

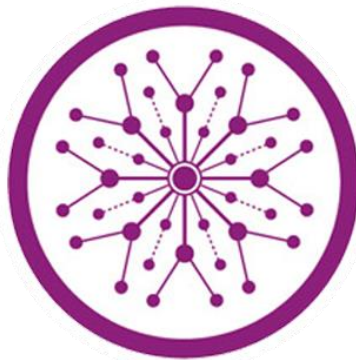
# **Photo clone**

**Final Year Project**

**Session 2018-2022**

A project submitted in partial fulfillment of the degree of

BS in Computer Science



Department of Computer Sciences

Faculty of Computer Science & Information Technology

Superior University, Lahore

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Type (Nature of project)	[ <input checked="" type="checkbox"/> ] Development    [ <input type="checkbox"/> ] Research    [ <input type="checkbox"/> ] R&D			
Area of specialization				
<b>FYP ID</b>	FYP-BCSM-F21-054			
<b>Project Group Members</b>				
Sr.#	Reg. #	Student Name	Email ID	Signature
(i)	BCSM-F18-419	Muhammad Ali Rabbani	Bcsm-f18-419@superior.edu.pk	
(ii)	BCSM-F18-364	Nabeel Ahmed	Bcsm-f18-364@superior.edu.pk	

\*The candidates confirm that the work submitted is their own and appropriate credit has been given where reference has been made to work of others

### Plagiarism Free Certificate

This is to certify that, I Muhammad Ali Rabbani, group leader of FYP under registration no FYP-BCSM-F21-054 at Computer Science Department, The Superior University, Lahore. I declare that my FYP report is checked by my supervisor.

Date: \_\_\_\_\_ Name of Group Leader: Muhammad Ali Rabbani    Signature: \_\_\_\_\_

Name of Supervisor: Sabah Arif

Designation: Lecturer

Signature: \_\_\_\_\_

HOD: Dr. Irfan-ud-din

Signature: \_\_\_\_\_

## Photo Clane Change Record

Author(s)	Version	Date	Notes	Supervisor's Signature
	1.0		<Original Draft>	
			<Changes Based on Feedback from Supervisor>	
			<Changes Based on Feedback From Faculty>	
			<Added Project Plan>	
			<Changes Based on Feedback from Supervisor>	

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## APPROVAL

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### PROJECT SUPERVISOR

Comments: \_\_\_\_\_

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Name: \_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

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### PROJECT MANAGER

Comments: \_\_\_\_\_

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_

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### HEAD OF THE DEPARTMENT

Comments: \_\_\_\_\_

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Date: \_\_\_\_\_ Signature: \_\_\_\_\_

## Dedication

*First of all, we would like to thank, Allah Almighty for giving us opportunity and strength to do our project. We wish to express our deep feelings of gratitude and highest appreciation to our project supervisor Sabah Arif, Department of CS&IT, Superior University, whose brilliant guidance, expert advice and technical support helped us in putting together this project. Lastly, we would like to thank our parents, friends and all those people who have helped us in various ways in making this project.*

## **Acknowledgements**

This project is based on website which help all the photographers, video makers to get work at one place and also make easily access of people who would like too hire them. We express our gratitude to ALLAH almighty for giving us strong will and energy to perform this project.

We want to express with gratitude to our supervisor Sabah Arif for his kind guidance and support in this project. Finally, we would like to thank our parents and companions for helping us achieve this goal.

## Executive Summary

It is very difficult for people to find the best photographer to cover their event because they are already very busy in their event, and also the photographer doesn't have any specific platform for their work from where people can see their work and hire them.

Photo clane is an online platform that is based on online web services like online registration where photographers can register them self and people can hire. In this system, people come and see the best photographer accordingly to their requirements and hire them

Photographers must have a valid Permit and CNIC and their work to show them. There will be a database where there all data will be stored and people can check their work and rating before hiring them.

Moreover, if we talk about the admin side. As the admin can able to control the system, he can change details. Admin side can able to decide the date of the photographer.

Our system will be implemented on a web platform implementing new and popular technologies.

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# Chapter 1

## Introduction

# Chapter 1: Introduction

The reason behind building Photo clan is to give rights to people who have not enough time to visit many studios and waste their time. Photo clan allow people hire their desired person from home.

There are many solutions proposed by many persons for this but they are based on old technologies and they are also time wasting.

## 1.1. Motivations and Challenges

We choose this project to give the rights to people who have not enough time and also for the photographers because they don't have any online platform to show their work.

These peoples are wasting their precious time and money because they don't know the person who is hired but from our platform they can see their previous work and rating which is given by the people based on their work

Now, with our online platform they can chose them from anywhere in the Pakistan! This makes us the life easier for both of them and gives the mental satisfaction.

## 1.2. Goals and Objectives

2. People can higher photographer from anywhere in the Pakistan.
3. Gives the rights to Photographers.
4. They can Register them self from home.
5. Save time and effort of the people.
6. Easy verification method Id card, Passport, living country ID card and other.
7. Easy to use web app with a user-friendly interface.

## 1.4 Literature Review/Existing Solutions

There is no proper solution for online photo clane many companies are working for preparing a solution for this, this is the first ever to go online.

## 1.5 Gap Analysis

According to our research there is not any application or platform like this which can help both user and photographers and also according to over research many people waste there money and time because they hire non professional photographer because they just trust their words so we can show them each and every detail of photographer.

Many people from all around the Pakistan can register them and get a chance to show there skills

## 1.6 Proposed Solution

So we can make online portal where professional photographer, film maker can register them by giving their each and every detail and the need people who need them can hire them by seeing their work and rating it is very easily for both of them and its take very less time

We can also add filter so user can apply filter and find the best person accordingly to their need this is process can save the time of user.

## 1.7 Project Plan

We have a plan to complete this project in 2 semesters i.e FYP1 and FYP2. Which includes requirement analysis, feasibility study, planning, documentation, finalizing, designing, developing and testing. Throughout this whole project our supervisor will be in contact and sharing their valuable input.

### 1.7.1 Work Breakdown Structure

#### 1.Preparation

1.1. Questionnaire.

1.2. Requirement analysis.

1.3. Feasibility study.

## 2.Planning

2.1. Documentation.2.2. Finalizing of deliverables.

2.3. Scheduling of project.

## 3.Design

3.1. Front end design.

3.2. Finalize front end design.

## 4.Development

4.1. Create front end.

4.2. Create database.

4.3. Integration with front end.

## 5.Testing

5.1. Functional Testing.

5.2. Non-Functional Testing.

### 1.7.2 Roles & Responsibility Matrix

WBS#	WBS deliverable	Activity to complete the deliverable	Duration (No. of days)	Responsible Members
1.1	Questionnaire.	Research Tools	5	Ali, Nabeel
1.2	Requirement analysis.	Analyze requirements for the project.	10	Ali, Nabeel
1.3	Feasibility study.	Study requirements for the understanding feasibility of project	1	Ali, Nabeel
2.1	Documentation.	Document all requirements, goals and actions taken to achieve those goals	15	Ali, Nabeel

2.2	Finalizing	Discuss and finalize	5	Ali, Nabeel
2.3	Project Scheduling	Create a schedule to track progress	3	Ali, Nabeel
3.1	Front end design	Decide a user-friendly front end.	2	Ali, Nabeel
3.2	Finalize Front end Design	Discuss the front-end design.	10	Ali, Nabeel
4.1	Create the front end.	Code the front-end	7	Ali, Nabeel
4.2	Create a database.	Code the data base	45	Ali, Nabeel
4.3s	Integration with the front end.	Attach backend with frontend.	20	Ali, Nabeel
5.1	Functional testing	Test the functions	10	Ali, Nabeel
5.2	Non-Functional Testing	Testing performance, security	15	Ali, Nabeel

### 1.7.3 Gantt Chart

1		Round 1				Round 2			
2	Task Name	Sep	Oct	Nov	Dec	Jan	Feb	March	April
3	Planning								
4	Research								
5	Design								
6	Admin Design								
7	User Design								
8	Documentation								
9	Backend Planning								
10	Proper Implementation								
11	Follow Up								
12	Testing								

# Chapter 2

## Software Requirement Specifications

## Chapter 2: Software Requirement Specifications

### 2.6 Introduction

#### 2.6.1 Purpose

The reason behind building Photo clone is to give rights to people who have not enough time to visit many studios and waste their time. Photo clone allow people hire their desired person from home.

There are many solutions proposed by many persons for this but they are based on old technologies and they are also time wasting.

#### 2.6.2 Document Conventions

Conventions	Meanings & Explanation
1. DB	DataBase
2. SRS	Software Requirements Specifications
3. ERD	Entity Relationship Diagram
4. UI	User Interface
5. HI	Hardware Interface
6. SI	Software Interface
7. CI	Communications Interface
8. OS	Operating System

#### 2.6.3 Intended Audience and Reading Suggestions

The Software Requirement Specification (SRS) document is written for general audience. Developers, Marketing Staff all are include in general audience. Audience can easily jump to and section by looking at table of contents. Brief overview of different part of the documents.

### **2.6.3.1 Introduction**

This section offers a summary of the photo clans, including goals and objectives, project scope, general system details, and some major constraints associated with the intended platform.

### **2.6.3.2 Interface**

This section offers an overview of User Interface of the project.

### **2.6.3.3 Features**

This feature offers an overview of the features of the like documents scanning, user book the photographer.

## **2.6.4 Product Scope**

People who are living anywhere in Pakistan are looking to use this and make easy to access photographer and also photographer can register them selfs. It is only possible with the help of photo clane

## **2.6.5 References**

Personals research

## **2.7 Overall Description**

### **2.7.1 Product Perspective**

Photo clane system will be a web-based application in order to provide all the required features mentioned in this document

### **2.7.2 Product Functions**

Photo clane system provides the following functions which are given below:

- User Registration.
- Photographers Login.
- Admin Login.
- Document Identification
- Area Detection
- Budgets
- Packages

- Person Detail
- And more.

### 2.7.3 User Classes and Characteristics

The following user classes that are participate to use this product:

#### **Photographer:**

- Register them self.
- Login.
- Update their details.

#### **Admin:**

- Login
- Keep track on user.
- Add persons or parties.
- Delete persons or parties.
- Update persons.

### 2.7.4 Operating Environment

Photo Clan is a web-based application and it will run on the browser. It can be used on mobile or desktop browser.

### 2.7.5 Design and Implementation Constraints

#### 2.7.5.1 Interface Constraints

Photo Clan is a web-based application it run on every device.

#### 2.7.5.2 Technology Constraints

It will be implemented using HTML, CSS, React, MongoDB.

## 2.8 External Interface Requirements

### 2.8.1 User Interfaces

User Interface must be designed user friendly so a normal person can also use this. We will more focus on its layouts that the application can be easily adjustable on any screen size.

### 2.8.2 Hardware Interfaces

Processor: Any Processor

Ram: 512MB or more

Input: Mouse/ Keyboard

Output: Any Screen which is minimum 144 pixels wide.

### 2.8.3 Software Interfaces

- OS: Windows 7/8/10/11, UNIX, LINUX, Ubuntu and Mac
- Development Tools: HTML, CSS, JS, React.
- DB:

### 2.8.4 Communications Interfaces

When they select any photographers system automatically generate the QR code and send the conformation message to mobile and email.

## 2.9 System Features

The system feature provides the following services:

- I. Easy and fast way to chose photographer.
- II. user can view details of each person which are added by admin.
- III. User can login with the unique id and password into the system.

### 2.9.1 User Function

#### 2.9.1.1 Registration

User can register by uploading our CNIC, Passport and live image which will be capture by his device camera. And other details.

### 2.9.1.2 Description and priority

Talking about description of the registration feature in our system, the registration feature is the most important feature where the all verification of user documents should be done. All the verification of the document.

### 2.9.1.3 Stimulus/Response Sequences

**Stimulus:** User wants to register themselves.

**Response:** System provides the registration form to the user.

**Stimulus:** User request to submit the form with correct input data.

**Response:** System added his data in the database. And gives user confirmation message.

**Stimulus:** User want to register with wrong input or invalid data.

**Response:** System shows him/her a pop-up with wrong input or invalid data.

## 2.10 Other Nonfunctional Requirements

Non-Functional requirements include the online support, security.

### 2.10.1 Performance Requirements

The Website will give correct responsibility. Means its all-component work correctly according to the requirement, efficiency, responsibility, portability and dependability.

### 2.10.2 Safety Requirements

Data and records will be safely stored in the database.

### 2.10.3 Security Requirements

#### 2.10.3.1 Authentication

Only the Authentic person should permission to login into the system who have their id and password.

#### 2.10.3.2 Authorization

The website should provide protection against unauthorized access.

#### 2.10.3.3 Data Protection

The data and record in the database is protected and only can be access by the admin.

#### 2.10.3.4 Nonrepudiation

The system assurance that someone cannot deny the validity of something.

#### **2.10.4 Software Quality Attributes**

No unauthorized person can't register themselves in the system.

#### **2.10.5 Business Rules**

As you know our system is totally a web-based application so here is admin who is responsible to keep track on all over the system. The admin can add, delete or update the user and more.

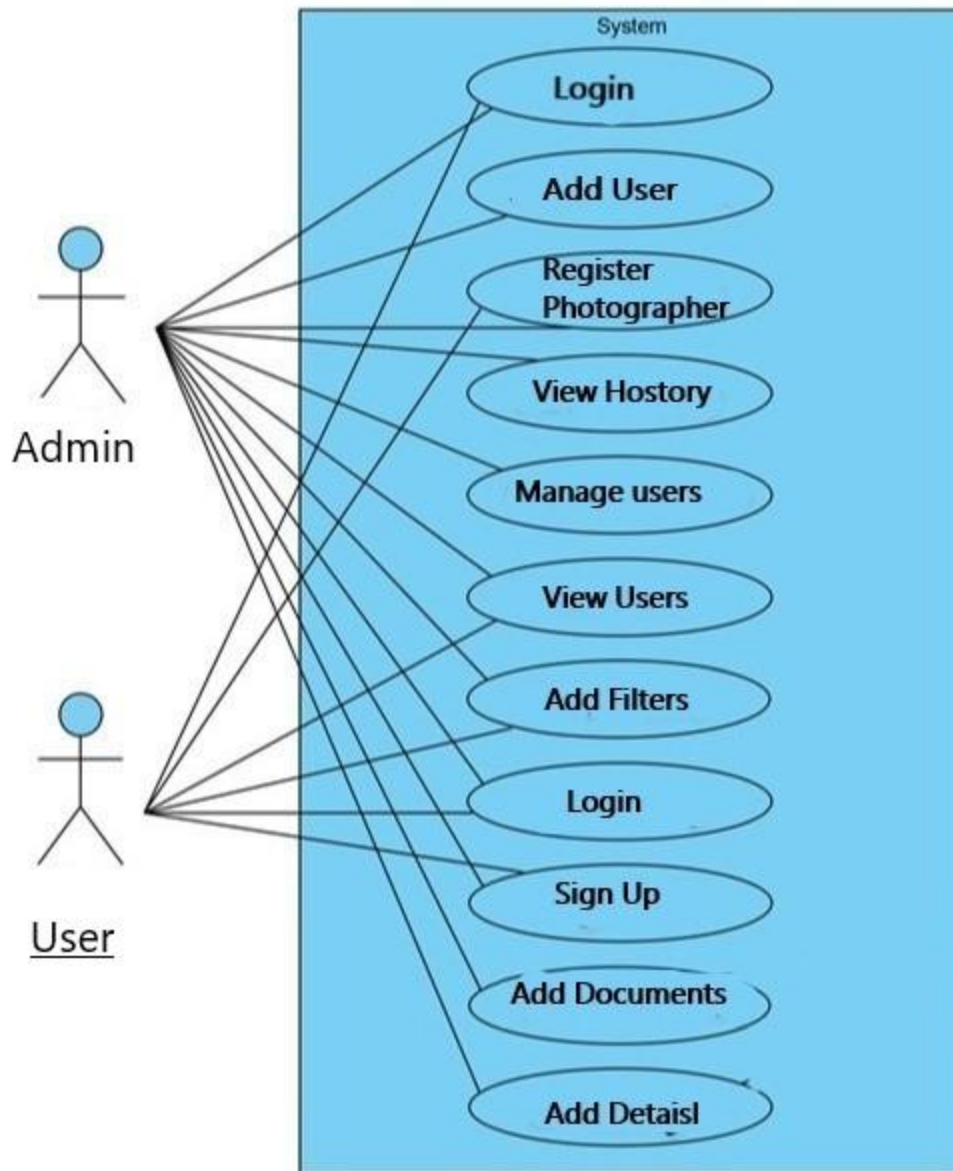
# Chapter 3

## Use Case Analysis

## Chapter 3: System Analysis

- This chapter is about how user interact with the system to solve a problem.
- We gather the requirements of our system including internal and external influences.
- A graphic depiction of the interactions among the elements of a system.
- Also identify, clarify and organize system requirements.

### 3.1. Use Case Model



### 3.2. Use Case Descriptions Use case1

<b>Number</b>	1	
<b>Name</b>	Photo clan System Use case Model	
<b>Summary</b>	Admin can manage users	
<b>Pre-condition</b>	Users has to log in	
<b>Post-condition</b>	Users can login, view data, Add Details, view their history	
<b>Primary Actor</b>	Admin/user	
<b>Secondary Actor</b>	User	
<b>Trigger</b>	Manage all things at one place	
<b>Main Scenario</b>	Step	
	1	User has to login/Create New Account
		User has to view details
		User has to Confirm task
		User has to write his Information
		Admin has to Confirm details
		Details will be updated
		user takes receipt of his history
		user can logout
<b>Extensions</b>	Step	Wrong Attempts
	5(a)	Wrong Date
	6(a)	if age is less 18
<b>Open Issues</b>	System should ask for other information	

## Use Case 2.

<b>Number</b>	2	
<b>Name</b>	Login	
<b>Summary</b>	In this case user first register its self into the system. In the registration form, User should give their data to register. After registration user will be able to register.	
<b>Priority</b>	Must have	
<b>Pre conditions</b>	User has to first register its self for login into the system.	
<b>Post conditions</b>	Receive Confirmation Login Successfully	
<b>Primary Actor(s)</b>	User	
<b>Secondary Actor(s)</b>	Admin	
<b>Triggers</b>	User choose registration option.	
<b>Main Scenario</b>	<b>Step</b>	<b>Action</b>
	1.	System displays a register form.
	2.	User should enter the given data into the form.
	3.	User receive the registration confirmation message.
	4.	Now user Login into the system with their voter id and password.
<b>Extensions</b>	<b>Step</b>	Branching Action
	4a	The account does not exist.
<b>Open Issues</b>	1	Should the system ask if the user wants to change password

### Use Case 3.

Number	5
Use Case Name	<b>Forgot Password</b>
Primary Actor	Customer
Scope	All the user will be able to reset their password.
Level	user will be redirected to the reset password screen.
Stakeholders	All of the primary user mentioned are stakeholders.
Preconditions	User must have an account already to reset the password.
Minimal guarantees.	Email/Phone verification is sent to the user for password reset.
Post-Condition	Once the verification code is verified by the user, the user can reset his/her password.
Main success scenario	<ol style="list-style-type: none"> <li>1: User provides an email address or phone number on the system.</li> <li>2: User enters verification code on the system</li> <li>3: Correct code will take the user to the password reset screen.</li> <li>4: User enters a new password and confirms.</li> </ol>
Alternative Flow	<p>User enters the wrong Email or Phone number.</p> <ul style="list-style-type: none"> <li>- System reports of email/phone number being entered wrong and suggested option to enter correct info - User enters wrong verification code.</li> <li>- System suggests an option to send verification code again.</li> </ul>

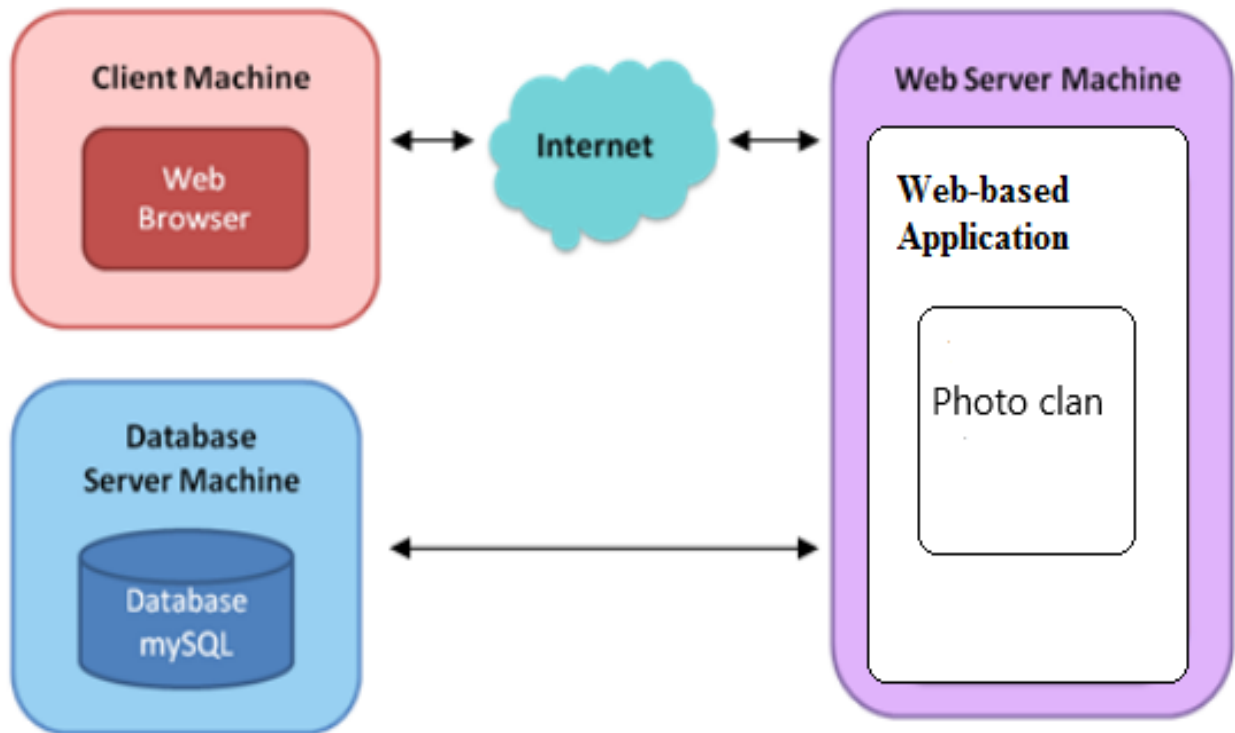
# Chapter 4

## **System Design**

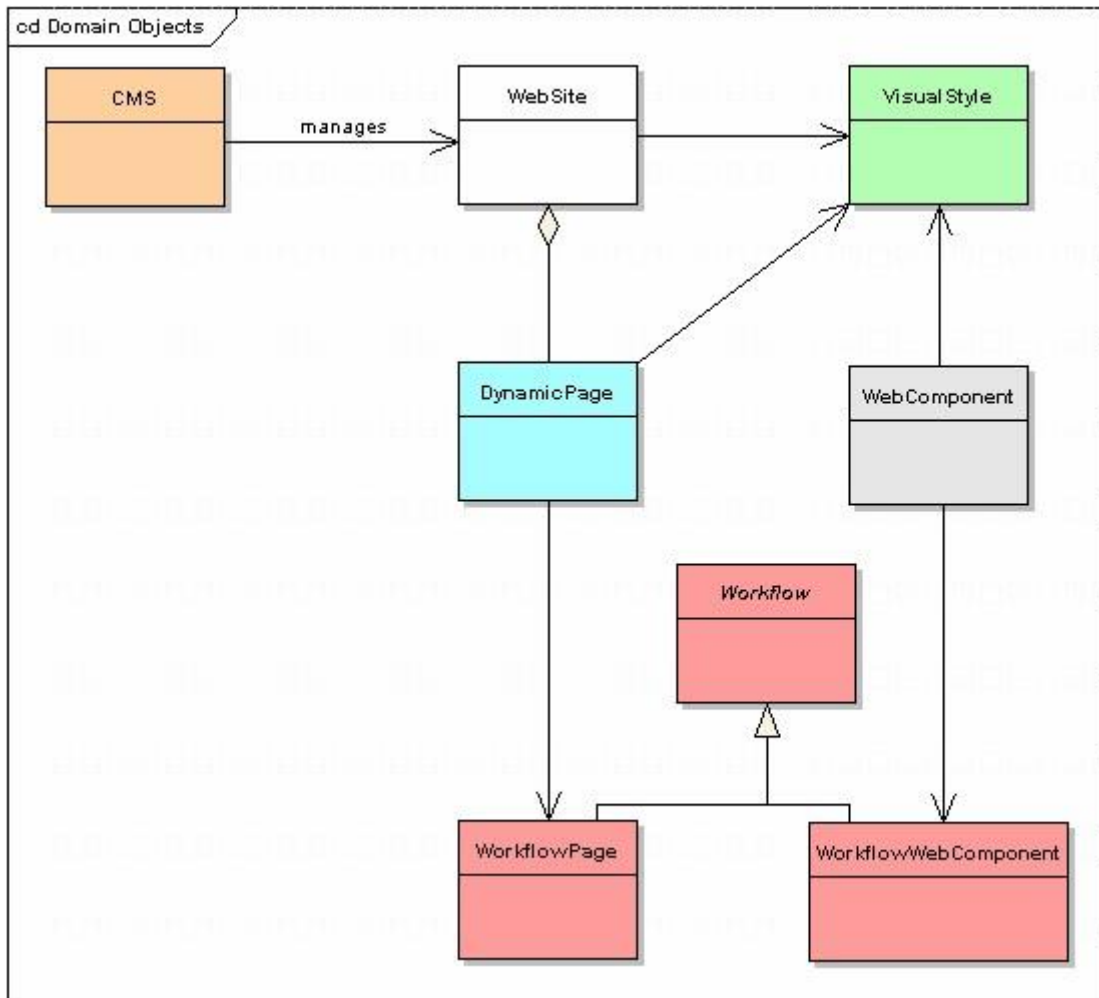
## Chapter 4: System Design

This chapter is about how we will design and implement the application. We will briefly discuss the architecture, Diagrams, ERD and Sequence Diagrams how these things will be implemented in the system.

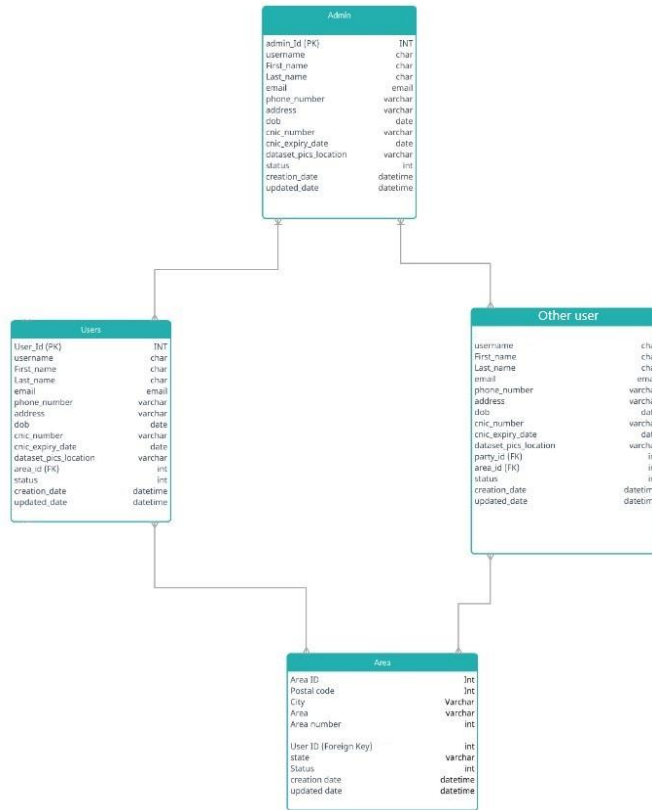
### 4.1. Architecture Diagram



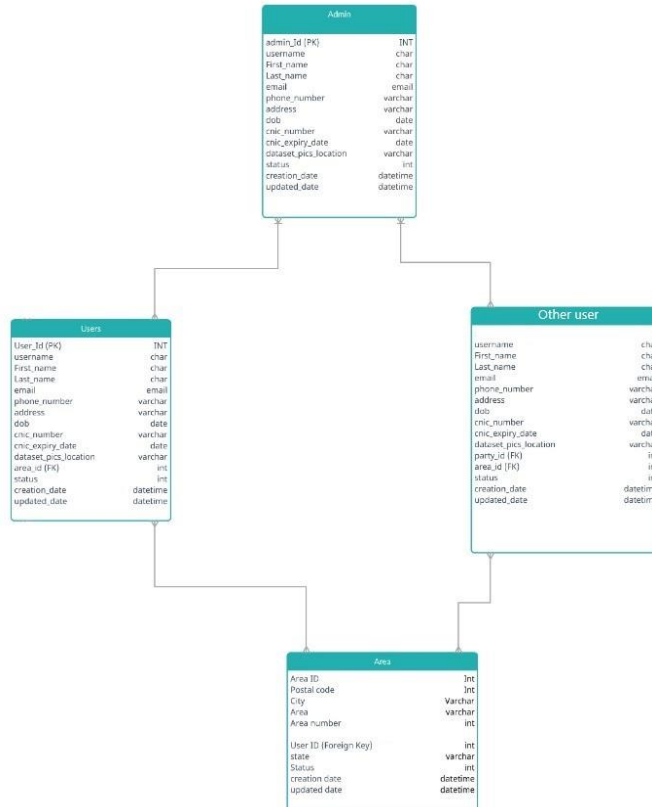
## 4.2. Domain Model



### 4.3. Entity Relationship Diagram with data dictionary

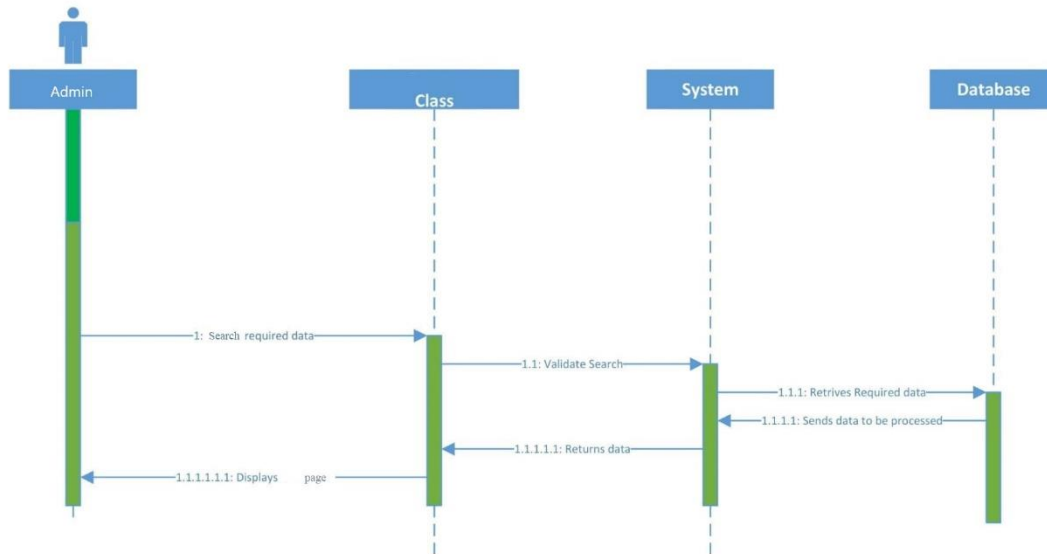


## 4.4. Class Diagram

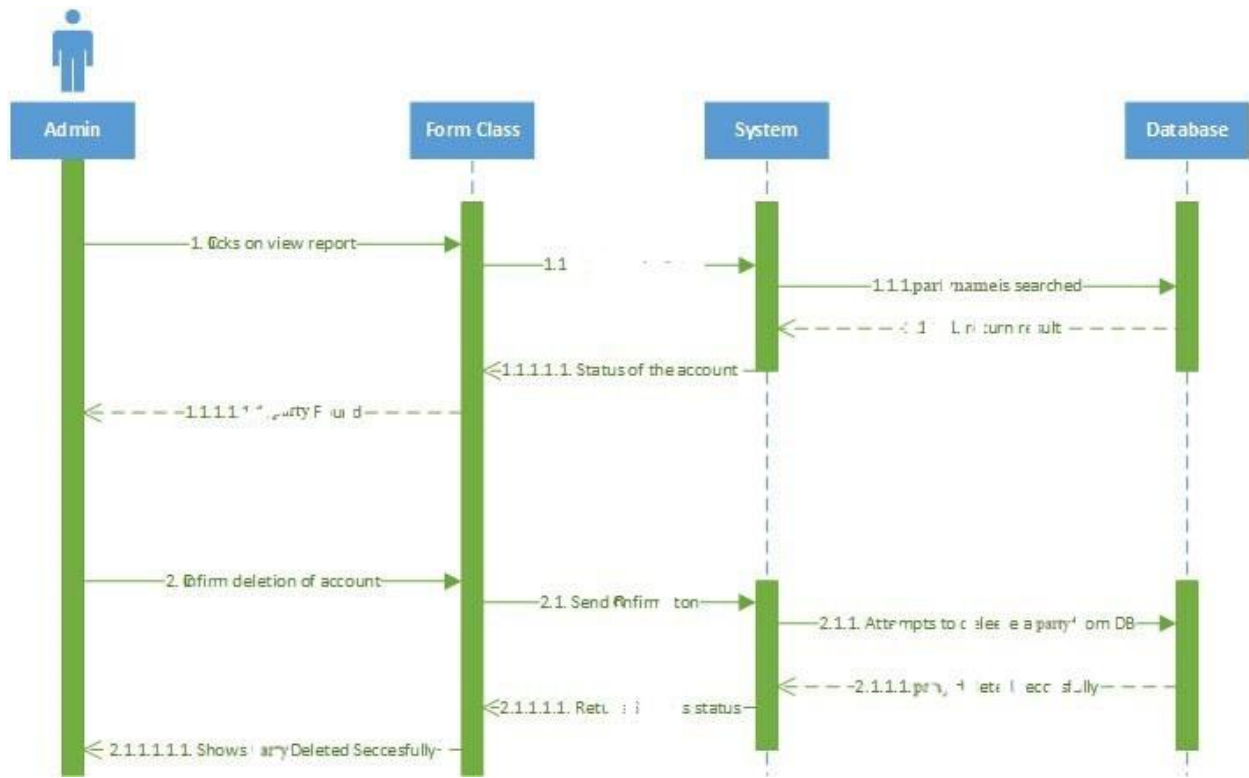


## 4.5. Sequence / Collaboration Diagram

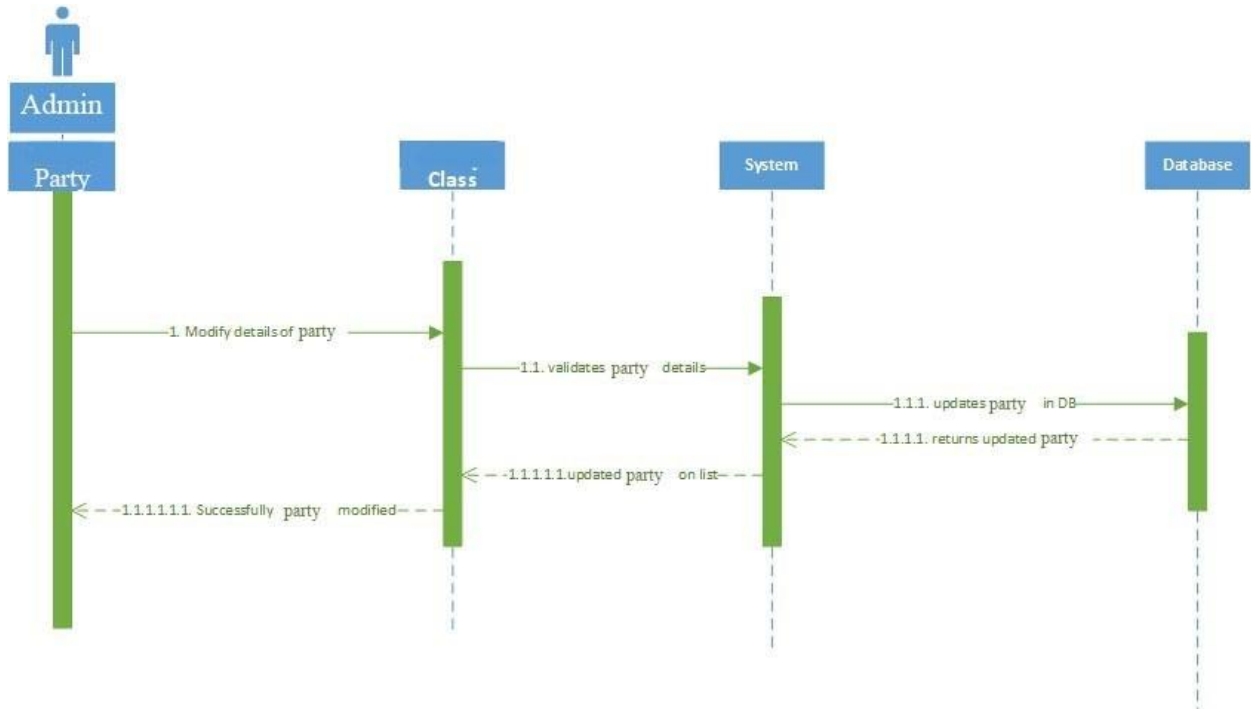
### Login

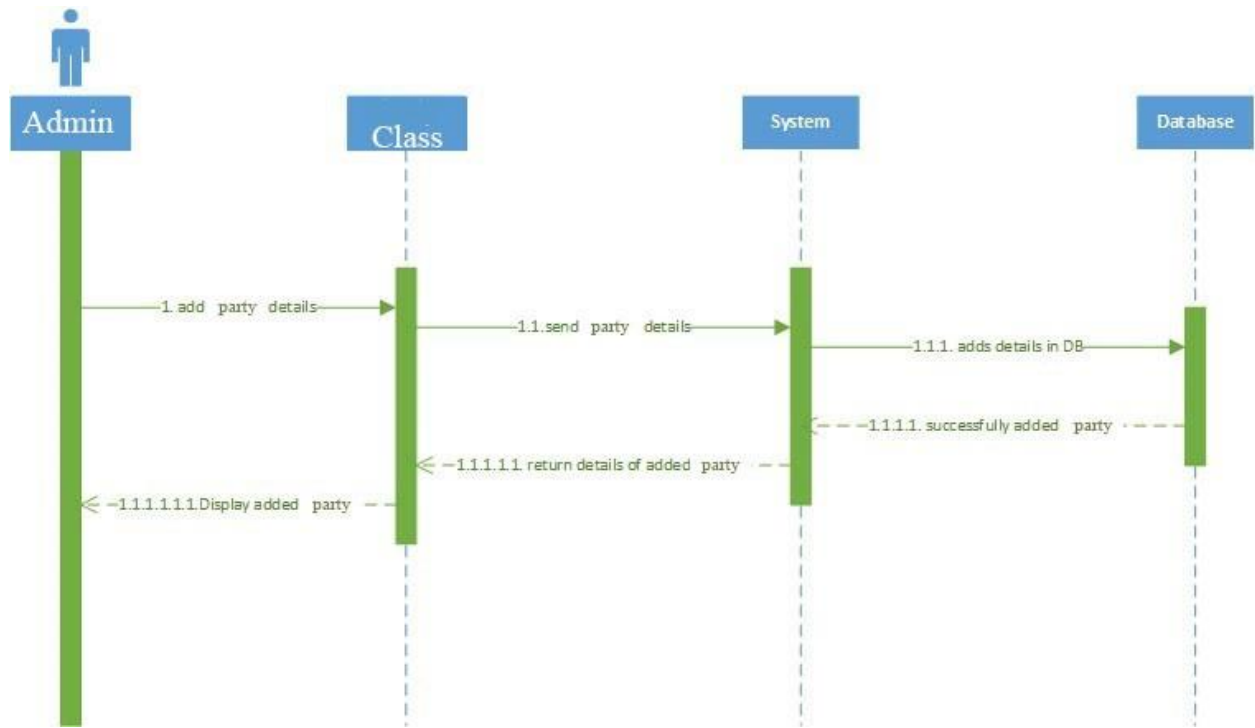


### Delete

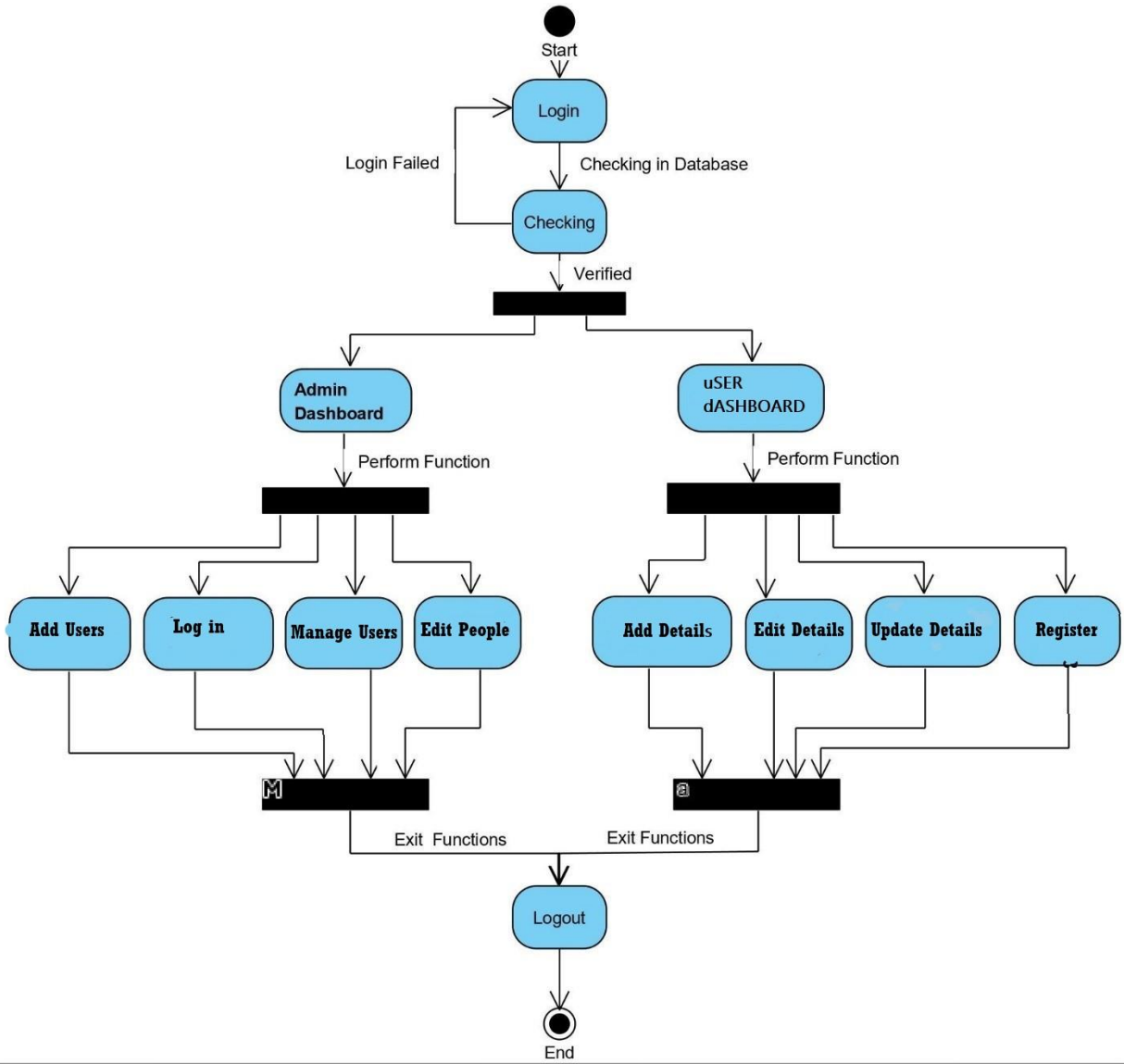


### Update

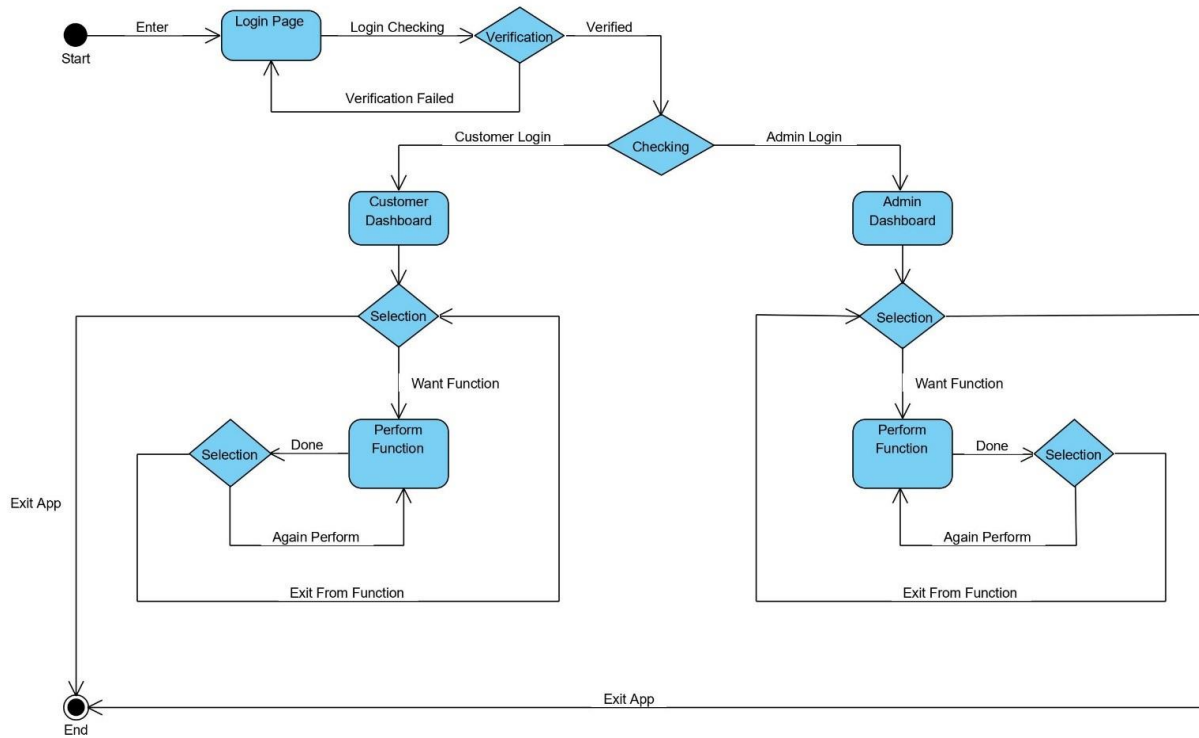


Add

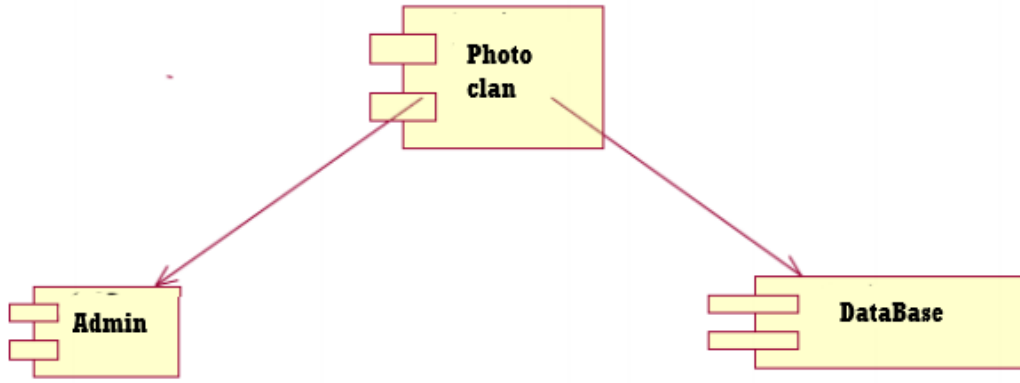
### 4.6. Activity Diagram



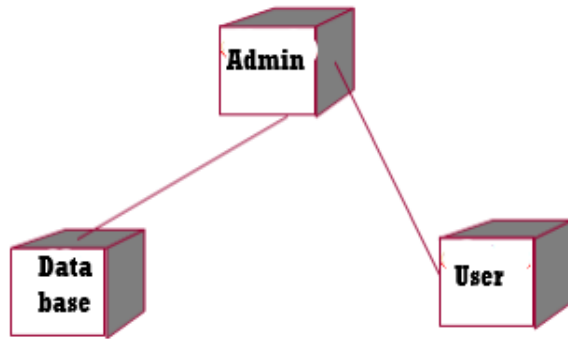
## 4.7. State Transition Diagram



## 4.8. Component Diagram



## 4.9. Deployment Diagram

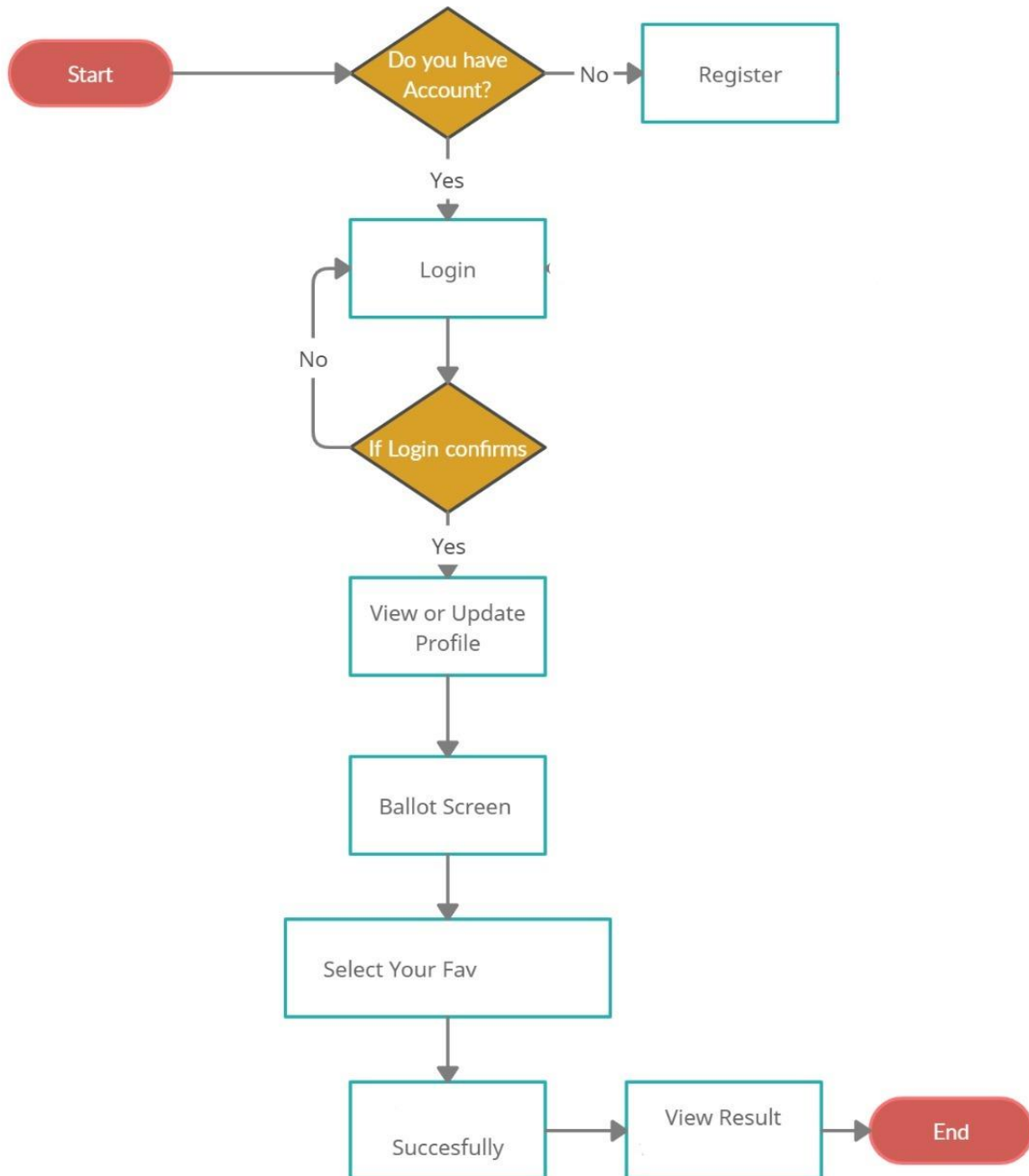


# Chapter 5

## Implementation

## Chapter 5: Implementation

### 5.1. Important Flow Control/Pseudo codes



### **Pseudo Code:**

- First to all if user already have the account then it login through the system.
- If not have a account then go to registration and register then with their proper information.
- If information match to the database.
- After successfully login into the system voter able to view their profile.
- Now the ballot screen appears on the page.
- User select their favorite candidate.

## **5.2. Components, Libraries, Web Services and stubs**

### **Libraries:**

- React.JS
- Node.JS

### **Components:**

- User
- User Permission
- Admin
- Permission
- Persons

### **Web Services:**

The web Services are as follows:

- Mongoose
- AWS
- GitHub

### 5.3. Deployment Environment

4. We will use localhost for development purposes and testing. We will use AWS services for deployment and production.

### 5.1. Tools and Techniques

- VS Code
- Node JS
- Bootstrap
- React JS
- MongoDB
- Java Script
- HTML
- CSSs
- Rest API
- Postman

### 5.2. Best Practices / Coding Standards

- Our code is properly commented and intended
- We are using an architectural pattern such as MVC
- Use of proper casing standards such as Camel case etc.
- Reusability in code

# Chapter 6

## Testing and Evaluation

## Chapter 6: Testing and Evaluation

Testing and evaluation phase of our desktop application. We check the application workflow, find errors and bugs if any, and remove them. Test the application by giving different scenarios and reviewing how the application responds. We got few bugs in the start after constantly testing we removed the bugs. Check the application through different testing phases like integration that the user interface and database connect properly. Check all the possible scenarios for the application so that no error occurred. Evaluate the application that Application works properly in every situation.

### 6.1. Use Case Testing

In use case testing, the admin have done the following tasks like :

- Add user.
- Delete user.
- Update user.
- Etc.....

### 6.2. Equivalence partitioning

In Equivalence testing the Login feature test whether the login matches to the details in database or not. If the details are not matching to the system it gives us the error.

### 6.3. Boundary value analysis

In boundary value analysis the user can't register itself again even if he has a different image of it. One person can register itself only one time

## **6.4. Unit testing**

In unit testing, if we talk about the user side the user first register themselves to the system and then need to login with valid credentials and if the credentials invalid they don't login into the system.. The admin can only be login into their dashboard through their valid credentials created by the system. The admin can edit, update and delete the user.

## **6.5. Integration testing**

Check the integration of the application that the frontend and backend connect perfectly, and user details match with database to check whether the user is valid or not. The database and frontend of the application work perfectly.

## **6.6. Performance testing**

Maximum response time: less than 8 sec.

Average response time: less than 5 sec.

# Chapter 7

## Summary, Conclusion and Future Enhancements

## Chapter 7: Summary, Conclusion & Future Enhancements

### 7.1. Project Summary

It is very difficult for people to find the best photographer to cover their event because they are already very busy in their event, and also the photographer doesn't have any specific platform for their work from where people can see their work and hire them.

Photo clane is an online platform that is based on online web services like online registration where photographers can register them self and people can hire. In this system, people come and see the best photographer accordingly to their requirements and hire them

### 7.2. Achievements and Improvements

Testing and evaluation phase of our desktop application. We check the application workflow, find errors and bugs if any, and remove them. Test the application by giving different scenarios and reviewing how the application responds. We got few bugs in the start after constantly testing we removed the bugs. Check the application through different testing phases like integration that the user interface and database connect properly. Check all the possible scenarios for the application so that no error occurred. Evaluate the application that Application works properly in every situation.

### 7.3. Critical Review

We have revived the application from different aspects and from all of the end's application is working fine.

### 7.4. Lessons Learnt

This project makes us learn many new things that how we can manage things and which things should not be compromised when we build a project. How to tackle different problems finds bugs and errors make it according to the user and check all the possibilities which a human being can do to this application. We have learned the complexity of a system with respect to new trends in the market we have used the latest technologies

## **7.5. Future Enhancements/Recommendations**

In the future, we implement more features in this application like map integration so that the user can easily find the required person. We have a plan to create its app in the future.

# Reference and Bibliography

## Reference and Bibliography

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