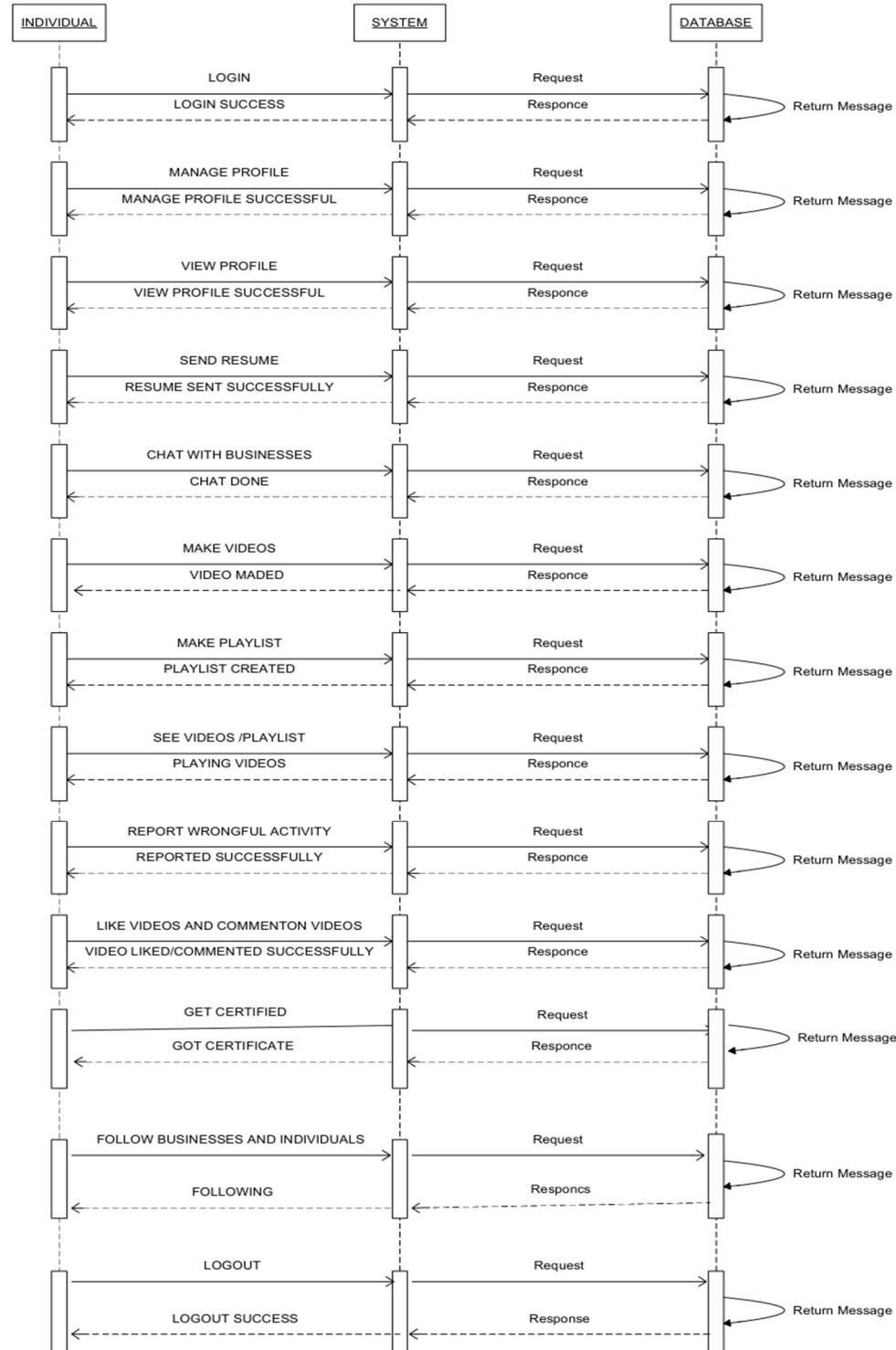


Figure 7 Individual Sequence

3.5.3.3 Business Sequence

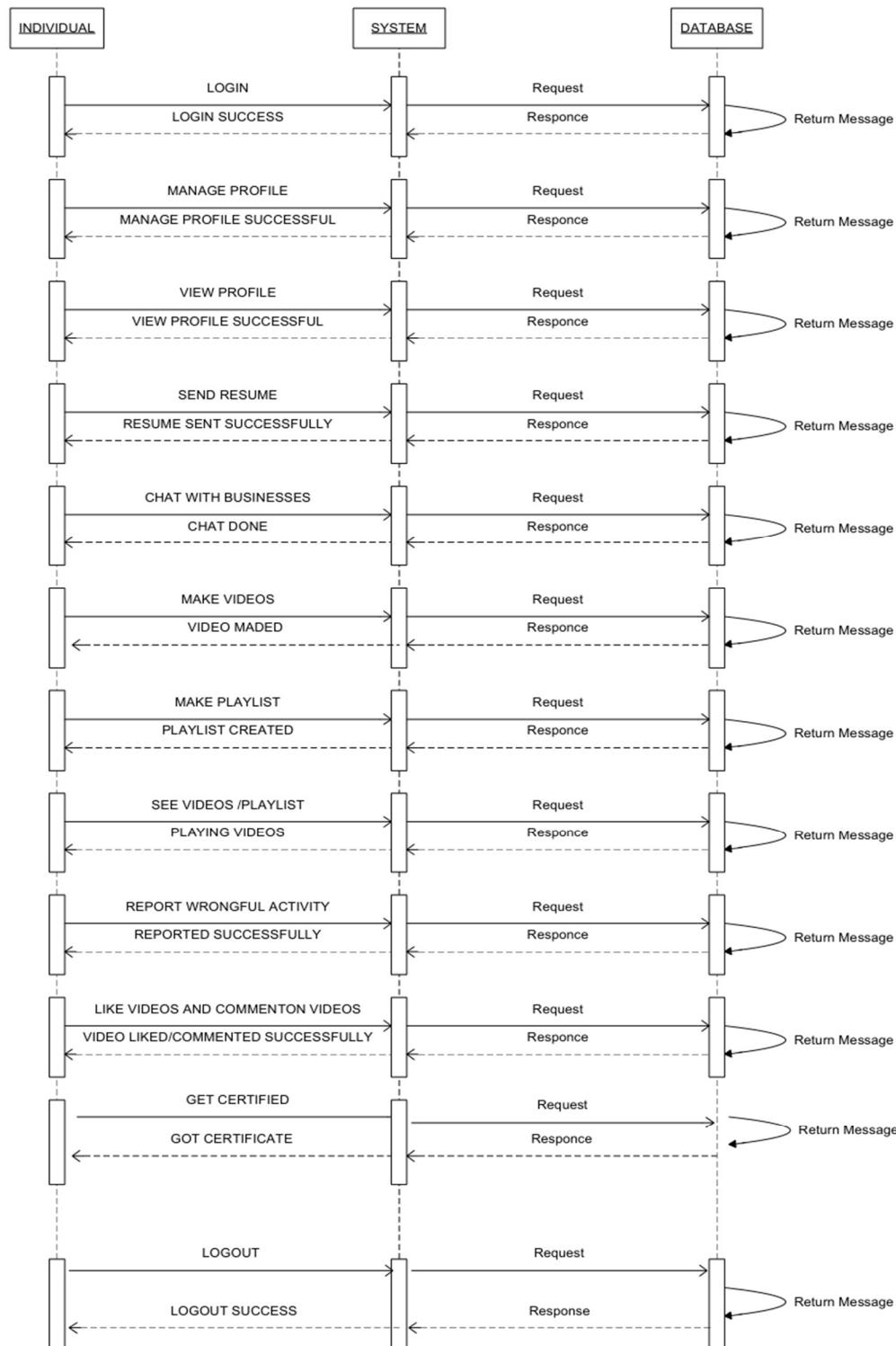


Figure 8 Business Sequence

3.5.4 Class Diagram

Figure 9 Class Diagram

3.5.5 E R Diagram

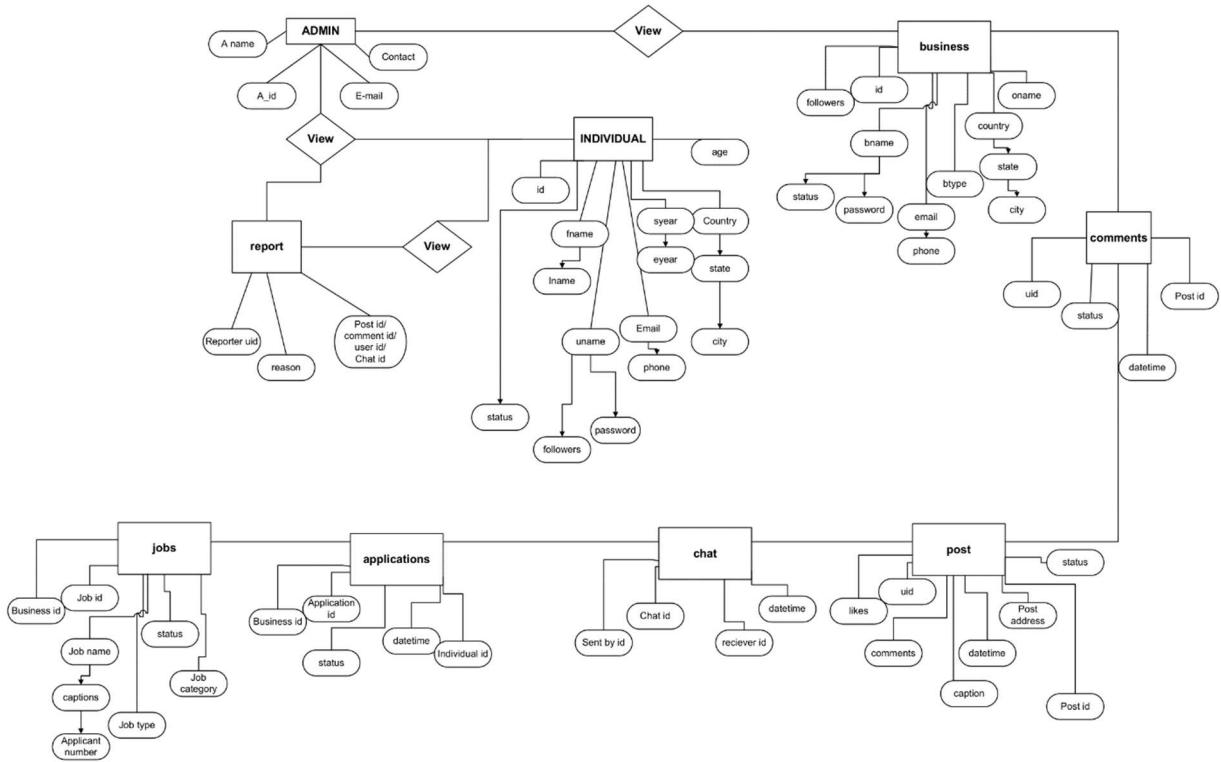


Figure 10 ER Diagram

3.6 Database Design (Data Dictionary)

1) Admin_Master :-

- Table Name :** admin
- Primary Key :** Individual_Id
- Description:** This Table Is Used for Login Information Of Administrator. uname Is Used For Recover Password.

No	Field Name	Data Type	Constrain	Description
1	Individual-Id	Int	Primary Key	Individual Primary Key
2	uname	Varchar	-	Admin username name
3	aname	Varchar	-	Admin name
3	Email	Varchar	-	Individual-Email
4	Password	Varchar	-	Individual-Password
5	Module	Varchar	-	Individual-Module
6	Entry-Date	Date-Time	-	Individual-Entry-Date
7	Update-On	Date-Time	-	Individual-Update-On

Table 1 admin Master Table

2) business_Master :-

- **Table Name :** business
- **Primary Key :** id
- **Description :** This Table Is Used For business

No	Field Name	Data Type	Constrain	Description
1.	bId	Int	Primary Key	bisiness- Primary Key
2.	bname	Varchar	Foreign Key	business Name
3.	oname	Varchar	-	Owner name
4.	City	varchar	Foreign Key	business City
5.	State	varchar	Foreign Key	business State
6.	country	varchar	-	Business country
7.	email	varchar	-	Email address
8.	phone	int	-	Phone number
9.	password	varchar	-	Hashed password
10.	datetime	Date-Time	-	Entry date and time
11	status	int	-	Blocked or not

Table 2 business Master Table

3) Individual Master: -

- **Table Name:** individual
- **Primary Key:** Id
- **Description:** This Table Is Used for individuals.

No	Field Name	Data Type	Constrain	Description
1.	iId	Int	Primary Key	individual-Primary Key
2.	fname	Varchar	Foreign Key	first Name
3.	lname	Varchar	Foreign key	last name
4.	City	varchar	Foreign Key	business City
5.	State	varchar	Foreign Key	business State
6.	country	varchar	-	Business country
7.	email	varchar	-	Email address
8.	phone	int	-	Phone number
9.	password	varchar	-	Hashed password
10.	datetime	Date-Time	-	Entry date and time
11.	uname	varchar	Foreign key	Individual Individualname
12.	Status	int	-	Blocked or not

Table 3 Screp Piker Master Table

4) Jobs master :-

- **Table Name : jobs**
- **Primary Key : Category_Id**
- **Description :** This Table Is Used For Category-Master.

No	Field Name	Data Type	Constrain	Description
1	Job Id	Int	Primary Key	Primary Key
2	Job Name	Varchar	-	Name
3	Job type	Varchar	-	Item
4	Posted by	int	Foreign key	business name Job poster
5	Posted time	Datetime	-	Date and time of job posting

Table 4 jobs master Table

5) Jobs applied master :-

- **Table Name : jobs applied**
- **Primary Key : Sub-Category_Id**
- **Description :** This table will be used to keep record of who applied to which job

No	Field Name	Data Type	Constrain	Description
1	Job Id	Int	Primary Key	Primary key
2	BId	Int	Foreign Key	Business Individual which posted the job

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3	Iid	int	Foreign key	Id of applicant
4	Datetime	Date time	-	Date and time

Table 5 jobs applied Table

6) Chat master:-

- **Table Name : chat**
- **Primary Key : chat id**
- **Description :** This Table Is Used For Cart Order-Id

No	Field Name	Data Type	Constrain	Description
1	Chat id	Int	Primary Key	Chat-Id
2	Individual-Id	Int	Foreign Key	Individual who send message
3	Individual id	Int	Forerign Key	Individual who received the message
4	Datetime	datetime	-	Date and time of that maeeage

Table 6 chat Master Table

7) **Post master:-**

- **Table Name :** posts
- **Primary Key :** post Id
- **Description :** This Table Is Used For storing links of the posts

No	Field Name	Data Type	Constrain	Description
1	Post Id	Int	Primary Key	Final Order Id
2	Individual-Id	Int	Foreign Key	Id of uploader
3	likes	Int	-	Number of the likes
4	Comments	Int	Foreign Key	Number of comments
5	link	varchar	-	Location of the actual content
6	views	int		Number of the views
7	datetime	Date-Time		Date and time of creation
8	status	int		Block or not

Table 7 post Master Table

8) comments:-

- **Table Name:** comments
- **Primary Key:** comment id
- **Description:** This Table Is used for comments on the post

No	Field Name	Data Type	Constrain	Description
1	Comment Id	Int	Primary Key	Comment Id
2	Post id	Int	Foreign Key	Post on which comment was done
3	uId	Int	Foreign Key	Individual id of comment maker Individual
4	status	int	-	Comment blocked or not
5	Date time	Date-Time	-	Date and time of comment done

Table 8 comment Master Table

9) report_Master :-

- **Table Name :** reports
- **Primary Key :** report_Id
- **Description :** This Table Is used for keeping records of report

No	Field Name	Data Type	Constrain	Description
1	Report_id	Int	Primary Key	report Id
2	Individual_id	int	Foreign key	Id of Individual who reported on content
3	Report_content	varchar	-	Link of reported content
4	Report_tittle	Varchar	-	Matter of report
5	Date time	datetime	-	Date and time of report done

Table 9 report master Table

3.7 System Activity

Activity diagrams are graphical representations of workflows of stepwise activities and actions with support for choice, iteration and concurrency. In the Unified Modeling Language, activity diagrams can be used to describe the business and operational step-by-step workflows of components in a system. An activity diagram shows the overall flow of control.

3.7.1 Admin Activity

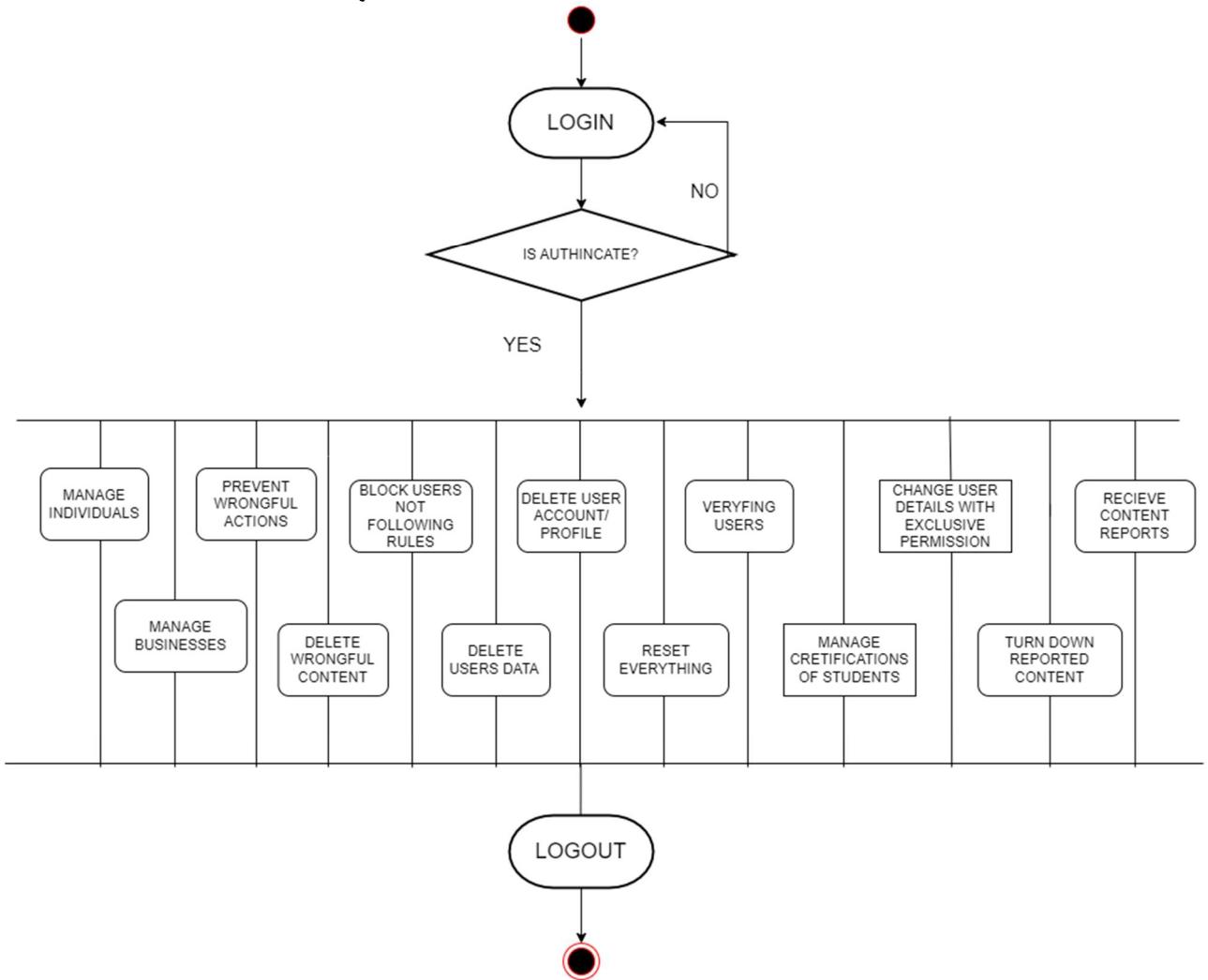


Figure 11 Admin Activity Diagram

3.7.2 Individual Activity

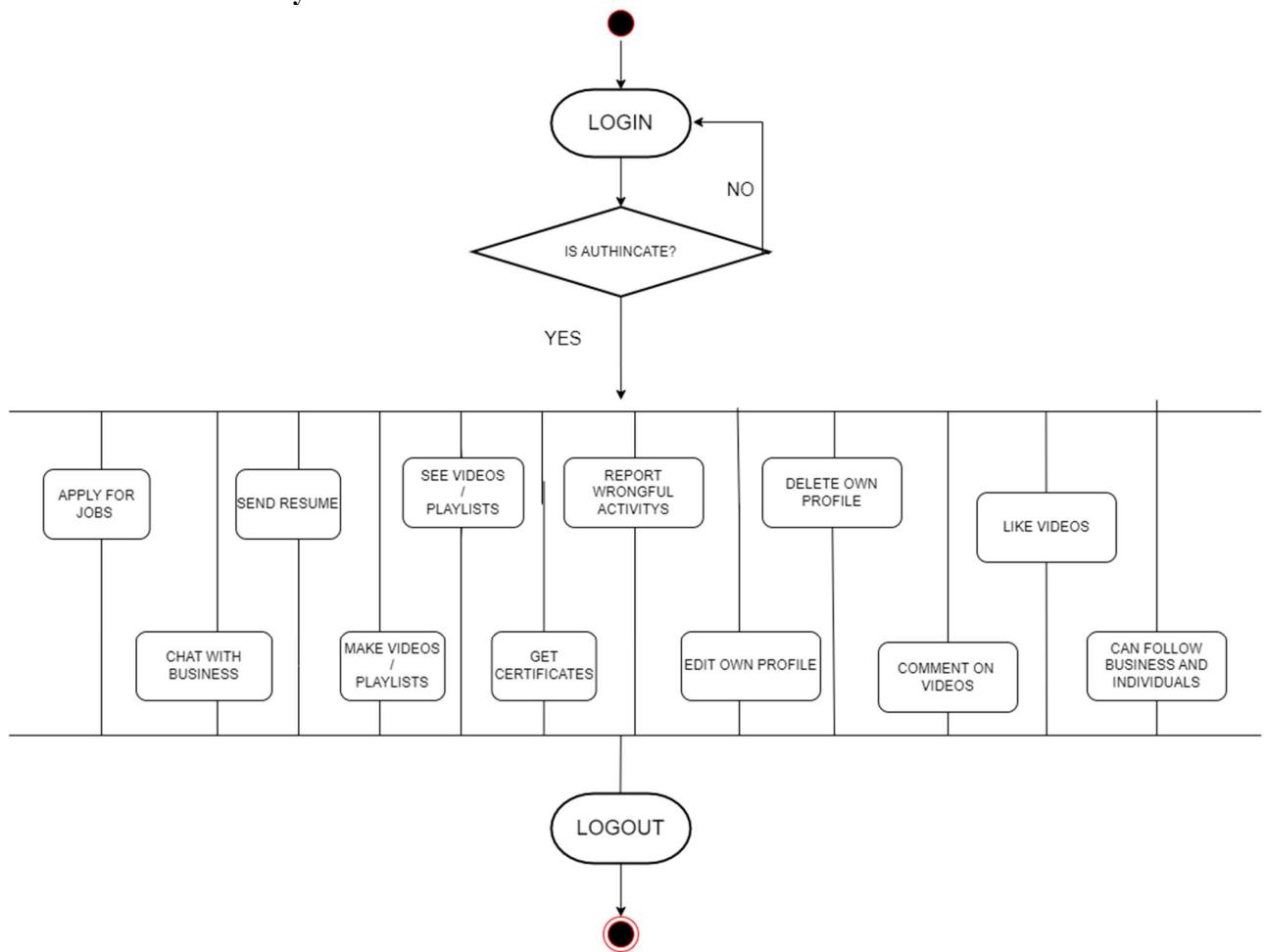


Figure 12 Individual Activity

3.7.3 Business Activity

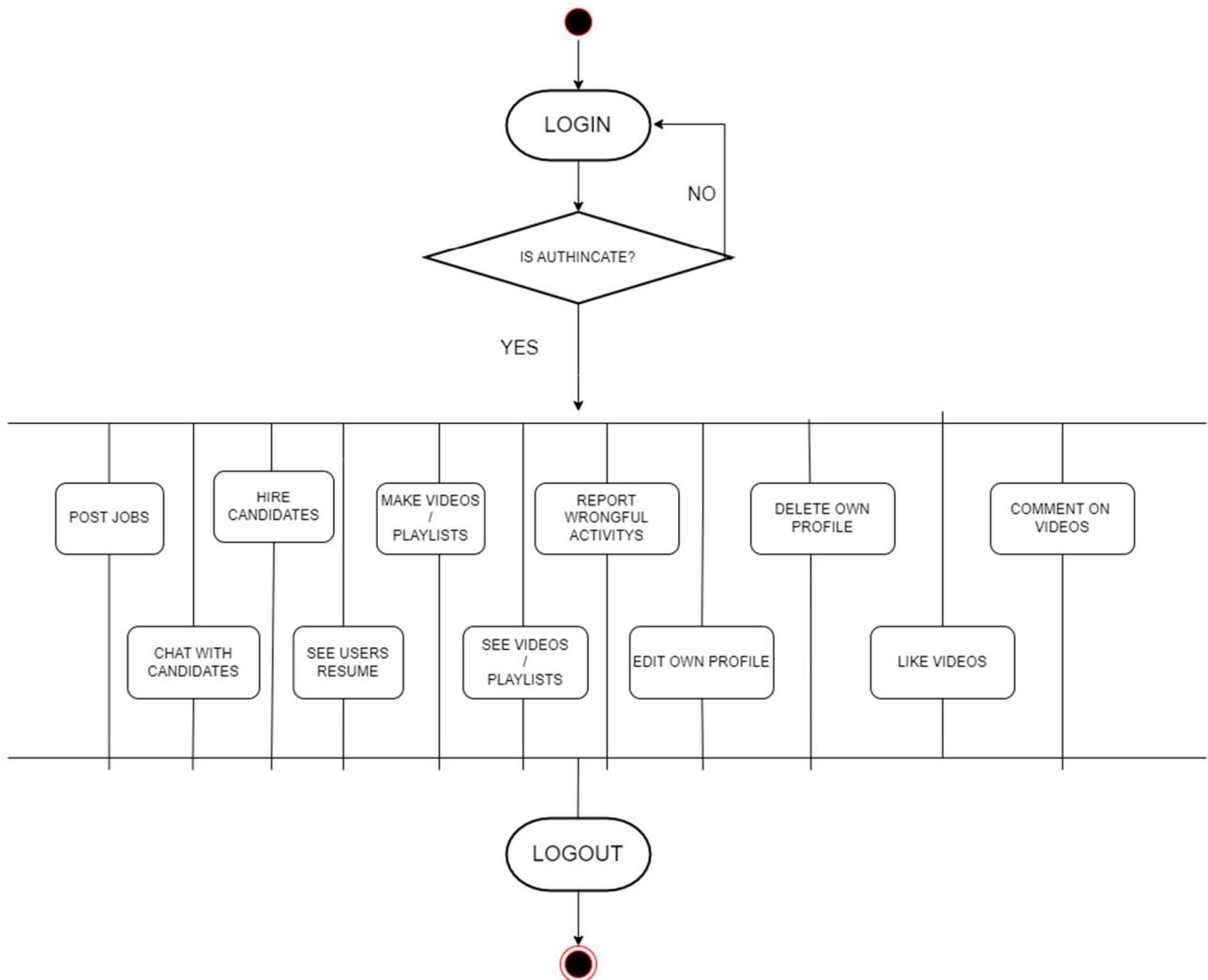


Figure 13 Business Activity

3.7.4 Visitor Activity

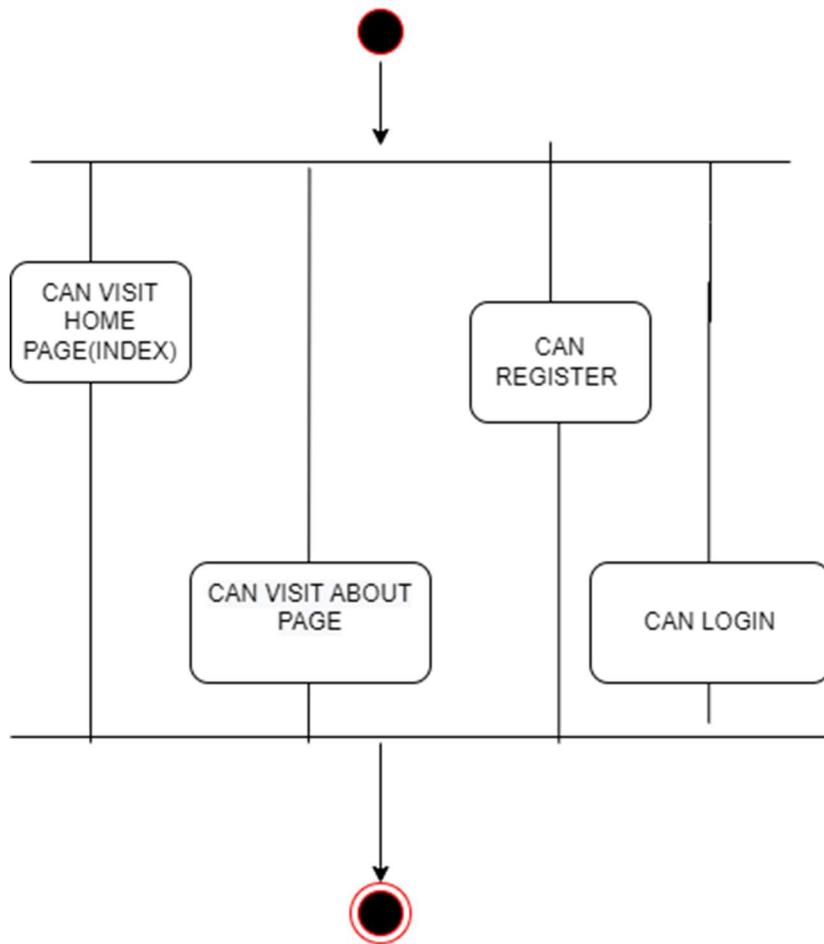


Figure 14 Visitor Activity

3.8 Requirement Validation

- Individualname and Password validation that is compulsory to enter withinsystem (Not for visitor).
- Phone No must be Numeric and length is of maximum 12 (It's Cell no, or landline) Digit.
- Name must be character not in digit.
- Start years must be less than or equal to current running year
- Most of the data are enter from the master table so it also reduces the chances of mismatch data, so no multiple entries.

3.9 Function and Behavioral Modeling

Data Flow Diagrams (DFD) can be used to graphically illustrate the flow of data through a system or model. More generically, Flow Diagrams (or Process Flow Diagrams) can be used to depict the movement and process steps of data, information, people, money, electricity, etc. through a system. The basic concept is a means of showing what goes in (to a system or model), what processes occur (within the system or model) and what comes out. A flow diagram is a graphical means of presenting, describing, or analyzing a process. This is done by drawing small boxes which represent steps or decisions in a chain of steps or decisions. These boxes are connected to other boxes by lines and arrows which represent sequence and dependency relationships (i.e., X must be done before Y can be done). The flow diagram is also known as Flow Chart.

3.9.1

0 Level DFD (Context Level DFD)

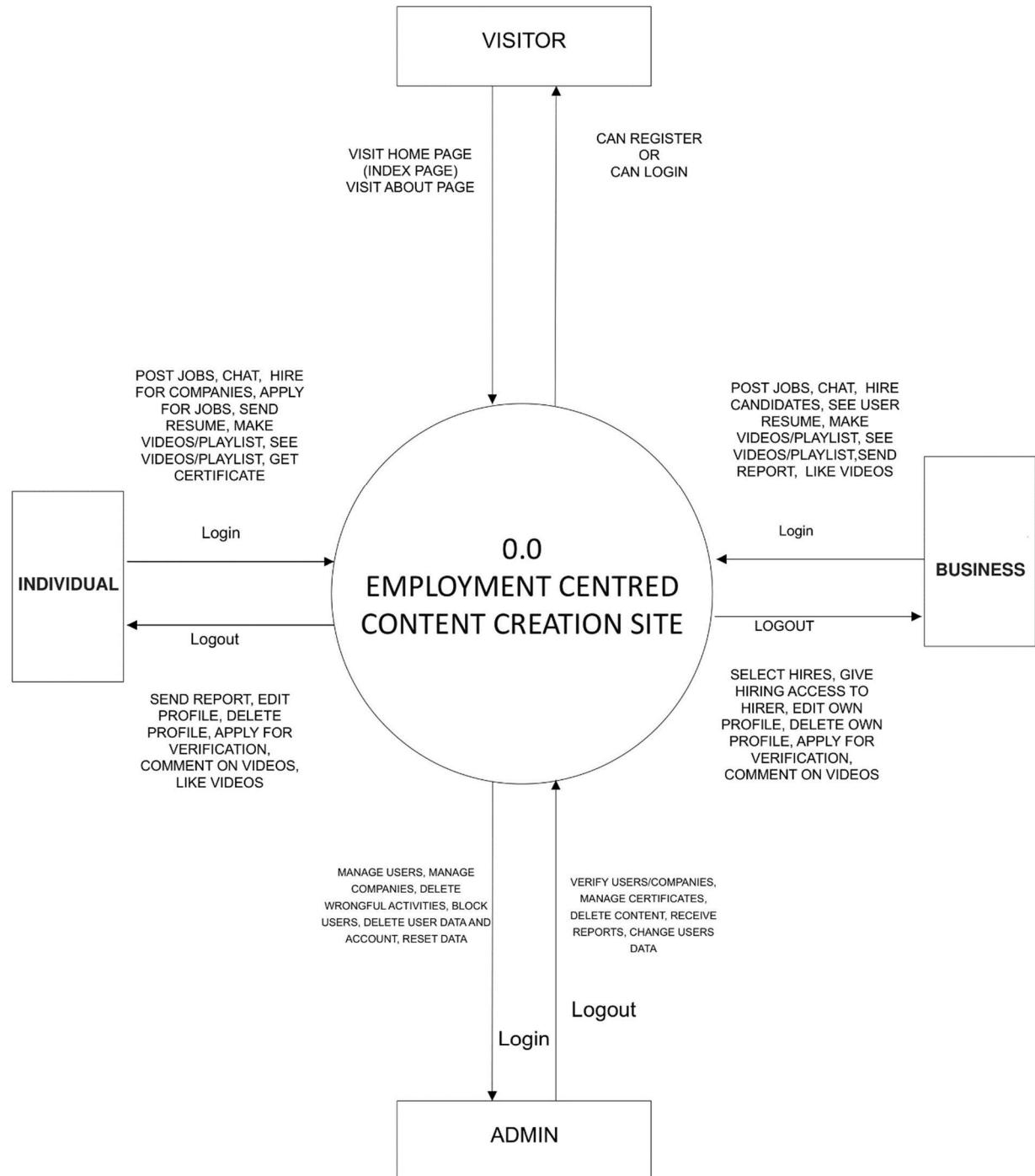


Figure 15 0 Level DFD (Context Level DFD)

EMPLOYMENT CENTERED CONTENT CREATION SITE

Business DFD

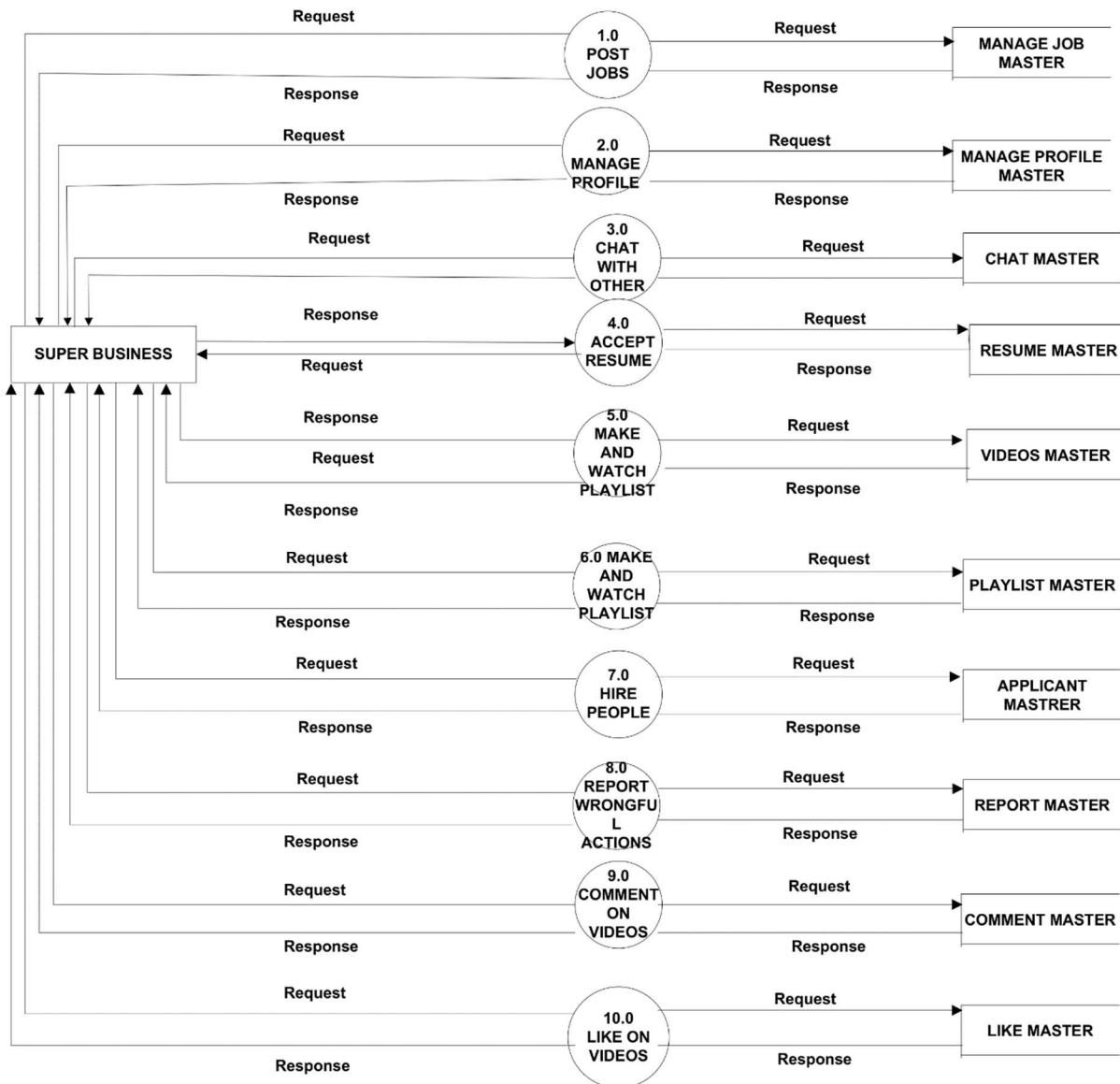


Figure 16 Business DFD

EMPLOYMENT CENTERED CONTENT CREATION SITE

Individual DFD

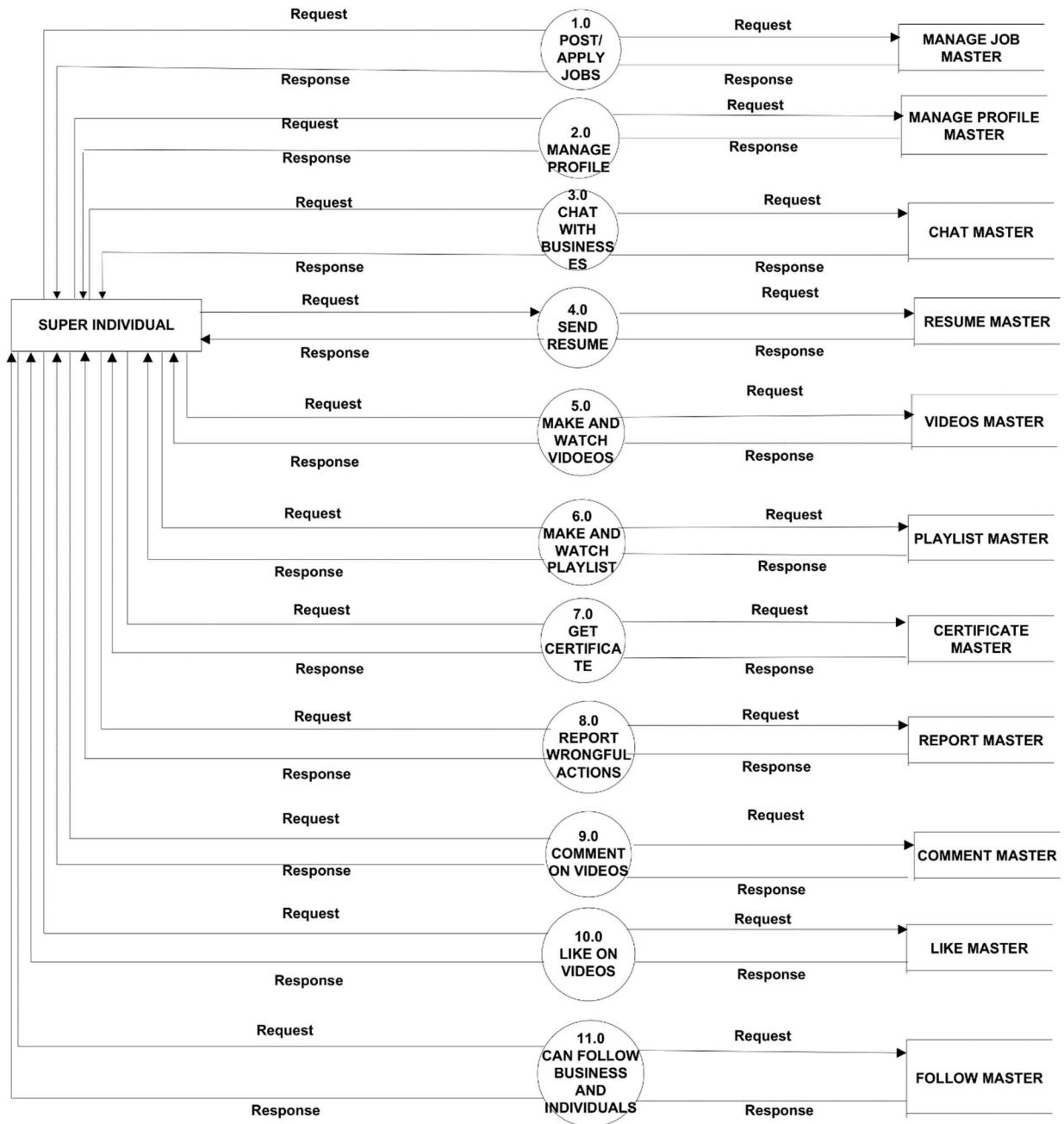


Figure 17 Individual DFD

Admin DFD

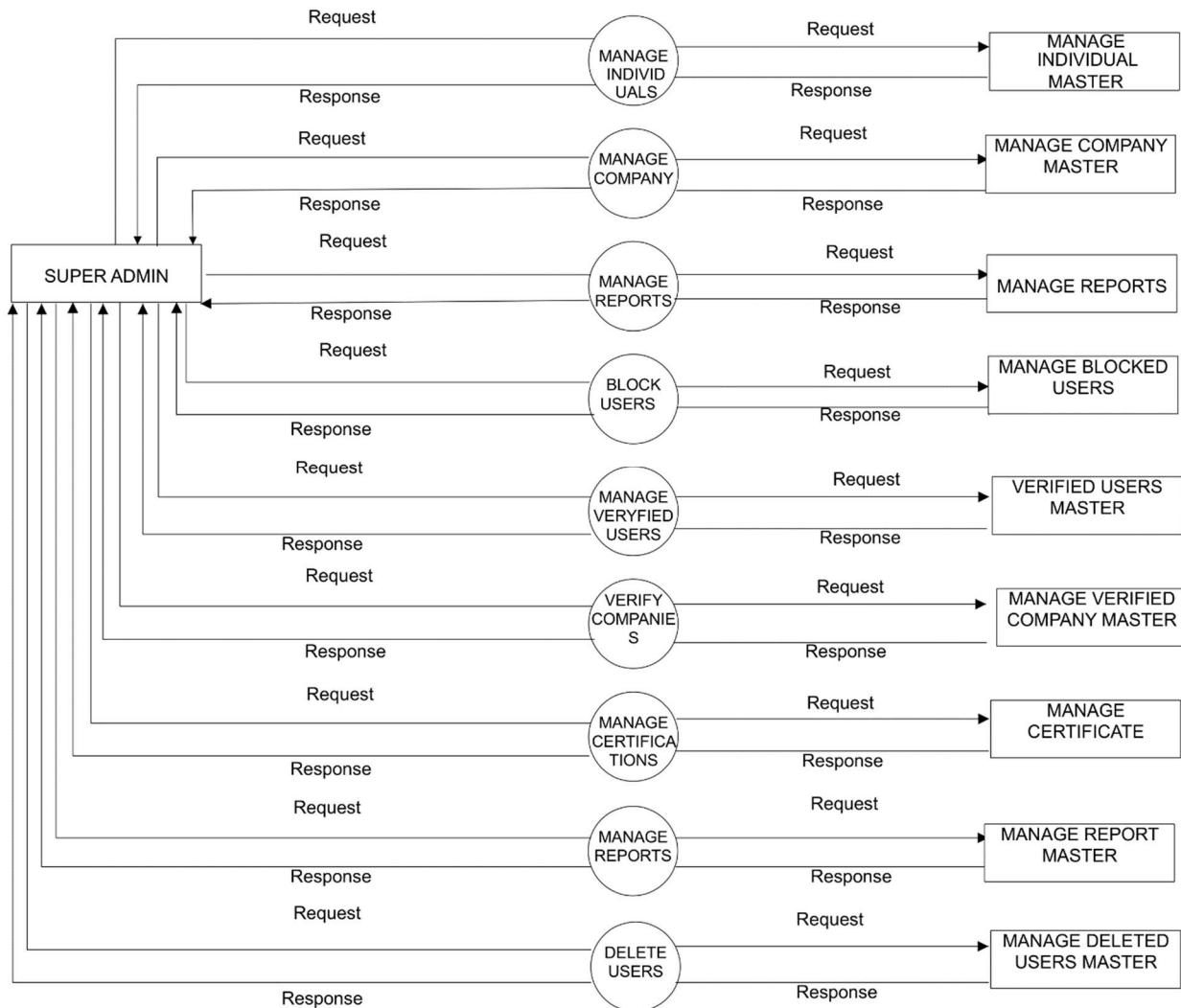


Figure 19 Admin DFD

Visitor DFD

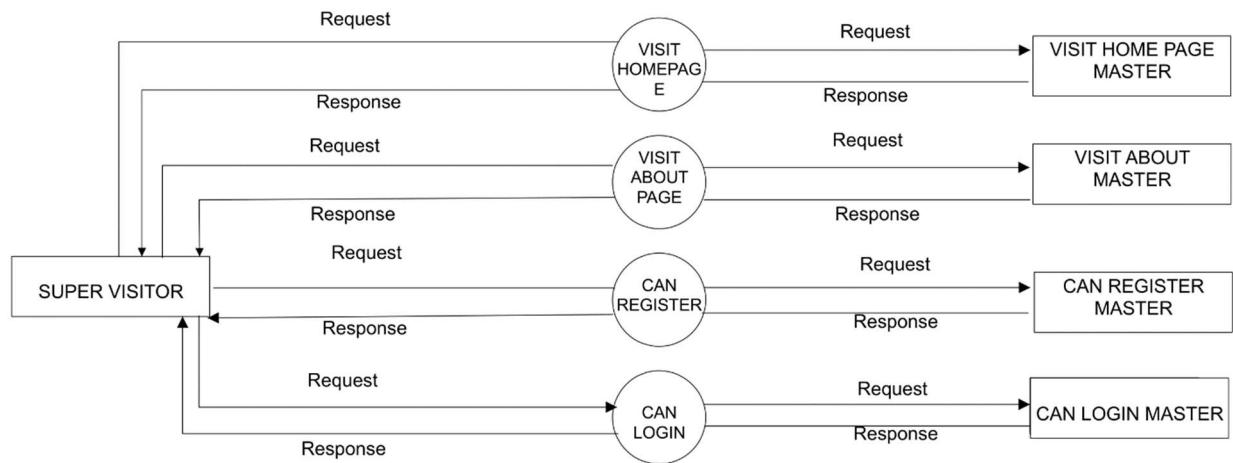


Figure 20 Visitor DFD

3.10 Implementation Environment

The implementation of website is under the environment of Apache Tomcat as Server. The dynamic page will be run on all compatible web browsers.

- Front end HTML, CSS, Javascript, Jquery and Bootstrap
- Programming Language PHP
- Back End My SQL server5.5.8
- For Designing
- For documentation MS Word
- For presentation MS PowerPoint

3.10.1 Security Features

The security of the system is through the Three Levels of Security,,. In this feature the highest security level is of the Administrator, who has all the access rights to see all the details. And also have all the insert, update and delete permissions. The second security level is related to the web application security such as checking of Individual's Id and Password and Individuals are registered or not. The lowest security level is given to the Individual who is using this web application online. Individual can manage his/her profile.

3.10.2 Coding Standards

The coding standard is the well-defined and standard style of coding. With the help of the coding standard any person can go into any code and figure out what's going on and new people can get up to speed quickly. A coding standard sets out standard ways of doing several things such as the way variables are to be named, the code is to be laid out, the comments are to be described, the work of function are to be carried out etc.

Variable Declarations

- We have placed the local variable declarations at the beginning of the script
- Block of declarations has aligned
- For multiple declarations We have used new declaration on the next line

Naming Conventions

- The name of variable that I have used in script represents the content or purpose or role of the variable
- Variables are we with the length of seven to eight characters
- Variable names consist of a data type used in it. If it is a string then the prefix of the variable is _string,, else if integer then _int,,
- Every script should begin with a comment block, which describes the scripts purpose; any arguments used (if applicable), and return values (if applicable), inputs-outputs, and name of script.
- Comments may also be used in the body of the script to explain individual sections or lines of code.
- It is also used to describe variable definition or declaration.
- Each part of the project has a specific comment layout. e.g. Line comments (//...), block comments /*....*/ etc.

Programming Conventions

Some general conventions to be followed in programming:

- **Statements:** Only one statement per line.
- **Spacing:** Space before and after all operators (such as +, *, <, =, etc.) and the assignment symbol (=).
- **Indenting:** Improve the readability of script by using tabs to indent the body of statements.
- Also use a tab to indent statements continued onto a new line.
- Indentation/Tabs/Space Policy: 3, 4, or 8 spaces for each level