



**SHRI SHAMBHUBHAI V. PATEL COLLEGE OF  
COMPUTER SCIENCE & BUSINESS  
MANAGEMENT**

Affiliated To  
**VEER NARMAD SOUTH GUJARAT UNIVERSITY,  
SURAT**

A PROJECT REPORT  
ON  
**BLOG MANAGEMNET SYSTEM**

AS A PARTIAL REQUIREMENT FOR THE DEGREE  
OF  
BACHELOR OF COMPUTER APPLICATION  
(B.C.A)

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**Date : 23/04/2022**

# Shri Shambhubhai V. Patel College of Computer Science & Business Management

Near I.C.Gandhi School, Sumul Dairy Road, Surat. (Gujarat) India.

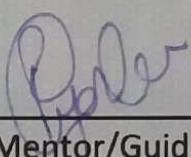


## CERTIFICATE

This is to certify that the project entitled Blog Management System  
has been carried out by Mr./Ms. Dhemani Rohan J.

\_\_\_\_\_ of Bachelor of Computer Application, Semester VI  
Exam No. 2019021284

towards fulfillment of the course, for the Academic Year 2021-22.

  
\_\_\_\_\_  
Mentor/Guide

Date:



  
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I/C. Principal  
Date:

### PROJECT OF B.C.A.

Academic Year: 2021 - 22

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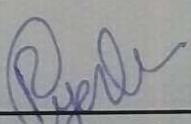
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Exam No. 20190212 66

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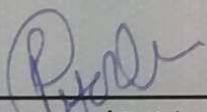


## CERTIFICATE

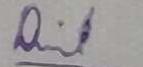
This is to certify that the project entitled Blog Management System  
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                                 of Bachelor of Computer Application, Semester VI  
Exam No. 2019021238

towards fulfillment of the course, for the Academic Year 2021-22.

  
Mentor/Guide  
Date:



  
I/C. Principal  
Date:

### PROJECT OF B.C.A.

Academic Year:

Approved by:

Examiners



## ACKNOWLEDGEMENT

- Our self Chodvadiya Neel, Balar Axit and Dhanani Rohan. Have opportunity to express our knowledge. we would like to express our gratitude to all those who gave us the possibility to complete our project.
- Success is such a comprehensive project can't achieve single-handed. It is team effort that sails the ship to the coast. so we would like to express our sincere thanks to all the dignitaries who were involve in making this project the great joy and turning it our into successful piece of work.
- **Prof. Riddhi Joshi** – our professor and project co-ordinates has been very prudent to us threw out the collage studies. They are the person who has giving this direction to our work and the shape to our imagination. we express our regard to them from the core of our heart. we also like to thanks our all the professor who are always ready to give best guide. they are the person who give solution whenever needed.
- We would also like to acknowledge all the friends and colleagues, team member for the help and encouragement by them for time to time. The constant support and encouragement of my friend is deeply appreciates. The project indeed gave challenging and exhilarating experience in designing and developing the required system.

From,

Dhanani Rohan J,  
Balar Axit M,  
Chodvadiya Neel S.

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## 1. Introduction

- ✓ Project Description
- ✓ Project Profile



## Project Description

- A blog is a frequently updated online personal journal or diary. It is a place to express yourself to the world. A place to share your thoughts and your passions. Really, it's anything you want it to be. For our purposes we'll say that a blog is your own website that you are going to update on an ongoing basis.
- Blog is a short form for the word we blog and the two words are used interchangeably. Blogs range from the personal to the political, and can focus on one narrow subject or a whole range of subjects.
- It can also play an important role in student's life. It can help in the promotion of critical and analytical thinking, increased access and exposure to quality content and a combination of solitary and social interactions with peers.
- Currently students in schools or colleges are unable to express their ideas, their talent or anything that can be expressed for some benefits for everyone.
- The reason is, schools or colleges don't have any proper medium to accomplish it. But proposed online blogging system can help in accomplishing these things and even much more. We will cover the objectives of this online blogging system in next section.
- Internet has become reality and usage of internet has become very much popular and there is tremendous increase of internet in all over the world for educational purpose. The Online Blogging System is easy to use, full-featured and much more.

## ❖ Features :-

- Online Blogging System is a perfect platform for students, teachers, institutional, administrative purposes.
- Before take any type of service, User have to login first.
- Home page display all categories of Blog and The Online Blogging System will allow the users to publish the writings, images if he/she should have credentials to login.
- After the user insert the blog, the blog goes to the admin and the admin check and verify the blog and then the blog is displayed to the rest of the users.
- User and admin can change their password.
- Admin can manage all type operation of system. Admin has every permission.

### **1. User Panel Features : -**

- ❖ User Registration.
- ❖ User Login / Logout.
- ❖ User Change Password.
- ❖ User Profile Update.
- ❖ User Insert Blog.
- ❖ User Update Blog.
- ❖ User Delete Blog.
- ❖ User Like Blog.
- ❖ User Add Comment.
- ❖ User Search Blog.
- ❖ User Add Feedback.

## 2. Admin Panel Features : -

- ❖ Admin Login.
- ❖ Admin Logout.
- ❖ Admin Profile Update.
- ❖ Admin Change Password.
- ❖ Admin Insert Blog.
- ❖ Admin Verified User Blog.
- ❖ Admin Unverified User Blog.
- ❖ Admin Send Email To User.
- ❖ Admin Add Comment.
- ❖ Admin Delete Comment.
- ❖ Admin View Top 10 User.
- ❖ Admin Edit User's Blog.
- ❖ Admin Delete Blog.
- ❖ Admin Insert User In Some Cases.

## 3. Blog Panel Features: -

- ❖ Insert Blog.
- ❖ View Blog.
- ❖ View Blog Categories wise.
- ❖ Update Blog.
- ❖ Delete Blog.
- ❖ Like Blog.
- ❖ Comment Blog.
- ❖ Search Blog.

 **Project Profile :-**

Field	Details
<b>Project Name:</b>	IBlogger
<b>Technology:</b>	Node.js, React.js, Express.js, MongoDB, Html, Css, Bootstrap, Javascript.
<b>Front End:</b>	React.js
<b>Back End:</b>	Node.js / Express.js
<b>Browser:</b>	All browsers are supported.
<b>Internal Guide:</b>	Prof. Riddhi Joshi
<b>Platform:</b>	Node.js -16.14.0, React.js - 17.0.2
<b>Tool Used For:-</b>	Visual Studio Code, MongoDB Compass, Postman.
<b>Submitted To:</b>	Shree Shambhubhai V Patel College Of Computer Science & Business Management
<b>Developed By:</b>	Chodvadiya Neel S. Balar Axit M. Dhanani Rohan J.

## 2. Environment Description

- ✓ Hardware and Software Requirements
- ✓ Technologies Used

## Hardware And Software Requirement :

The efficient hardware and software configuration require running the system is as suggest below. The configuration suggested is for better performance. Same functionality or higher configuration will always better.

### Client Side :

- Internet enabled device with web-browser.

### Server side :

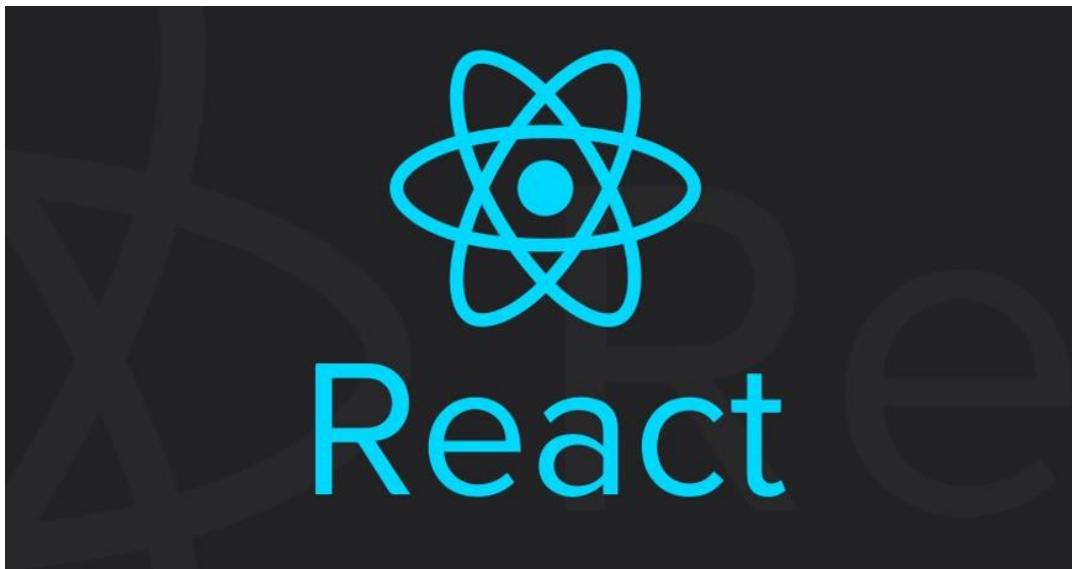
- Node.js - 14.16.1
- MongoDB Database

### Development Side :

- **Processor :** Intel core i5 11<sup>th</sup> generation
- **O.S :** Windows 10
- **Memory :** 8.00 GB
- **Hard disk :** 1TB
- **Web Browser :** Google Chrome (Recommended)

## Technologies Used :

### ➤ Overview of React.js :-



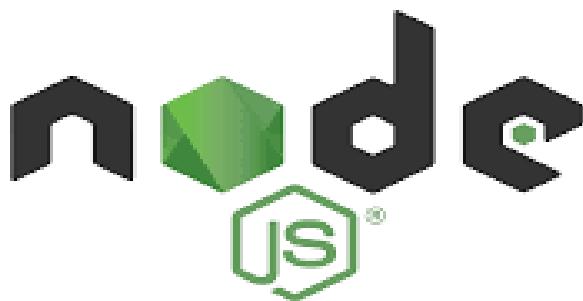
- React is a JavaScript library for building user interfaces.
- React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that change over time.
- React abstracts away the DOM from you, offering a simpler programming model and better performance.
- React can also render on the server using Node, and it can power native apps using React Native.
- React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

### React Advantages :-

- React Uses virtual DOM which is a JavaScript object. This will improve apps performance, since JavaScript virtual DOM is faster than the regular DOM.
- React Can be used on client and server side as well as with other frameworks.

- React Component and data patterns improve readability, which helps to maintain larger apps.

## ➤ Overview of Node.js :-



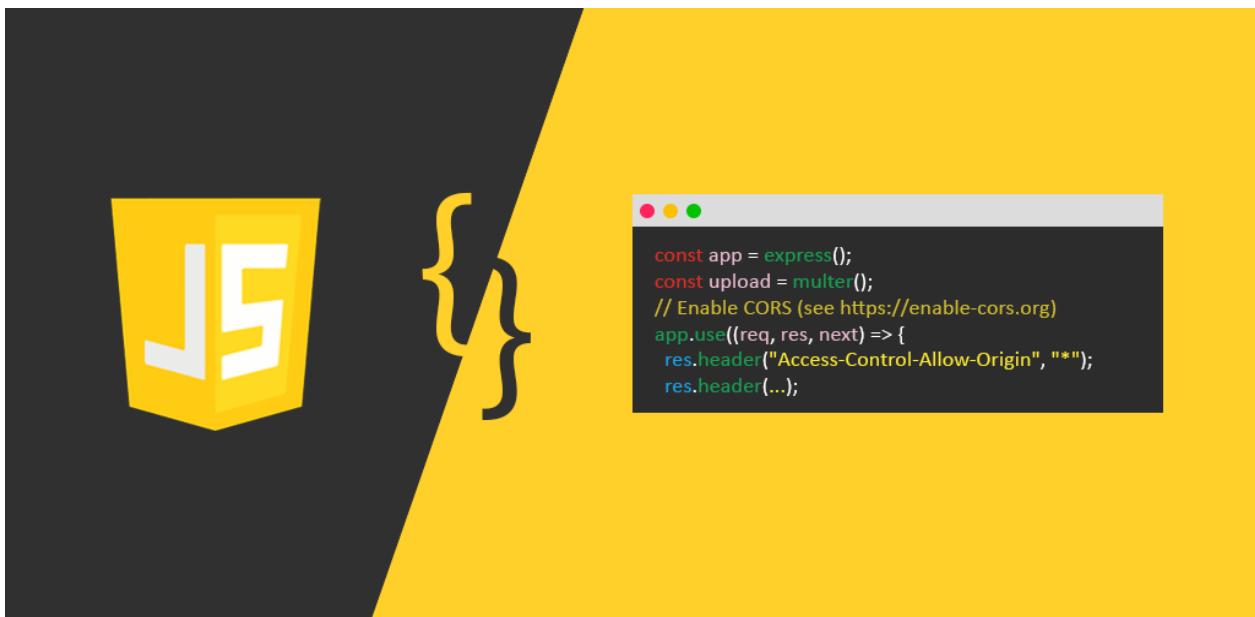
- Node.js is a server-side platform built on Google Chrome's JavaScript Engine (V8 Engine).
- Node.js is an open source, cross-platform runtime environment for developing server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on OS X, Microsoft Windows, and Linux.
- Following are some of the important features that make Node.js the first choice of software architects.
- **Asynchronous and Event Driven :**

All APIs of Node.js libraries are asynchronous, that is, non-blocking. It essentially means a Node.js based server never waits for an API to return data. The server moves to the next API after calling it and a notification mechanism of Events of Node.js helps the server to get a response from the previous API call.

- **Very Fast :**

Being built on Google Chrome's V8 JavaScript Engine, Node.js library is very fast in code execution.

## ➤ Overview of JAVASCRIPT :-



- Java script is a programming language that can be included on web pages to make them more interactive. You can Use it to check or modify the Content of forms, change images. Open new widows and write dynamic page content.
- This allows you make parts of your web pages appear or disappear or move around on the page.
- JavaScript is a client side, interpreted, object oriented, high level scripting language, while Java is a client side, compiled, object oriented high level language.
- **JavaScript Features :-**
  - JavaScript is more flexible language.
  - JavaScript make possible all type of validation and security.
  - JavaScript has set of function.

## ➤ Overview of CSS :-



- CSS is the language we use to style an HTML document. CSS describes how HTML elements should be displayed. This tutorial will teach you CSS from basic to advanced.
- **Benefits of CSS :-**
  - Greater typography and page layout controls
    - With style sheets, you can specify traditional typography features that you could never do with HTML alone (even with its presentational extensions).
  - Less Work
    - Not only can you format all similar elements in a document with a single style rule, external style sheets make it possible to edit the appearance of an entire site at once with a single style sheet edit.
  - Potentially smaller documents
    - Redundant font tags and nested tables make for bloated documents. Stripping Presentational HTML out of the document saves on file size.

## ➤ Overview of HTML :-



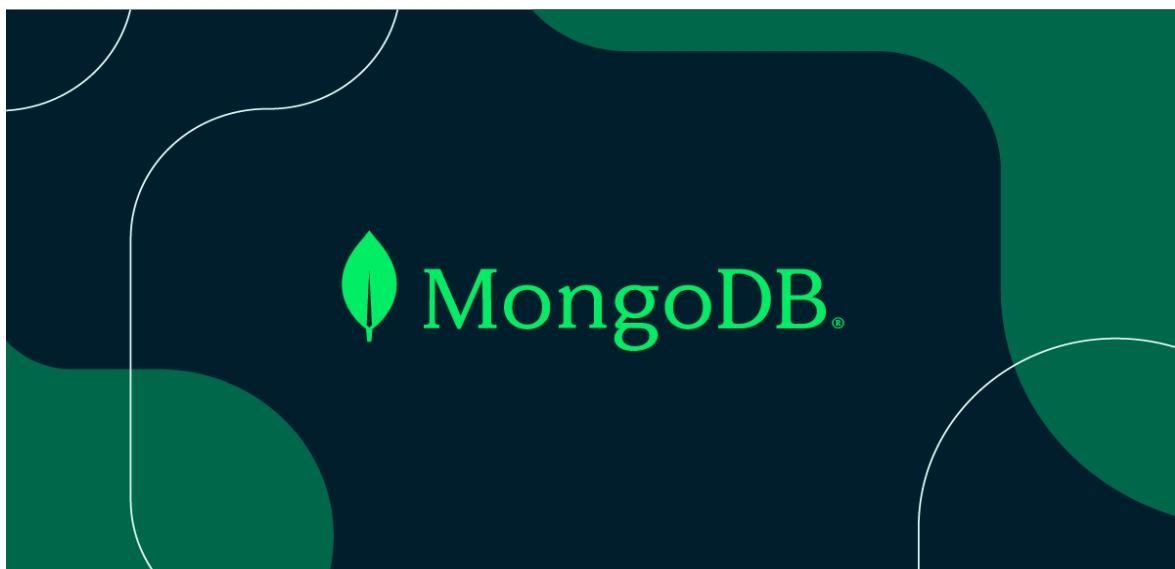
- Hyper Text Markup Language (HTML) is the set of markup symbols or codes inserted into a file intended for display on the Internet. The markup tells web browsers how to display a web page's words and images.
- Each individual piece markup code (which would fall between "<" and ">" characters) is referred to as an element, though many people also refer to it as a tag.
- Some elements come in pairs that indicate when some display effect is to begin and when it is to end.
- Hyper Text Markup Language is the computer language that facilitates website creation.
- The language, which has code words and syntax just like any other language, is relatively easy to comprehend and, as time goes on, increasingly powerful in what it allows someone to create.

➤ Overview of BootStarp :-



- Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.
- It would be easy to send you over to their Getting Started page and call it a day. Their setup guide is indeed a host of useful information - links to CDNs, explanations on how to install with Bower, NPM, and Composer, information on integration with Auto prefixer and LESS, a bunch of templates, licenses, and translations.
- Bootstrap employs a handful of important global styles and settings that you'll need to be aware of when using it, all of which are almost exclusively geared towards the *normalization* of cross browser styles.
- It is a front-end framework used for easier and faster web development.
- It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others. It can also use JavaScript plug-ins. It facilitates you to create responsive designs.

➤ **Overview of MongoDB :-**



- MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL).
- MongoDB Atlas also includes powerful features to enhance reliability for your mission-critical production databases, such as continuous backups and point-in-time recovery.
- MongoDB Atlas makes it easy to control access to your database. Your database instances are deployed in a unique Virtual Private Cloud (VPC) to ensure network isolation.
- MongoDB Atlas automates infrastructure provisioning, setup, and deployment so your teams can get the database resources they need, when they need them. Patches and minor version upgrades are applied automatically.

### 3. System Analysis and Planning

- ✓ Existing System and its Drawbacks
- ✓ Feasibility Study
- ✓ Requirement Gathering And Analysis

## Existing System and its Drawbacks :

- Our aim is to reach people through the latest news and students also have a way of learning new languages by instant blog.

- **Existing System**

- Blogger.com
- Medium.com
- Wordpress.org
- Dev.to

- **Drawbacks:**

- In Wordpress.org you can create blog freely but when you want to host that blog you have to pay for the blog .and its main drawbacks is that Hosting and domain name come with extra price.
- Blogger.com is Free and easy to use, hosting and maintenance is taken care of. Its main drawbacks is that it is Limited to basic blogging tools and lack of design options and you can not provide category search.
  - Blogger displays advertisements on your blog
  - Limited to basic blogging tools and there is no way to add additional features
- In medium All blogs on Medium look the same, there are hardly any customization options. No way to transfer your audience from Medium to any other platform. Monetization options are absent. And you can not search any blog on their category.
- In dev.to When you create a user you automatically follow 50 people. Not that it is super bad, but you get like 150 followers daily and you don't know which one is real and which one automatically assigned.

## Feasibility Study :

- All projects are feasible, provided that unlimited resources and infinite time are available. However, in real world that can sound like dream. Especially computer-based systems are likely to be bounded by limited resources as well as time. Feasibility & risk is related in many ways. If the risk is great then feasibility of producing quality software is reduced.

### **Technical Feasibility :-**

- This project does require that much of higher & advanced technology. It's requires database Interaction and it requires to be accessed via web or internet. This can be easily done. It must be developed within the four months of period excluding the time period for the testing and validation, verification. Thus, it seems that the project is technically feasible to do.

### **Economic Feasibility :-**

- In This project, we will require to not purchasing much of the tools like web cameras to take the photograph of a person or shut Video of that person, but as it will be web-enabled we do not have any extra cost of setting up a network. This is also feasible economically.

### **Operational Feasibility :-**

- The web application can be beneficial only if it satisfies the organization requirement; in such a way that resource utilization & optimum outcome is justified. A web application should not only be robust but should also be able to work Simultaneously with other systems. Operational feasibility means that web application should not affect any existing system during the development phase or even in the implementation phase.

## **Management Feasibility :-**

- Management feasibility ratio and aspect of management News. Here all level of management rise of related basic feasibility and gives their decision for all those feasibilities to use or not is not comes in basic feasibility of system, but how the requirement of that all, after that all manager.

## **Time Feasibility :-**

- Time feasibility describes the time cost for converting the existing system to web application. As far as completion. This System is Developed under the time period of just four months so we can say that this system is time Feasible.

## **Requirement Gathering and Analysis :-**

### ➤ **Requirement Gathering :**

- Gathering requirements for the project is the most important part of the software development.
- There are two main reasons for specifying requirements.
  1. It guides design and decision-making processes towards a correct solution.
  2. Provides a basis of testing the implemented solution correct.
- For gathering basic needs and functionalities, we had meeting with people personally to understand required functionalities also noted down some useful feature to be included.
- Every successful system passes through requirement gathering because without any requirement the development process is like adding bugs in empty system.

- Requirement gathering and analysis makes the whole picture of the system and because of that we can identify the features, the modules, the functionality of the system.

➤ **Requirement Analysis :**

- System should be able to provide registration facility.
- System should provide safe login facility.
- System should provide forgot password facility.
- System should manage email Contact, Live chat with advisor.
- System should be able to add or remove user, blog and also manage its information.
- System should be able to manage Feedback, Comment, Verified & Unverified Blog.
- We analyzed our gathered information and we have decided our system should have following functionalities :-

❖ **Common models**

- Registration
- Login
- Forget Password (User / Admin)
- Logout
- View Profile

**Module 1 ( USER )**

- User Registration.
- User Login / Logout.
- User Change Password.
- User Profile Update.
- User Insert Blog.
- User Update Blog.
- User Delete Blog.

- User Like Blog.
- User Add Comment.
- User Search Blog.
- User Add Feedback.

## Module 2 ( ADMIN )

- Admin Login.
- Admin Logout.
- Admin Profile Update.
- Admin Change Password.
- Admin Insert Blog.
- Admin Verified User Blog.
- Admin Unverified User Blog.
- Admin Send Email To User.
- Admin Add Comment.
- Admin Delete Comment.
- Admin View Top 10 User.
- Admin Edit User's Blog.
- Admin Delete Blog.
- Admin Insert User In Some Cases.

## Module 3 ( FEEDBACK & COMMENT )

- Add Feedback by user
- Add comment by user
- View Feedback & Comment
- Send Feedback email



## 4. System Analysis and Planning

- ✓ Project Scope
- ✓ Project modules
- ✓ Module wise objectives/functionalities Constraints.
- ✓ Expected Advantages

## Project Scope :-

The Online Blogging System will allow the users to publish the writings, blogs, images or if he/she should have credentials to login. The main users of this project are users and administrators.

The Online Blogging System project consists of following functional elements :-

- **Dashboard:** It is the default page of the site and we can access this option from left hand side anytime. All links are available on this page. We can also find the Quick Draft and Activity section here.
- **Blog:** Here we can see all the published contents by clicking on “[All Blogs](#)” option and we can also publish new content by “[Create Blog](#)” option.
- **Media:** We can see the uploaded media items ( images ) by clicking on “[Add Image](#)” option and we can also add new media item from local system with the help of“[Add Image](#)” button.
- **Comments:** In this section, we can check that who, when and what has been commented.
- **Profile:** In this section, we can personalize our profile, Password Change, Profile Picture Change, Display Name, Nickname etc.
- **Tools:** This option is having additional plugins to install, which may enhance the current functionality.
- **Feedbacks:** User can give feedbacks about our website and blog.
- **Home Button:** It is located at the top right portion and we can use this button to check the timeline where we can view the contents published by everyone.
- **Blog Category :** User can view blogs categories wise.

 **Project Modules :-**

- 1) User
- 2) Admin
- 3) Blog
- 4) Comment
- 5) Experts

 **Modules Wise Objectives/functionalities Constraints :-****1) User :-**

- User can register It self.
- User can login.
- User can logout.
- User can manage their profile.
- User can add blog.
- User can view blog.
- User can like blog.
- User can delete blog.
- User can update blog.
- User can add comment.
- User can add feedbacks.
- User can change password.

**2) Admin :-**

- Admin can login.
- Admin can logout.
- Admin can profile update.
- Admin can change password.
- Admin can insert blog.
- Admin can verified user blog.
- Admin can unverified user blog.
- Admin can send e-mail to user.

- Admin can add comment.
- Admin can delete comment.
- Admin can view top 10 user.
- Admin can edit user's blog.
- Admin can delete blog.
- Admin can insert user in some cases.

### **3) Blog :-**

- User & Admin can add blog
- User & Admin can view blog

### **4) Comment :-**

- User & Admin can add comment on blog.
- User & Admin can view like on blog.

### **5) Experts :-**

- All User give feedback about our website and blog to experts.

## **Expected Advantages :-**

### **❖ Easy to use**

- The system is easy to use for every user such as user, admin and system-admin. Easily manage their work with amazing features like add blog, sending email, verify and unverified blog, Notify for every update in event etc.

### **❖ User friendly interface**

- The interface of every panel is minimal and user friendly. Every panel like user, admin and system-admin is fully responsive and run in most of browser such as Google chrome, Mozilla Firefox, Opera etc.

### ❖ Easy to manage

- It is easy to manage every activity and blog for admin. Not only admin but also user can manage their blog in website.
- Ex. user can also delete your blog. Admin and Co - Ordinator can view the user and its blog and update the user blog.

### ❖ Report generating feature

- Admin can generate report of user detail and total blog details.
- Ex. Admin can view particular blog user, verify and unverified the blog after check it, read the top 10 blogs.
- In blog system, Admin can view the total user of our system and total blog of our system, and also view blog total likes, generate the feedback users report.

### ❖ Security

- The system is secured itself because of functionality and features of Node.js – 16.18.2. Not only security of Node.js but we have done encryption and decryption of Password when it passes data from one page to another.
- Ex. Password encryption-decryption

### ❖ Reduce time & manpower

- On desk registration system has many drawbacks like difficulty in managing blogs, difficulty in registration, time consuming and it takes lots of manpower.
- In this system, all the task is done through online with the help of internet and various functionality of system.
- Ex. Create and manage blog through the system, user can create and read the blog through the system etc.

## 5. Detail Planning

- ✓ Data flow diagram/UML
- ✓ Process specification / activity flow diagram
- ✓ Data dictionary
- ✓ Entity-relationship diagram / class diagram

## Data Flow Diagram/UML :-

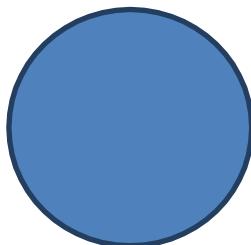
- A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and Outputs. As its name indicates its focus is on the flow of information, where data comes from, where it goes and how it gets stored.

### ❖ Strict landing page policy :

- A data flow diagram needs to be simple because user has to go through it, understand suggest correction or changes.
- External entity
- Data flow
- Process
- Data stores

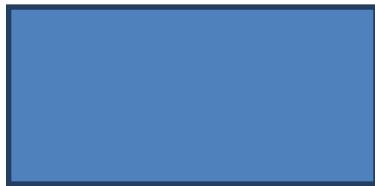
### ❖ Symbols used in DFD:

#### 1. Process : -



- Flow of data is transformed.
- A Process represents some amount of work using behavior of data.
- Transformation of data from one form to another.
- A circle represents a process.
- The area of the circle is divided into two parts.
- The process number is written in the top portion and process name is written in the bottom portion.
- E.g. verify credits, update inventory file, etc.

## 2. External Entity :-



- A source or destination of data which is external to the system.
- As the name suggest it lies outside the context of the system. It is represented by solid squares.
- The people/department that will be giving the data and/or receiving information.
- It can be referred to as external entities as they do not accomplish any work done by the system.
- The data coming in and the report produced are referred as the input and Output of the system respectively.

## 3. Data Flow :-

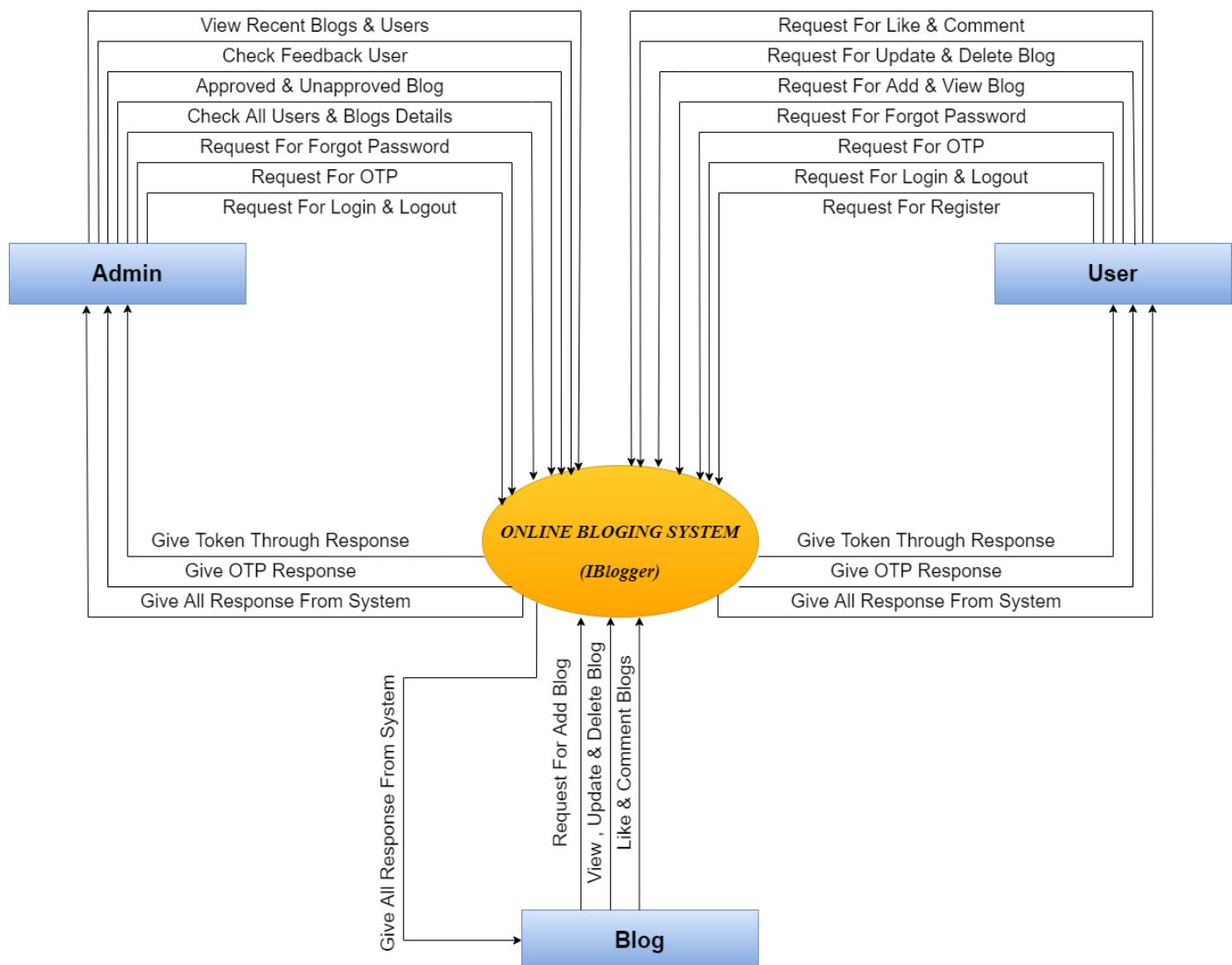


- Line is a packet of data. It may be of form of documentation, letter etc.
- A data flow portrays an interface among different components in the flow diagram.
- It represents the data of the data as it flows through a system. An arrow represents it.
- The arrow head points in the direction in which the data moves.

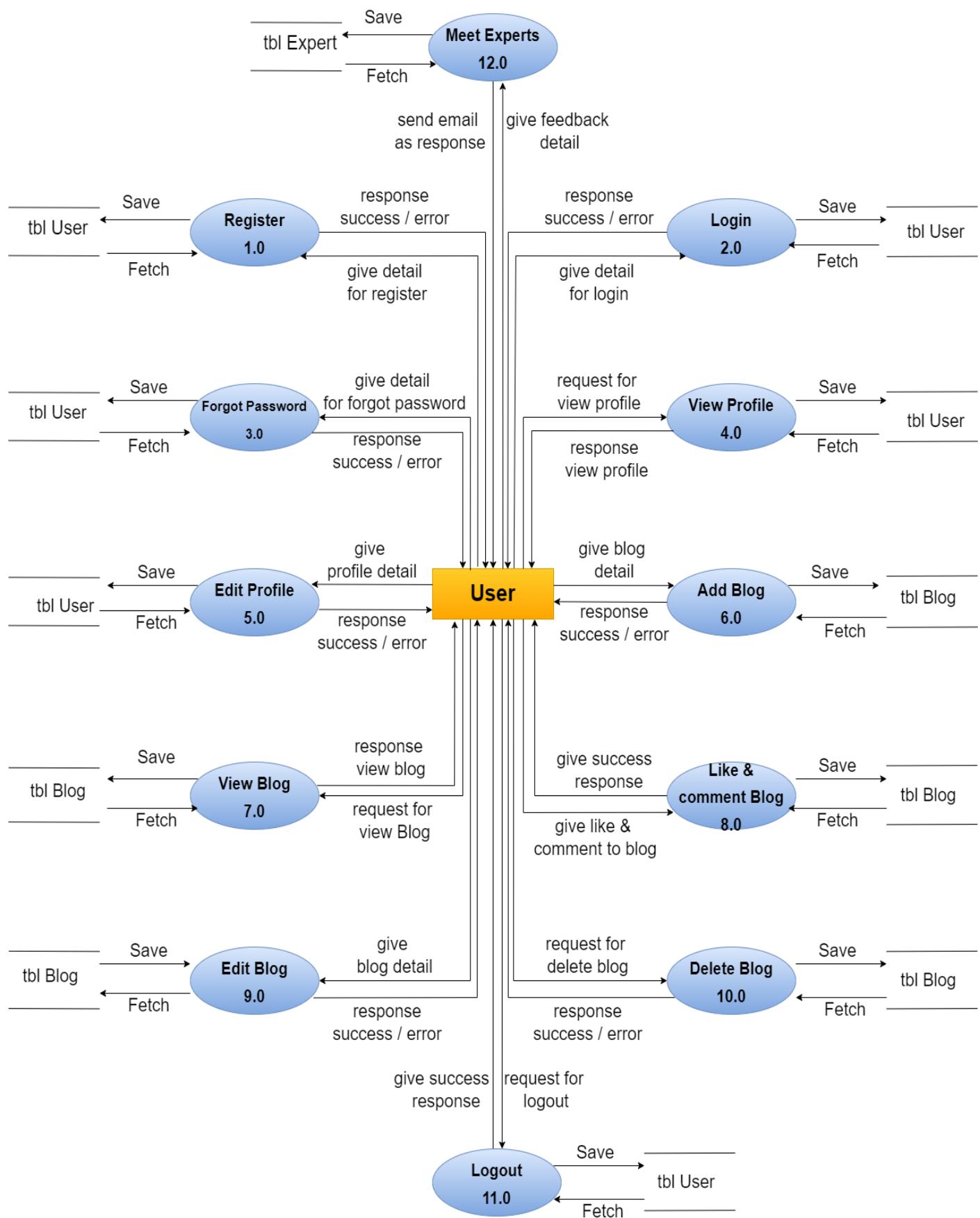
## 4. Data Stores :-

- Any stores data but no reference to the physical method of storing.
- If there is a logical requirement for the data to be stored, it is held in a data store.
- A data store therefore, is a repository of the data.

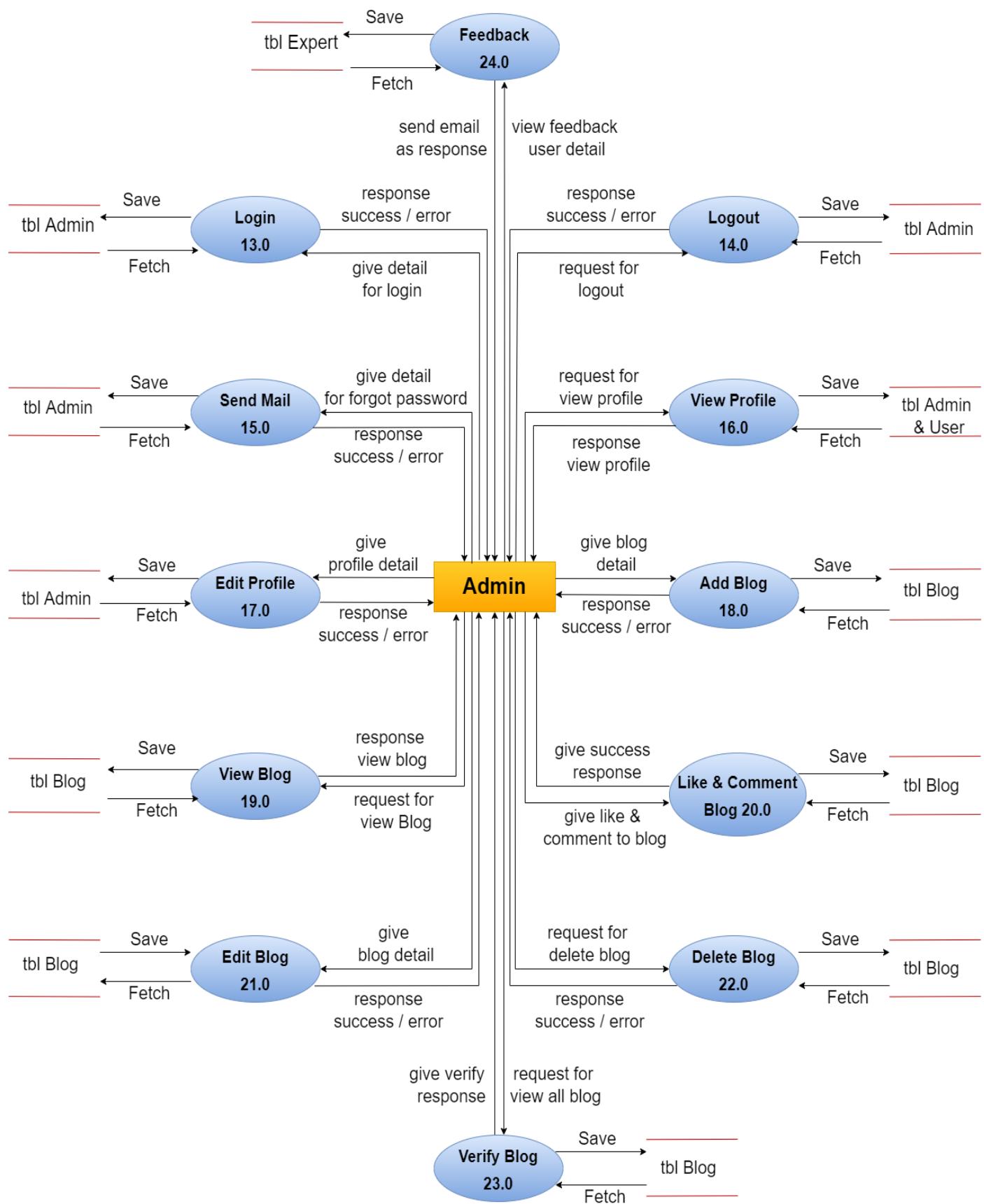
### ❖ Context Level DFD



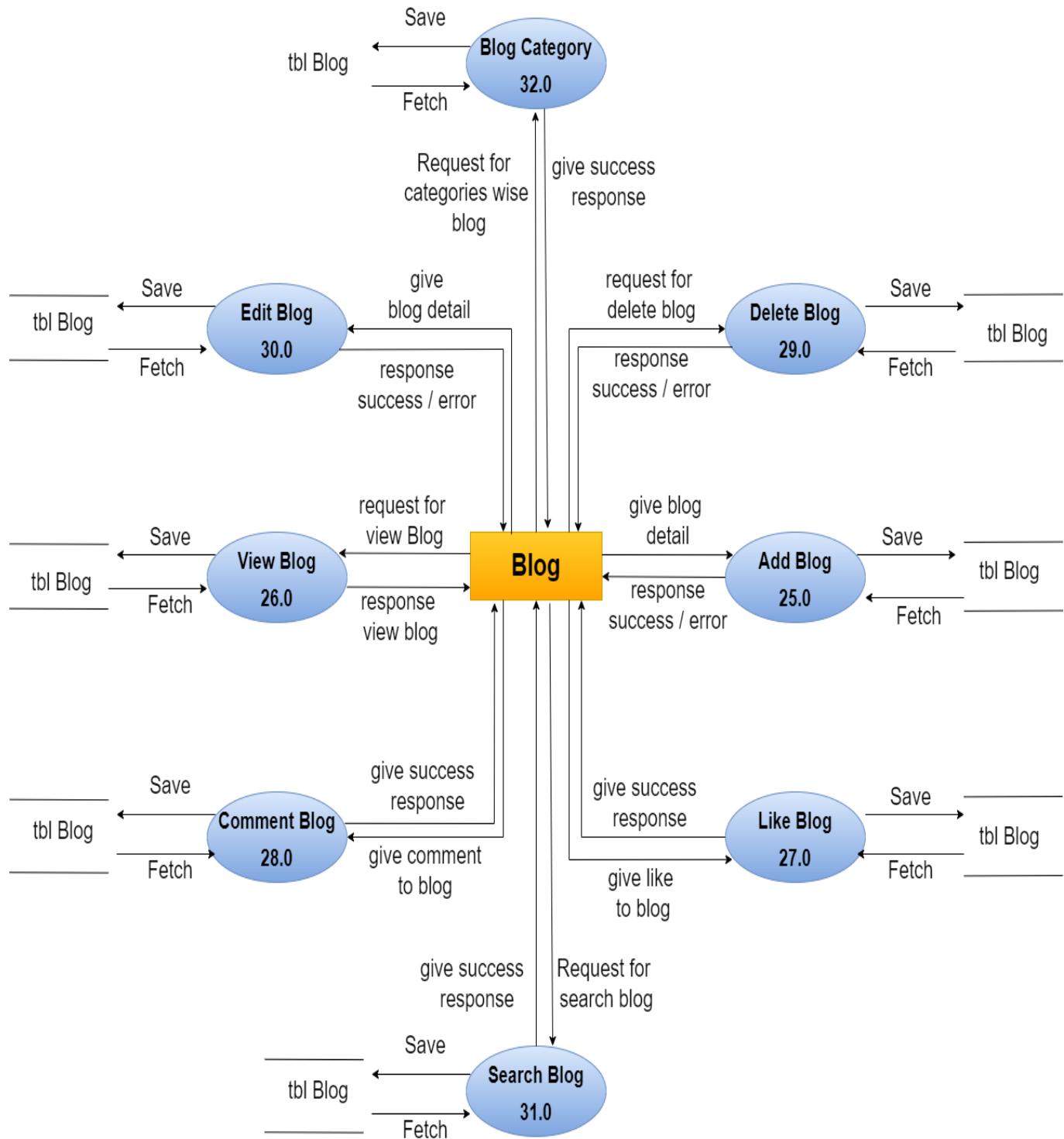
❖ 1<sup>st</sup> Level DFD ( User )



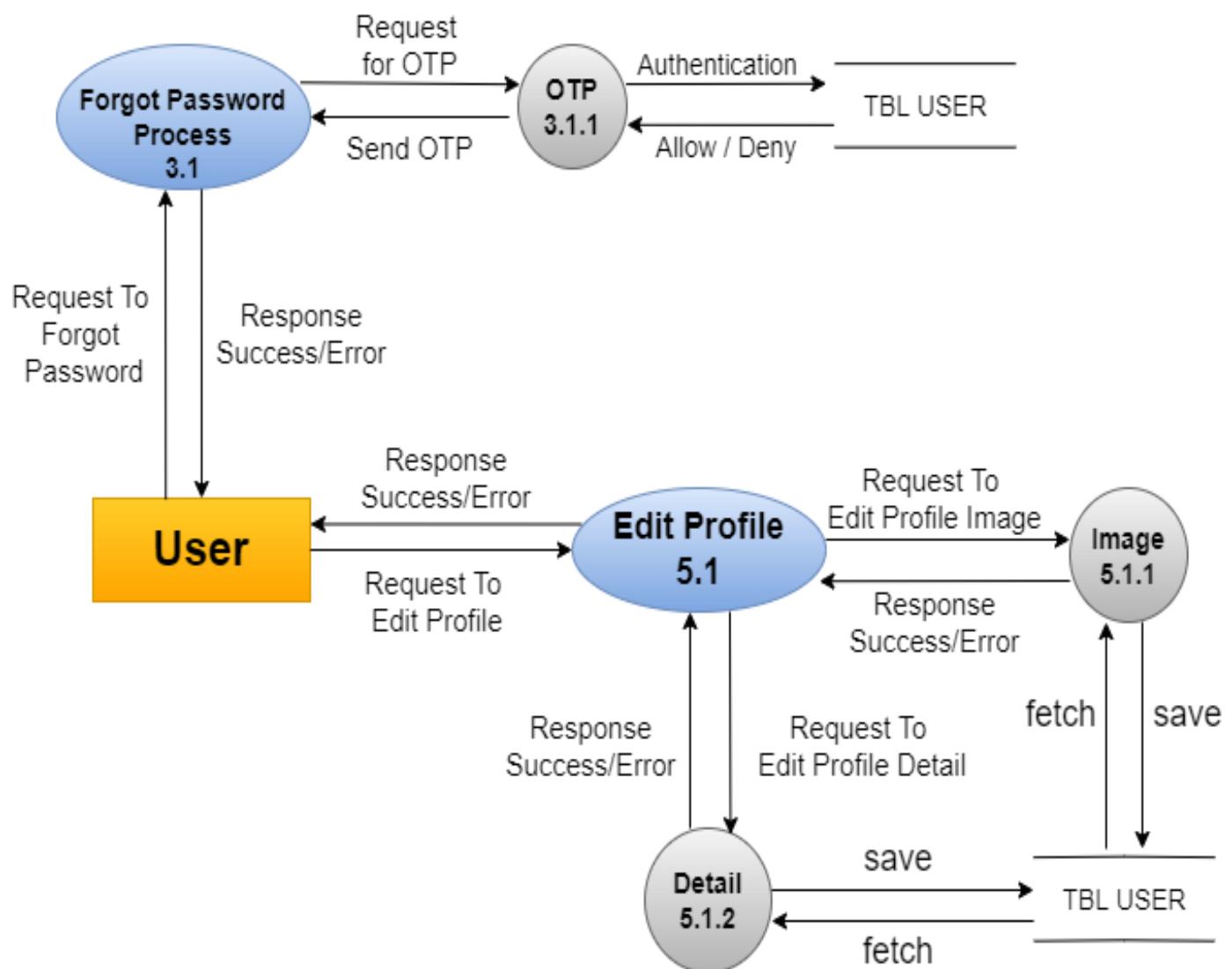
❖ 1<sup>st</sup> Level DFD ( Admin )



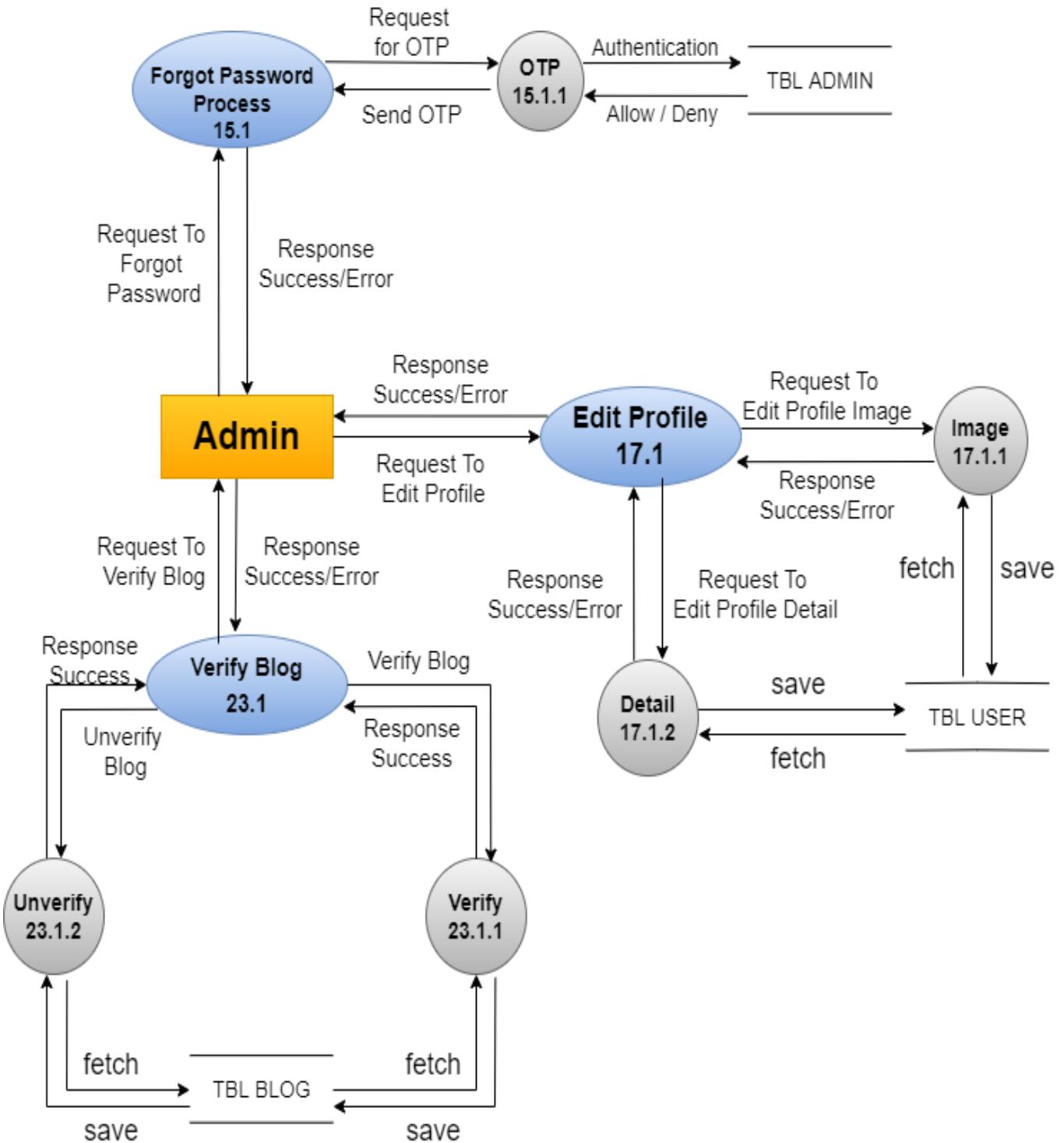
❖ 1<sup>st</sup> Level DFD ( Blog )



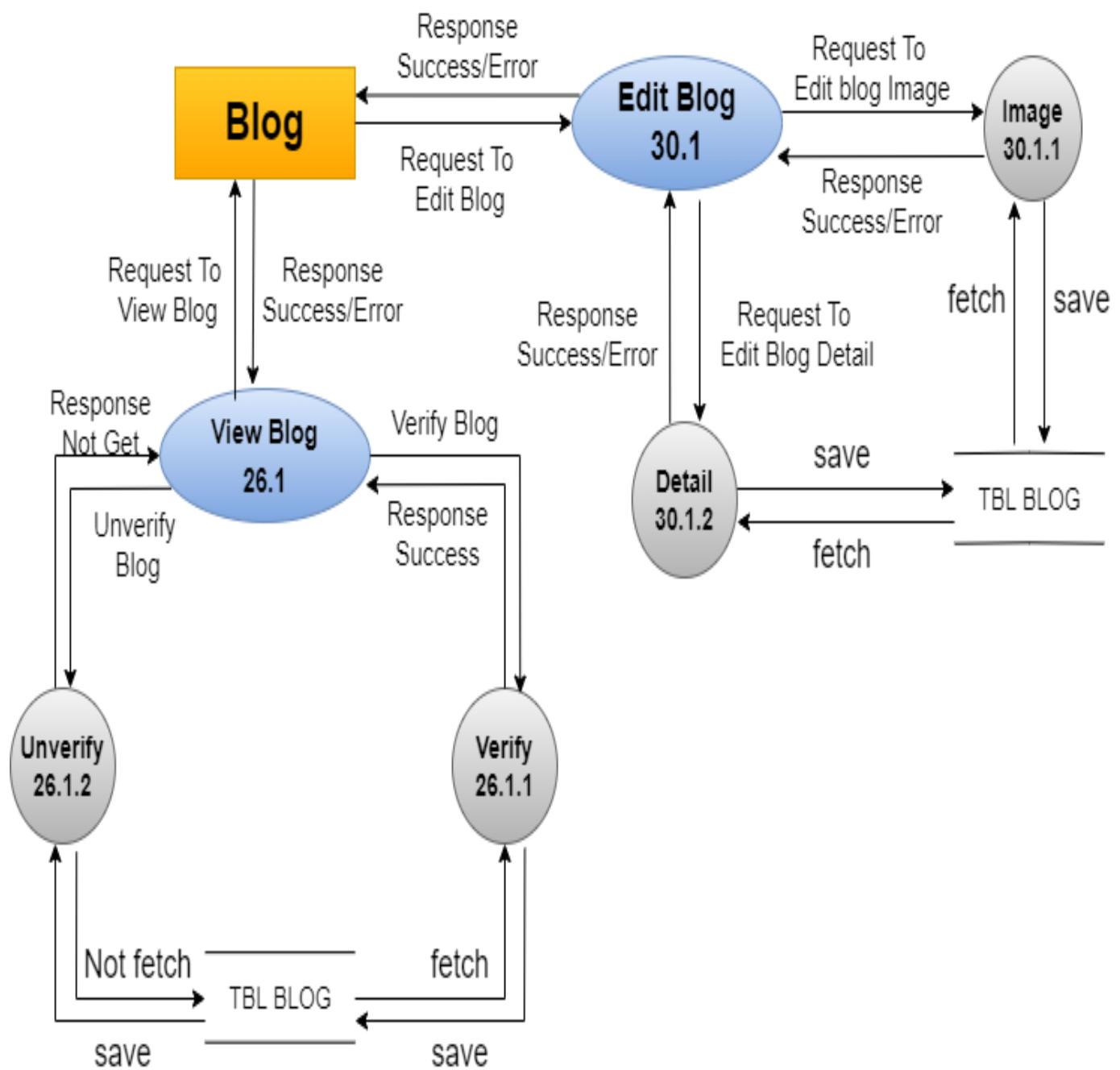
❖ 2<sup>st</sup> Level DFD ( User )



### ❖ 2<sup>nd</sup> Level DFD ( Admin )

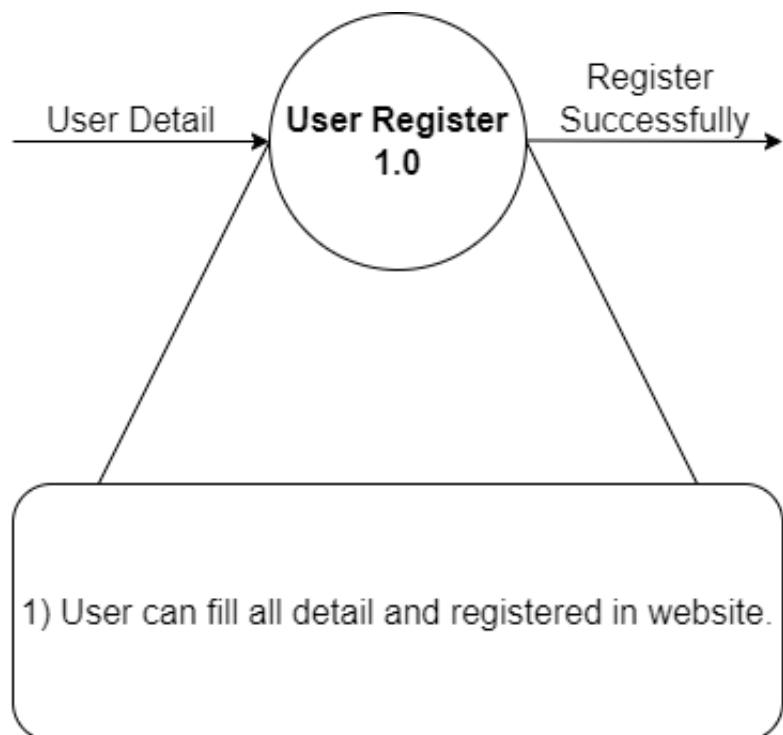


❖ 2<sup>nd</sup> Level DFD ( Blog )

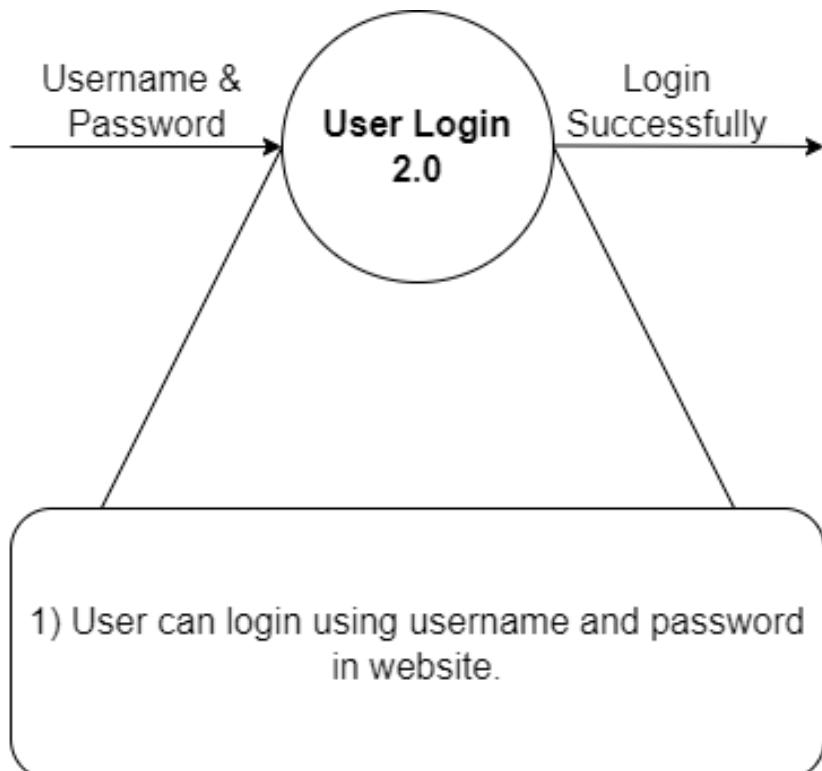


## Process Specification :-

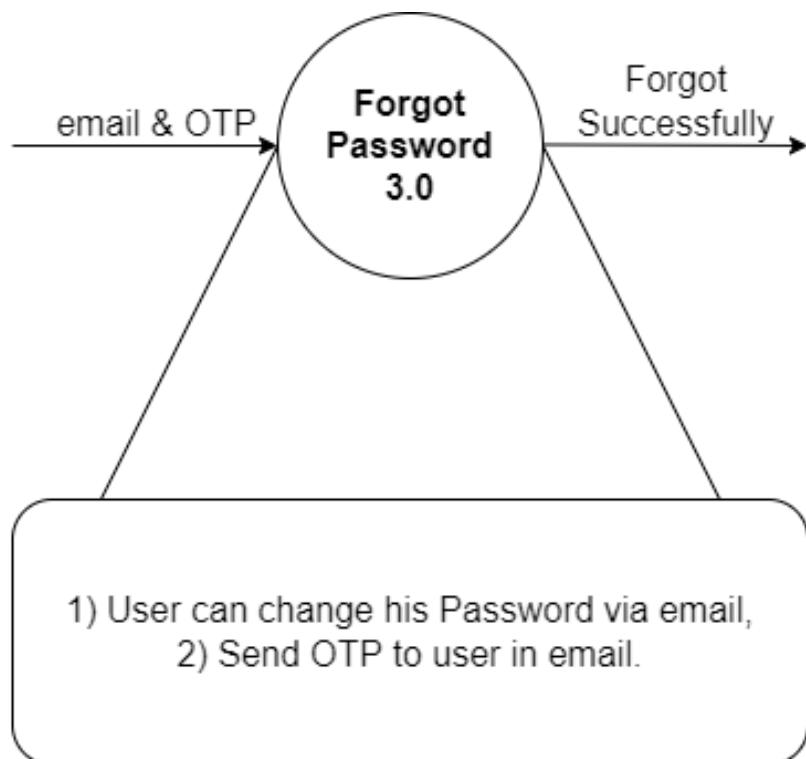
### ❖ User Register



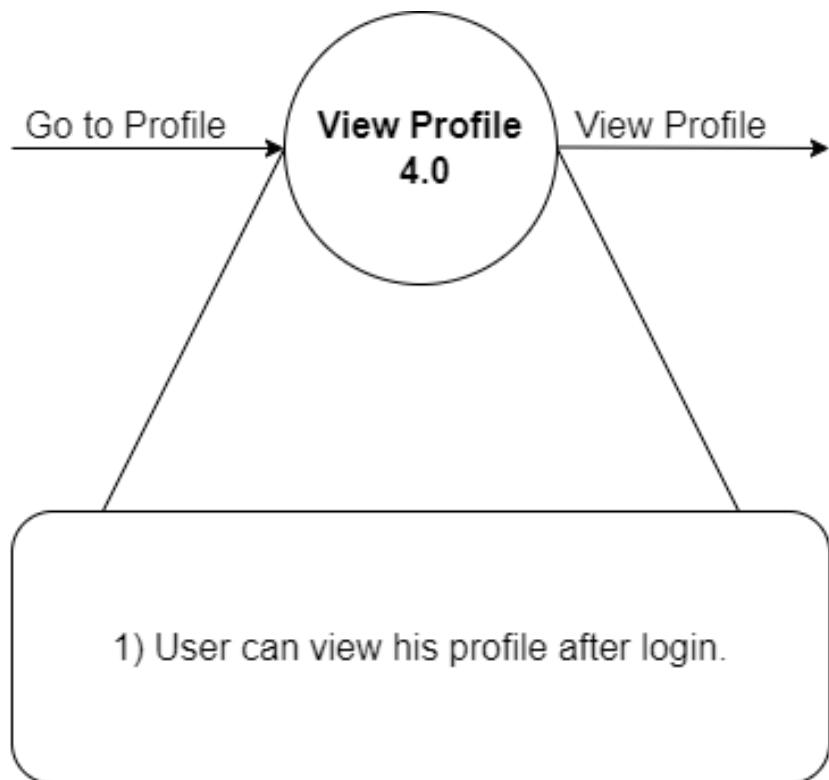
### ❖ User Login



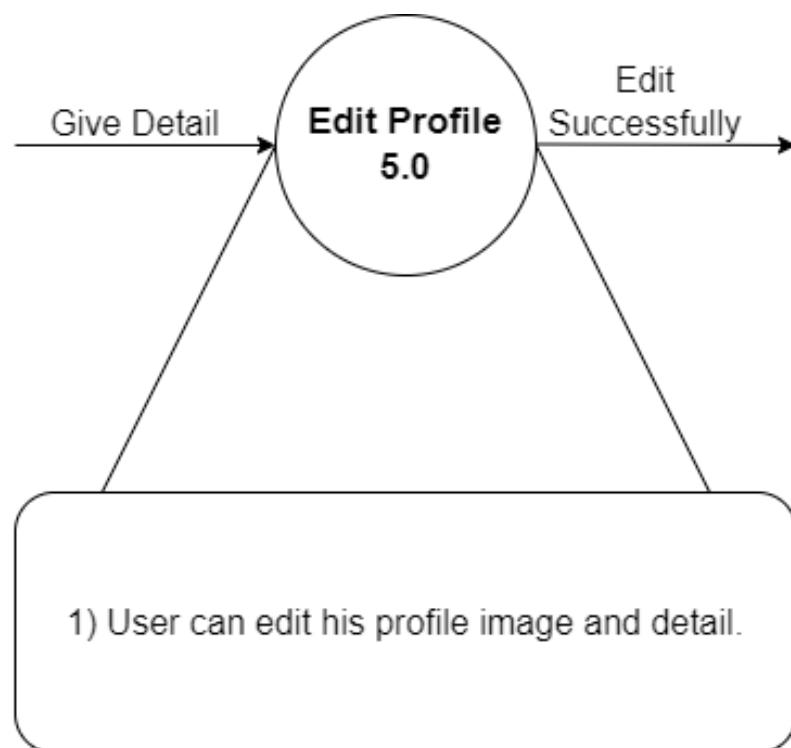
❖ User Forgot Password



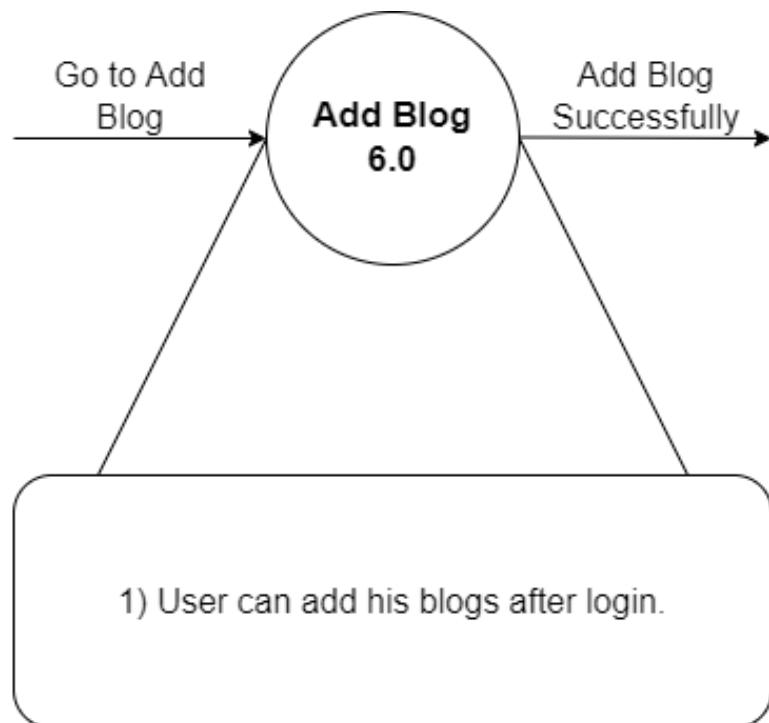
❖ User View Profile



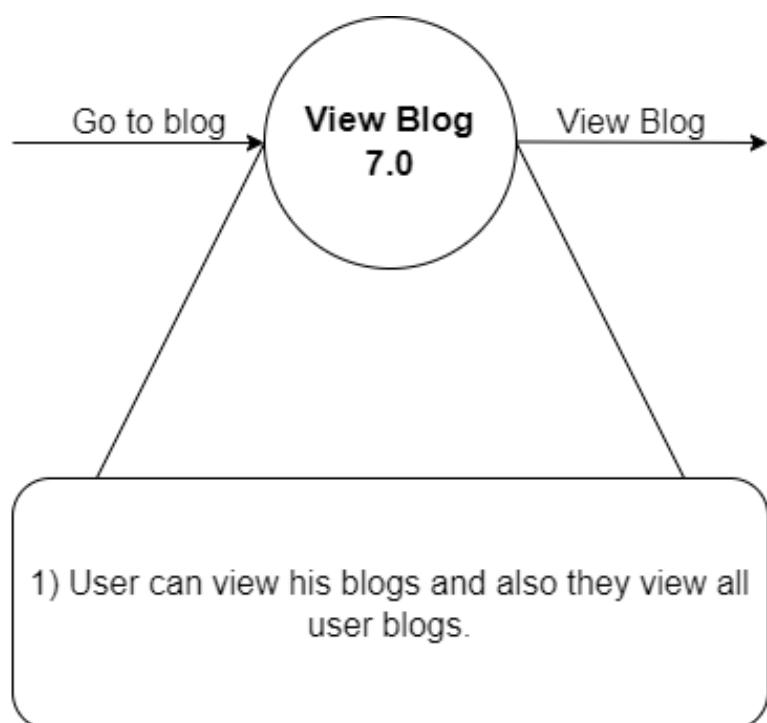
❖ User Edit Profile



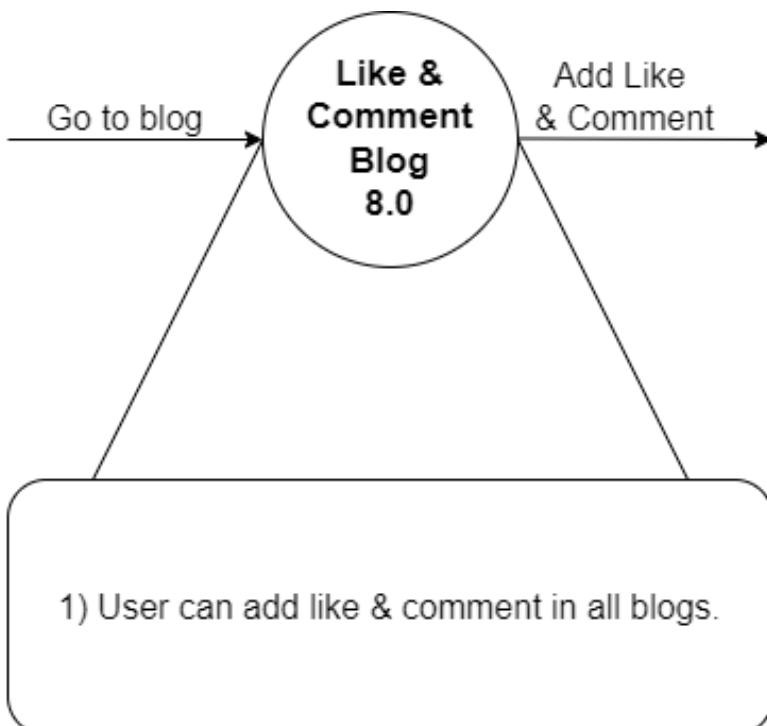
❖ User Add Blog



❖ User View Blog



❖ User Like & Comment Blog



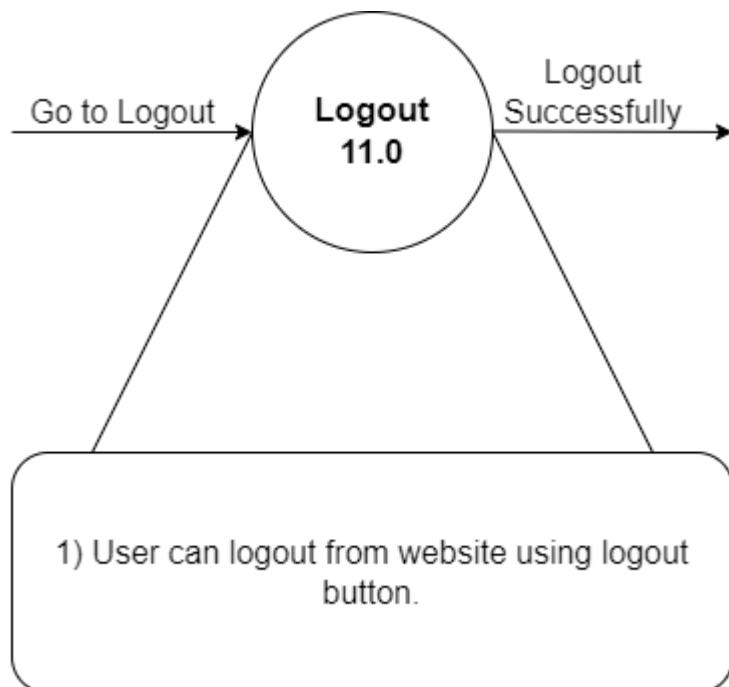
❖ User Edit Blog



❖ User Delete Blog



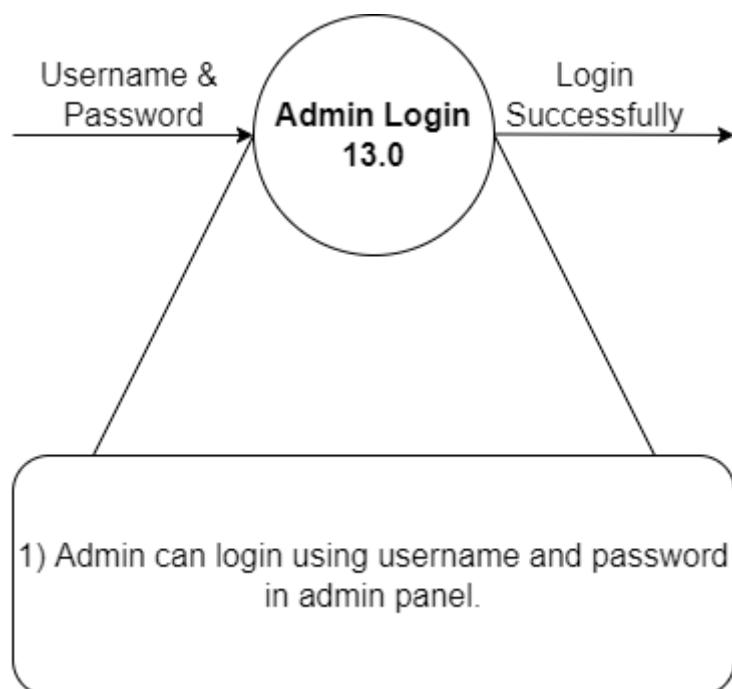
❖ User Logout



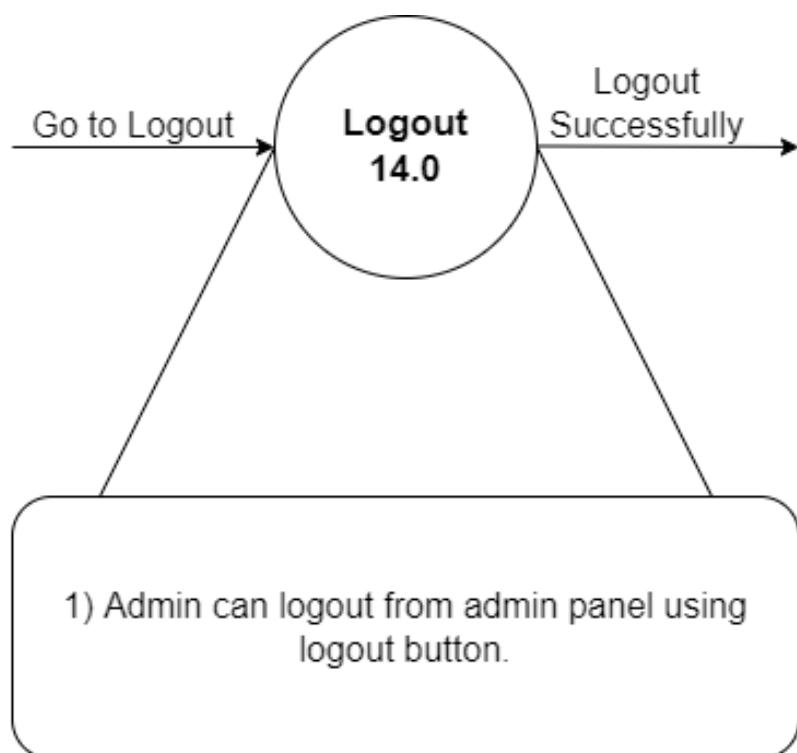
❖ User Meet Experts



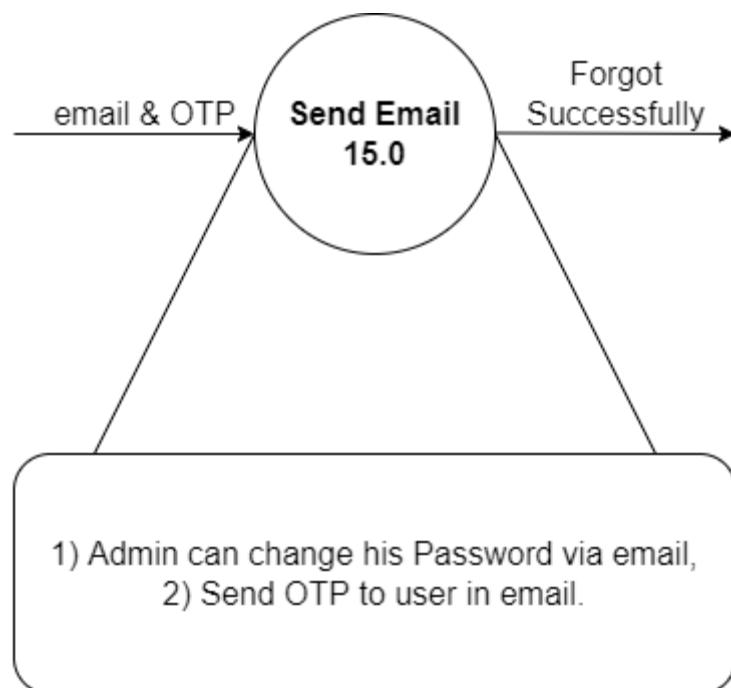
❖ Admin Login



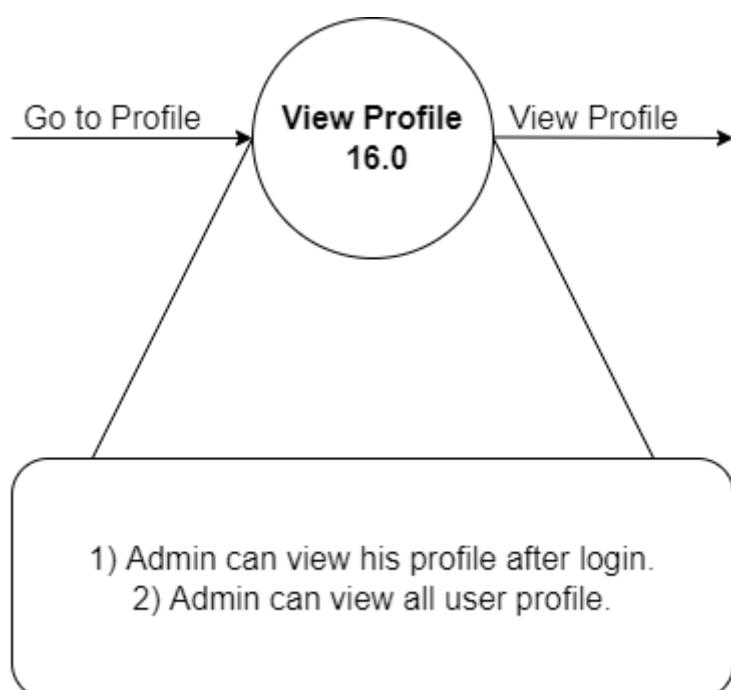
❖ Admin Logout



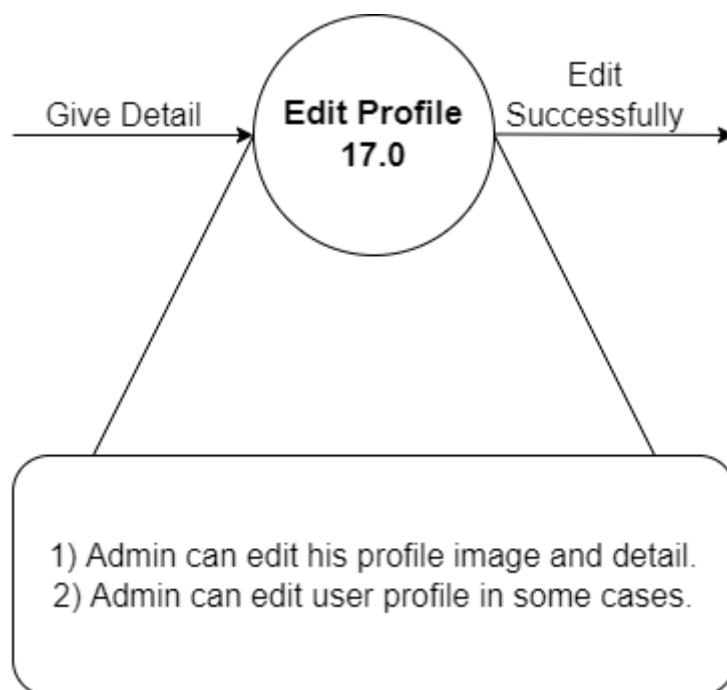
❖ Admin Send Email For Forgot password



❖ Admin View Profile



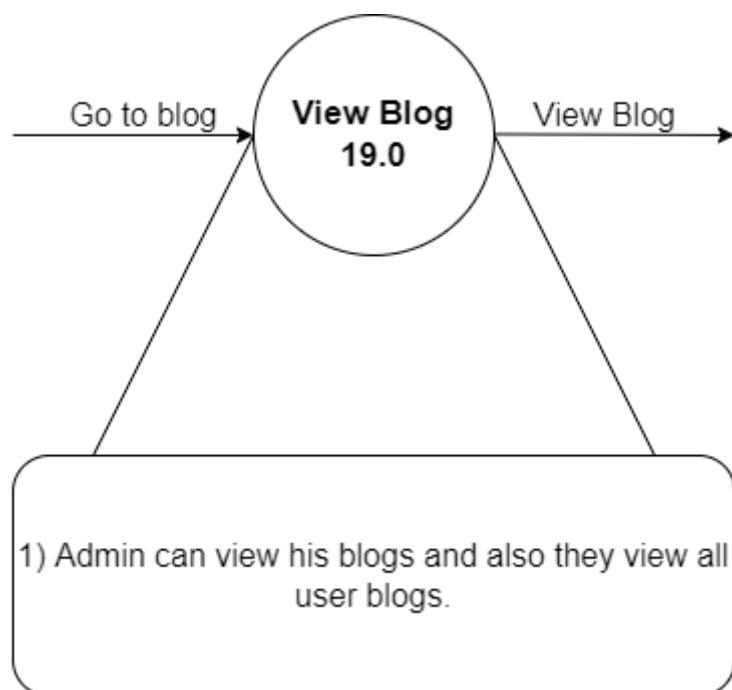
❖ Admin Edit Profile



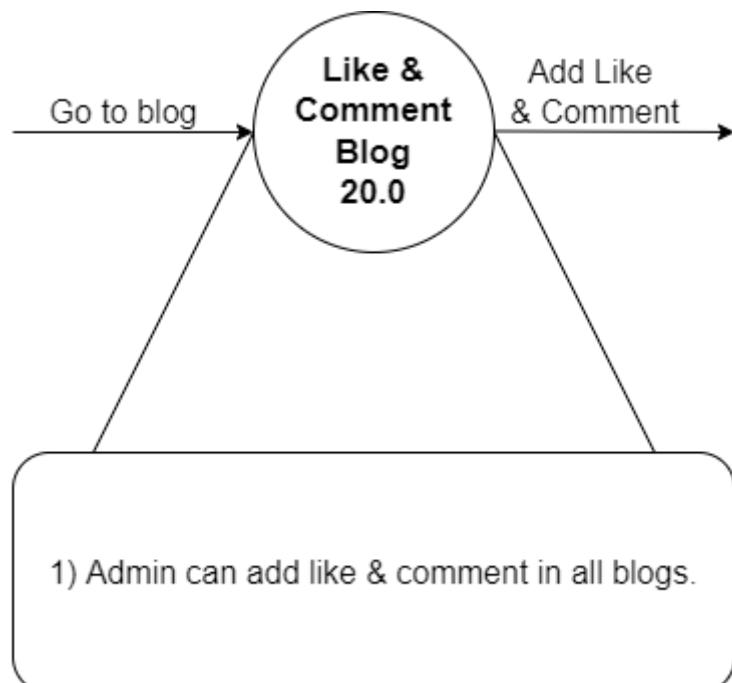
❖ Admin Add Blogs



❖ Admin View Blogs



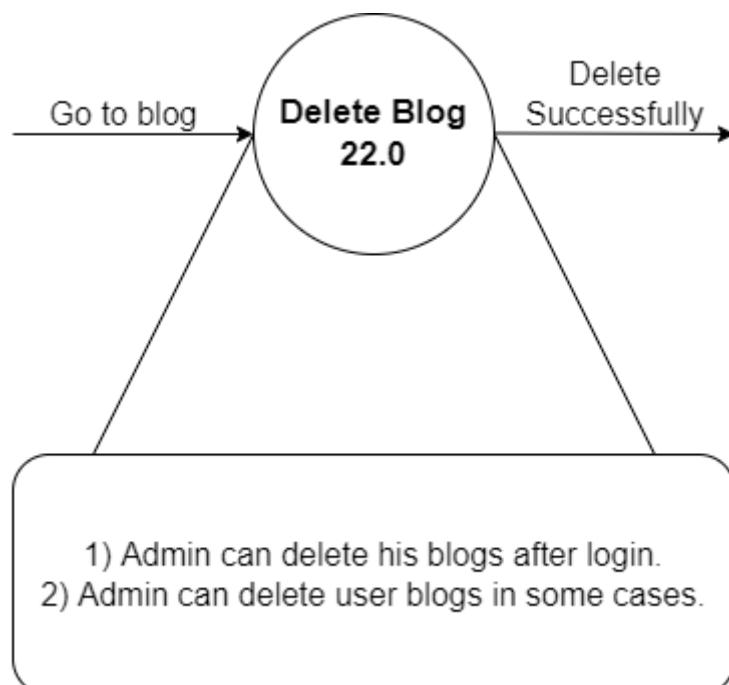
❖ Admin Like & Comment blogs



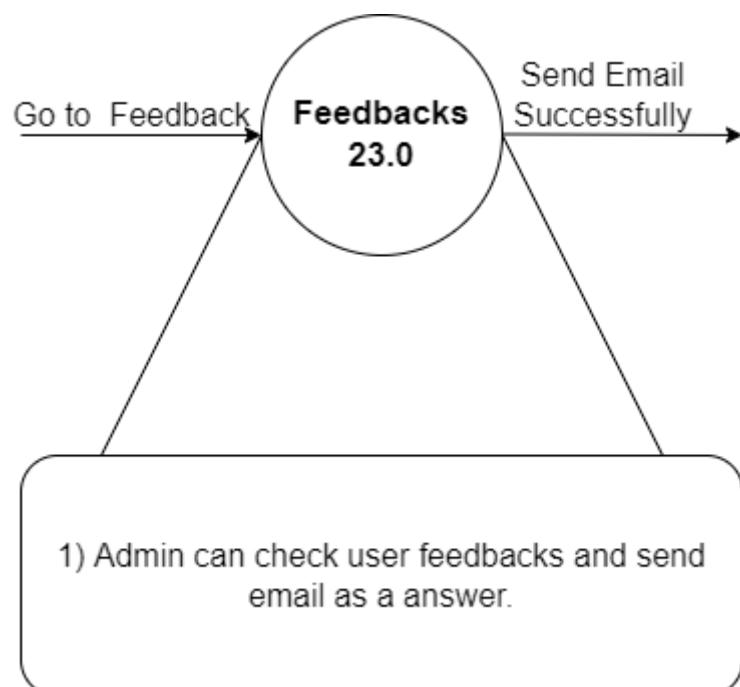
❖ Admin Edit Blogs



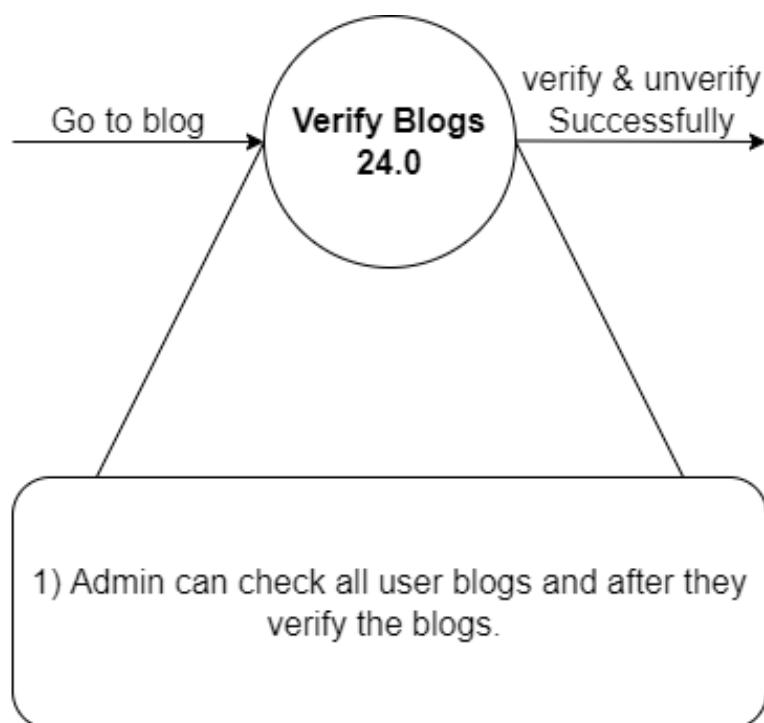
❖ Admin Delete Blogs



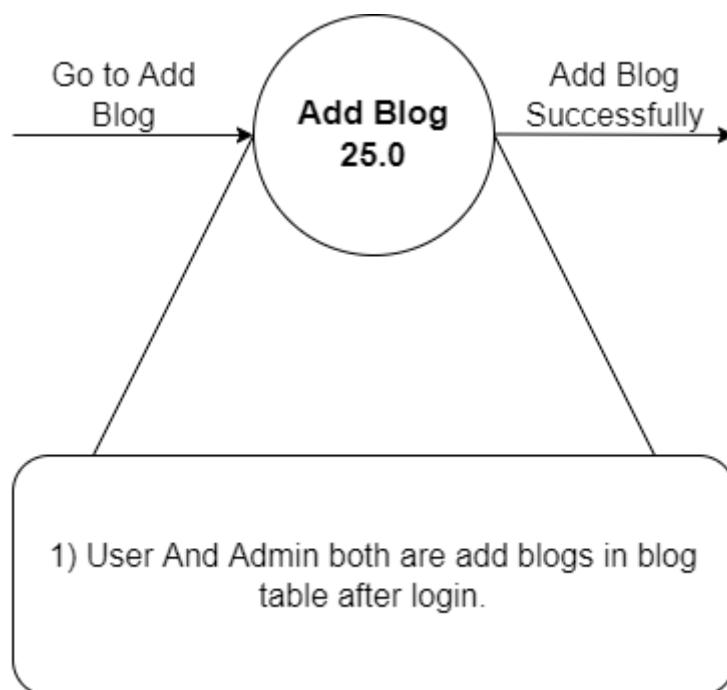
❖ Admin Check Feedbacks



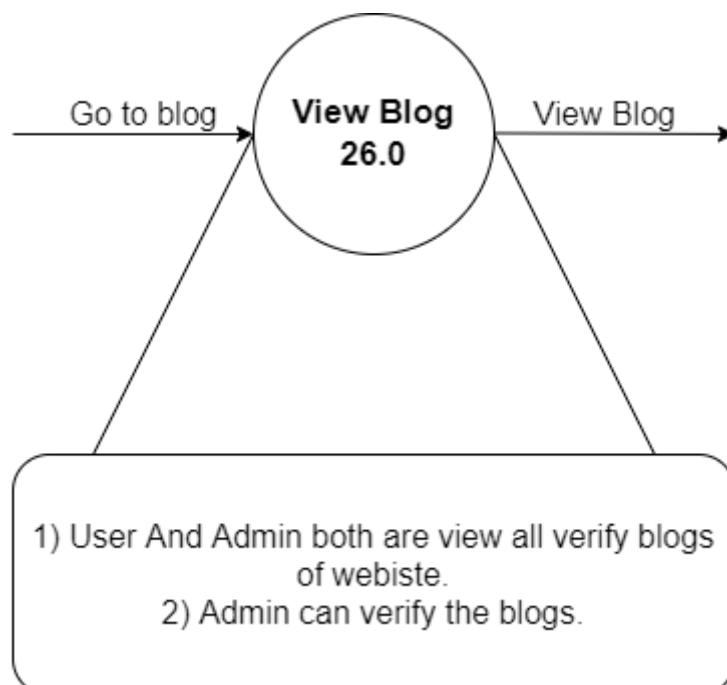
❖ Admin Verify Blogs



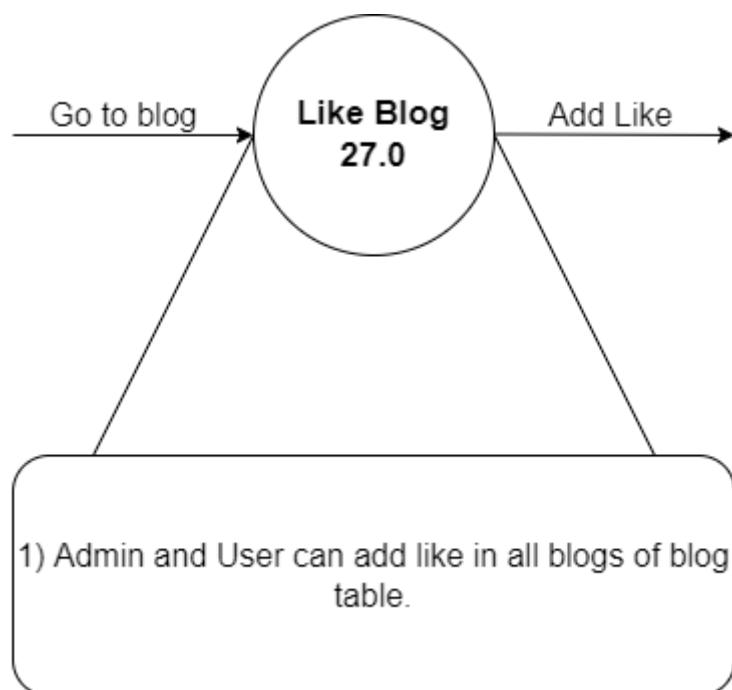
❖ Add Blogs



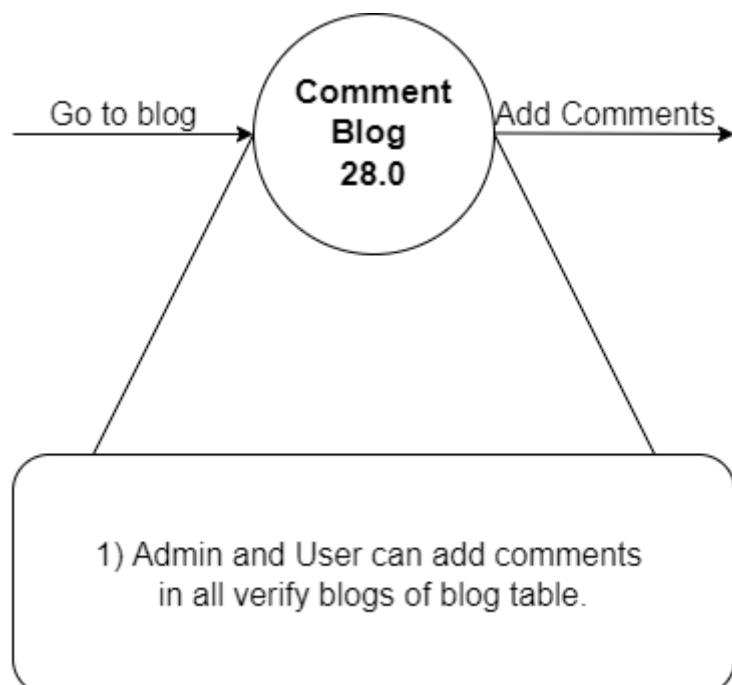
❖ View Blogs



❖ Like Blogs



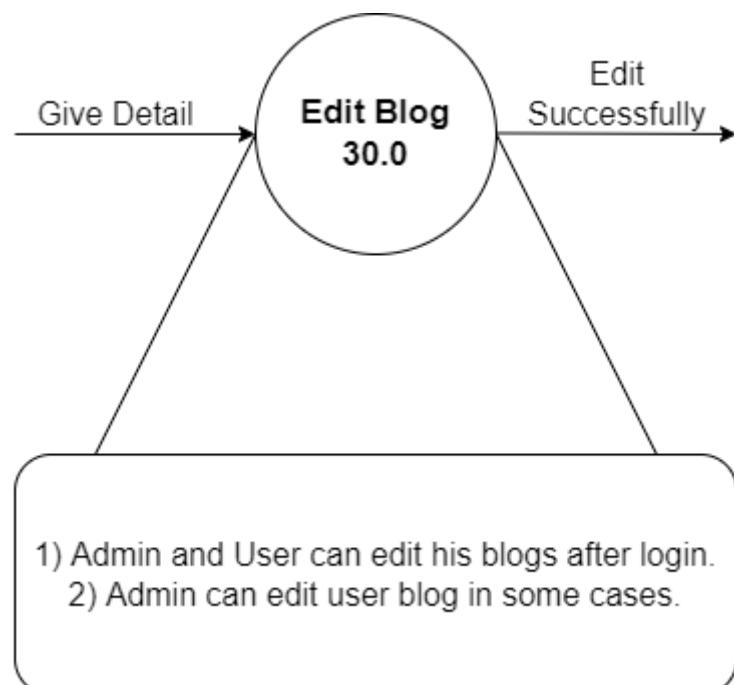
❖ Comment Blogs



❖ Delete Blogs



❖ Edit blogs



 **Data Dictionary :-**
**❖ User :-**

Field	Type	Null	Key	Description
User_id	Autogenerate	Null	Primary	User_id is unique id of user data.
Name	String	Not Null		It displays user's name.
Email	Email form	Not Null		It displays user's email.
Gender	String	Not Null		It displays user's gender.
Phone	Number	Not Null		It displays user's phone number.
Username	String	Not Null		It displays user's username.
Password	Password (encrypted)	Not Null		It displays user's password.
Images	Files	Not Null		It displays user's profile image.
Image path	String	Null		It displays user's image path.
Token	String (Autogenerate)	Null		It displays user's login token.
Date & Time	String (Autogenerate)	Null		It displays user's register date and time.

## ❖ Admin :-

Field	Type	Null	Key	Description
Admin_id	Autogenerate	Null	Primary	Admin_id is unique id of admin data.
Name	String	Not Null		It displays admin's name.
Email	Email form	Not Null		It displays admin's email.
Gender	String	Not Null		It displays admin's gender.
Phone	Number	Not Null		It displays admin's phone number.
Username	String	Not Null		It displays admin's username.
Password	Password (encrypted)	Not Null		It displays admin's password.
Images	Files	Not Null		It displays admin's profile image.
Image path	String	Null		It displays admin's image path.
Token	String (Autogenerate)	Null		It displays admin's login token.
Date & Time	String (Autogenerate)	Null		It displays admin's register date and time.

## ❖ Blog :-

<b>Field</b>	<b>Type</b>	<b>Null</b>	<b>Key</b>	<b>Description</b>
Blog_id	Autogenerate	Null	Primary	Admin_id is unique id of admin data.
Source_id	Autogenerate	Null	Foreign	Source_id is unique id of user and admin data.
Title	String	Not Null		It displays blog's title.
Image	file	Not Null		It displays blog's image file.
Tags	String	Not Null		It displays blog's tags.
Short description	String	Not Null		It displays blog's Short description.
Long Description	String	Not Null		It displays blog's long description.
Image path	String	Null		It displays blog's image path.
Like	Number	Null		It displays blog's total likes.
Comments	String	Not Null		It displays blog's total comments.
Date & Time	String (Autogenerate)	Null		It displays blog's created date and time.

## ❖ Comment :-

Field	Type	Null	Key	Description
comment_id	Autogenerate	Null	Primary	Comment_id is unique id of comment data.
blog_id	Autogenerate	Null	Foreign	blog_id is unique id of blog data.
Source_id	Autogenerate	Null	Foreign	blog_id is unique id of user data.
Name	String	Not Null		It displays user name they push comment on blogs.
Comment	String	Not Null		It displays comment's of blogs.
Tags	String	Not Null		It displays tag of comments.
Date & Time	String (Autogenerate)	Null		It displays comment created date and time.

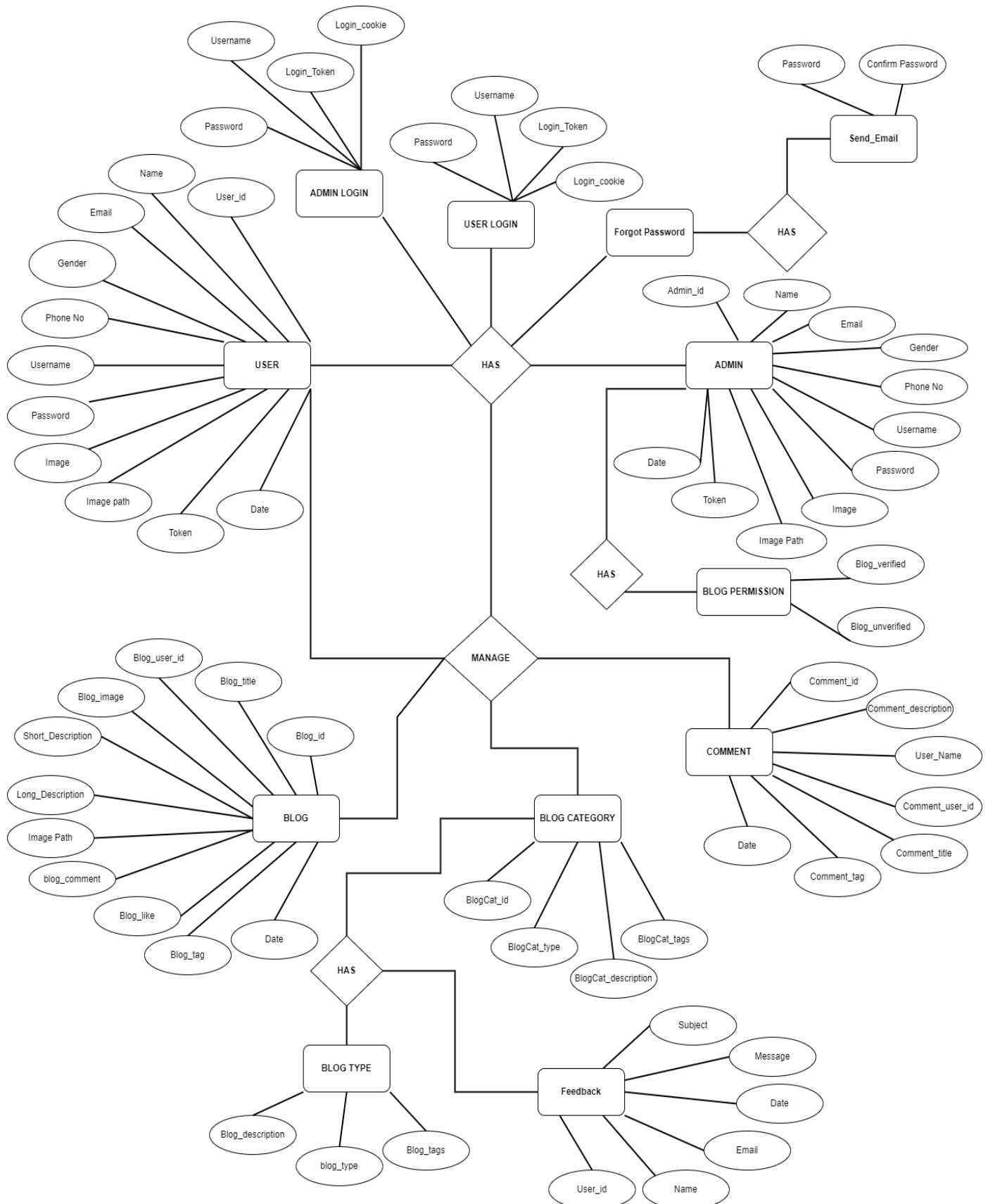
## ❖ Forgot Password :-

<b>Field</b>	<b>Type</b>	<b>Null</b>	<b>Key</b>	<b>Description</b>
User_id	Autogenerate	Null	Foreign	User_id is unique id of user data.
Email	Email form	Not Null		It displays user email they save in use database.
OTP	String	Not Null		It displays unique OTP for security
Password	Password (encrypted)	Not Null		It displays new password of user.
Confirm Password	Password (encrypted)	Not Null		It displays new confirm password of user.
Date & Time	String (Autogenerate)	Null		It displays user data updated date and time.

## ❖ Feedback :-

Field	Type	Null	Key	Description
user_id	Autogenerate	Null	Primary	user_id is unique id of feedback data.
Name	String	Not Null		It displays user name they give feedback.
Email	Email Form	Not Null		It displays user email.
Subject	String	Not Null		It displays subject of feedback topic.
Message	String	Not Null		It displays message of feedback.
Date & Time	String (Autogenerate)	Null		It displays created date and time.

## Entity-Relationship Diagram :-



## 6. System Design

- ✓ Directory Structure
- ✓ Input/Output Design



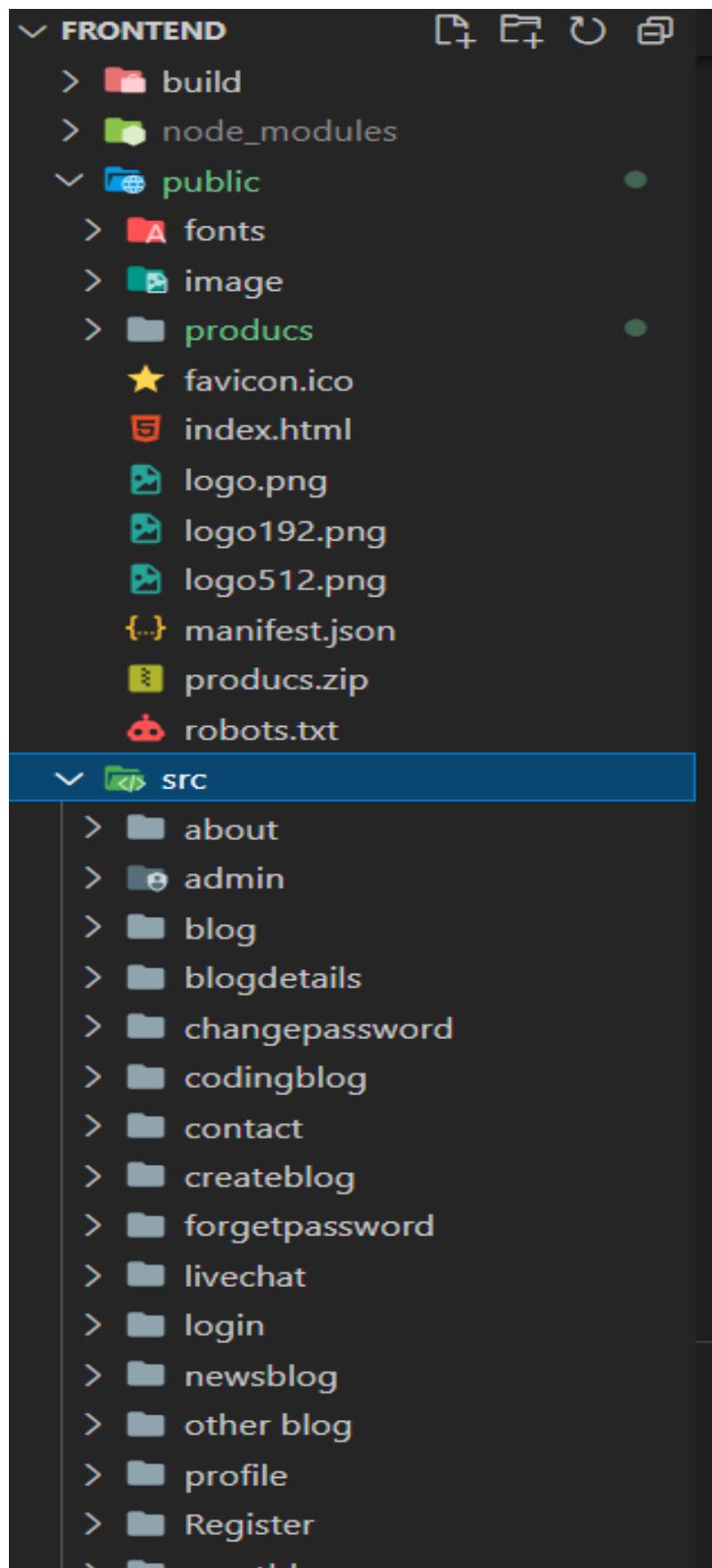
## 📁 Directory Structure :-

### ❖ Backend :-

The screenshot shows a file explorer window with the following directory structure:

- BACKEND
  - node\_modules
  - src
    - controller
      - blog.controller.js
      - comment.controller.js
      - contact.controller.js
      - user.controller.js
    - db
      - conn.js
    - helpers
      - APIResponse.js
      - verifyToken.js
    - model
      - blog.model.js
      - comment.model.js
      - contact.model.js
      - index.js
      - user.model.js
    - public
    - routes
      - blog.route.js
      - comment.route.js
      - contact.route.js
      - user.route.js
    - utils
      - image.js
  - .env
  - ~\$logger (1).docx
  - IBlogger.postman\_collection.j...
  - package-lock.json
  - package.json

❖ Frontend :-

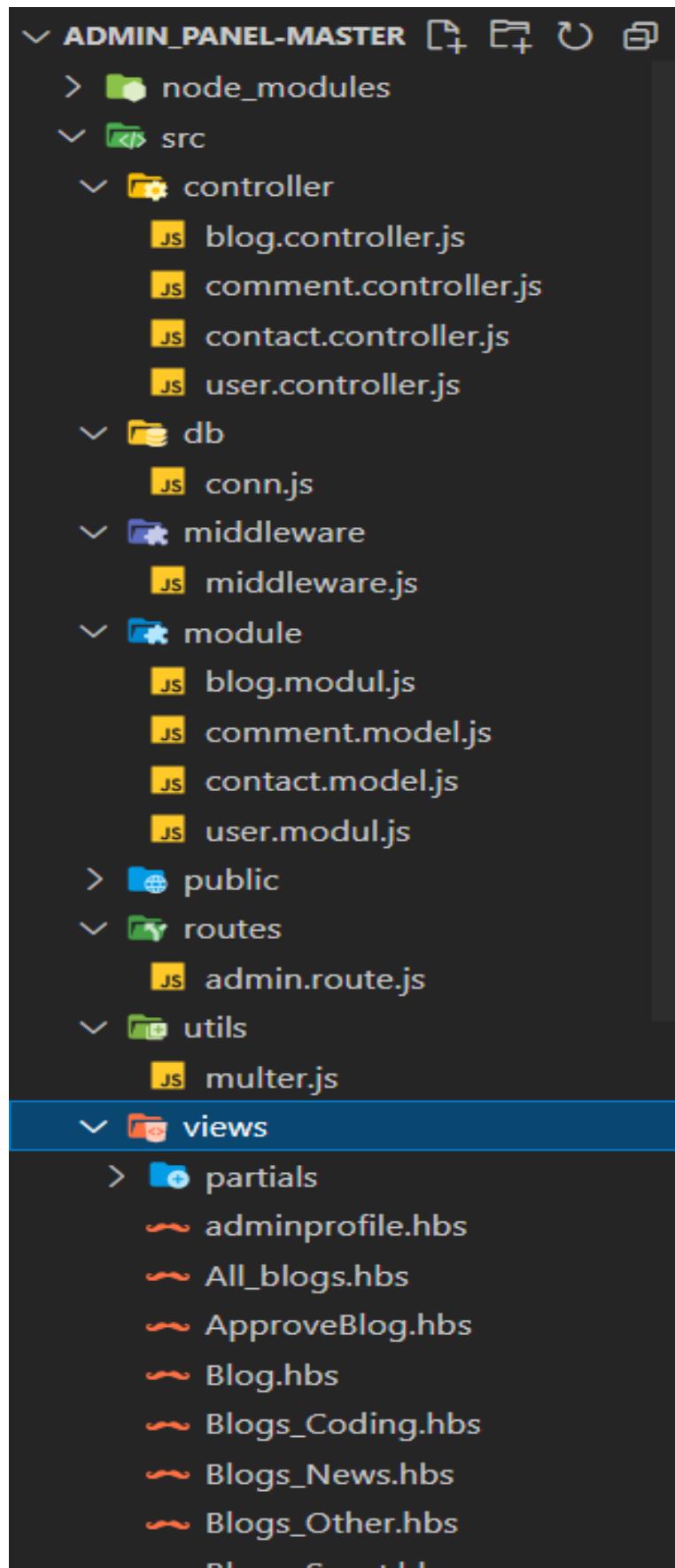


FRONTEND

- / — profile
- > Register
- > sportblog
- > updateblog
- > updatephoto
- > updateProfile
- > userblog
- > video
- App.css
- App.js
- App.test.js
- bootstrap.min.css
- font-awesome.css
- Footer.jsx
- Habout.jsx
- Hblog.jsx
- Home.js
- index.css
- index.js
- logo.svg
- MainBanner.jsx
- Navbar.jsx
- reportWebVitals.js
- setupTests.js
- Style.css
- url.js
- .gitignore
- package-lock.json
- package.json
- README.md

> OUTLINE

❖ Admin Panel :-



The screenshot shows a file explorer window with the following directory structure:

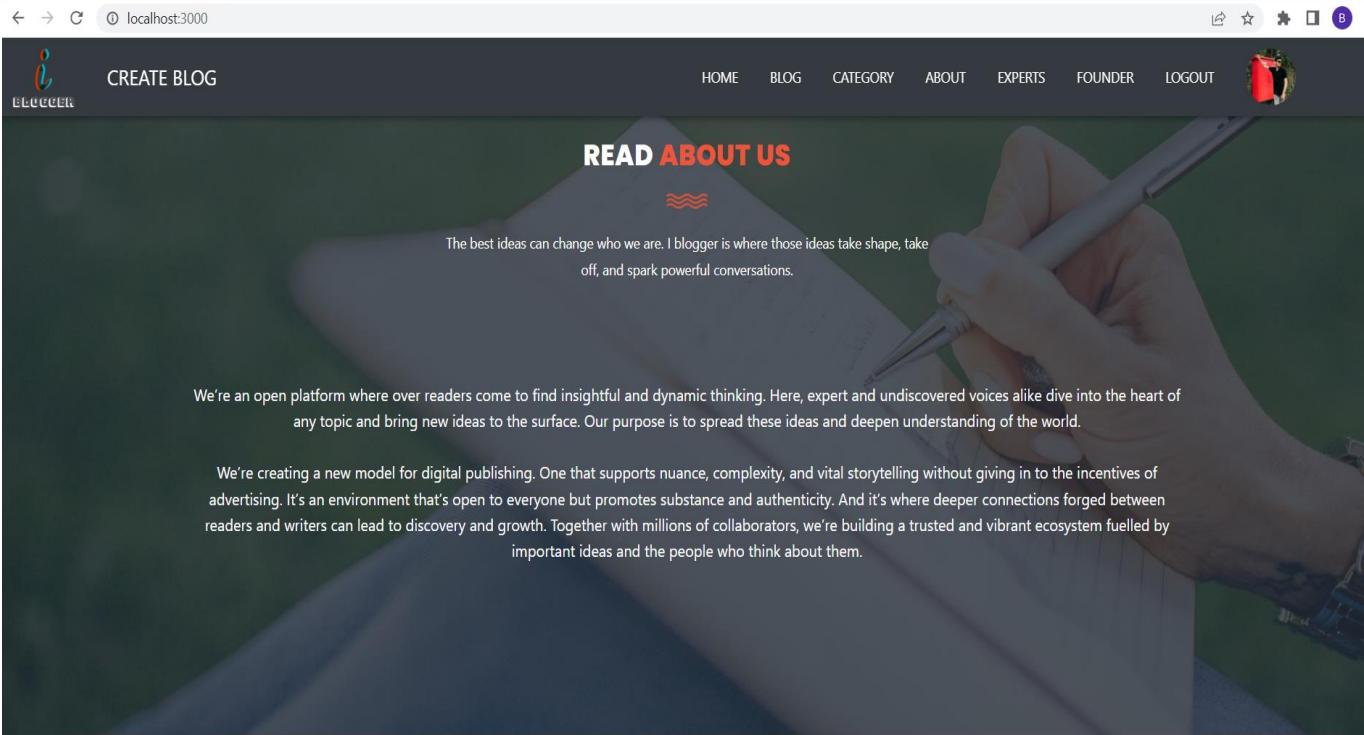
- ADMIN\_PANEL-MASTER
  - routes
    - admin.route.js
  - utils
    - multer.js
  - views
    - partials
    - adminprofile.hbs
    - All\_blogs.hbs
    - ApproveBlog.hbs
    - Blog.hbs
    - Blogs\_Coding.hbs
    - Blogs\_News.hbs
    - Blogs\_Other.hbs
    - Blogs\_Sport.hbs
    - ContectUs.hbs
    - Contectview.hbs
    - CreateBlog.hbs
    - EditBlog.hbs
    - editprofile.hbs
    - ErrorPage.hbs
    - index.hbs
    - login.hbs
    - register.hbs
    - UserAllBlogs.hbs
    - UserTable.hbs
- .env
- .gitignore
- package-lock.json
- package.json
- server.js

At the bottom of the window, there are two buttons: > OUTLINE and > TIMELINE.

## Input/Output Design :-

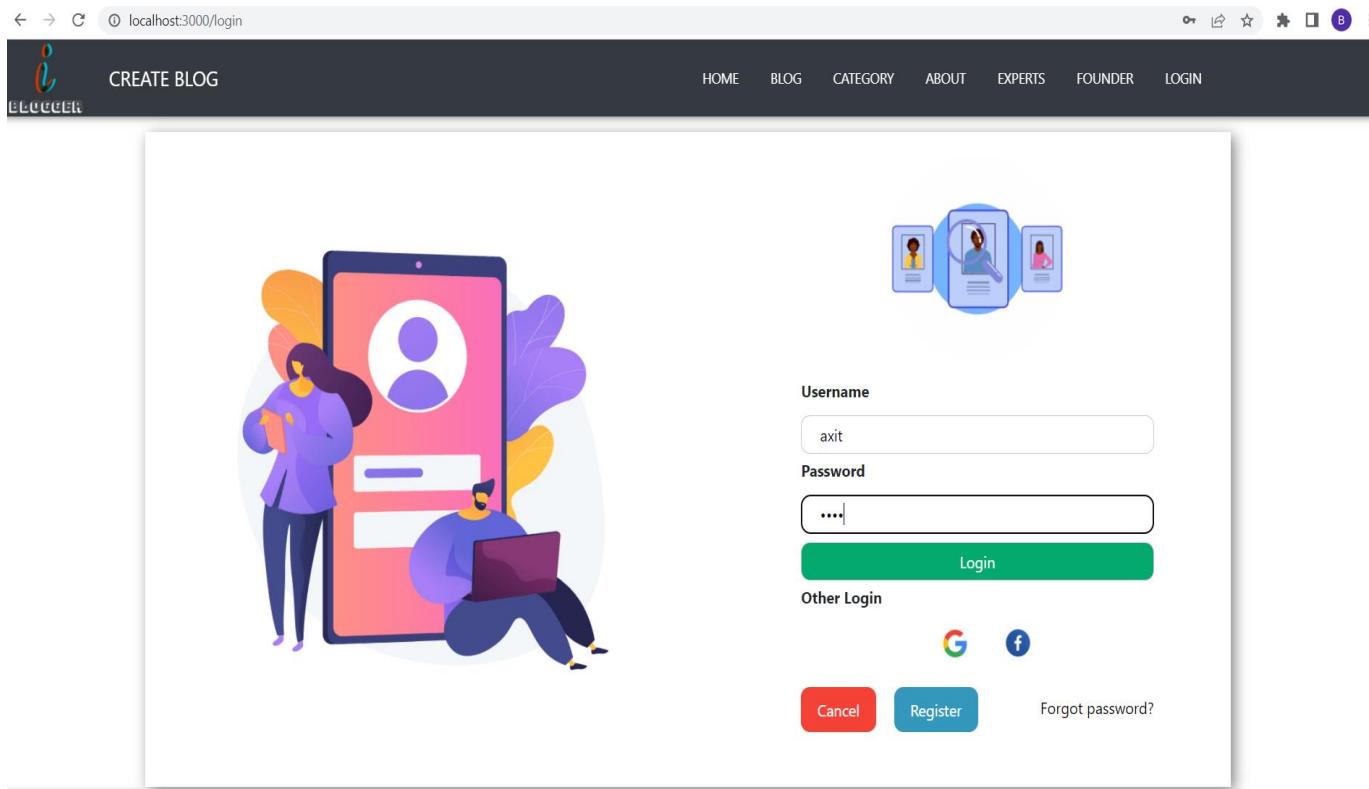
### ❖ Frontend ( Home Page ) :-





Company Name :- IBlogger.com | Email :- iblogger575@gmail.com

## ❖ Frontend ( Login Page ) :-



❖ Frontend ( Register Page ) :-

localhost:3000/register

**CREATE BLOG**

HOME BLOG CATEGORY ABOUT EXPERTS FOUNDER LOGIN

**Name**  
Rohan Dhanani

**Email**  
rohan@gamil.com

**Number**  
9510545623

**Gender**  
male

**Username**  
Rohan

**Password**  
.....

Remember me

**Register**

**Cancel**

+

❖ Frontend ( Send-Email-OTP Page ) :-

localhost:3000/forget#

**CREATE BLOG**

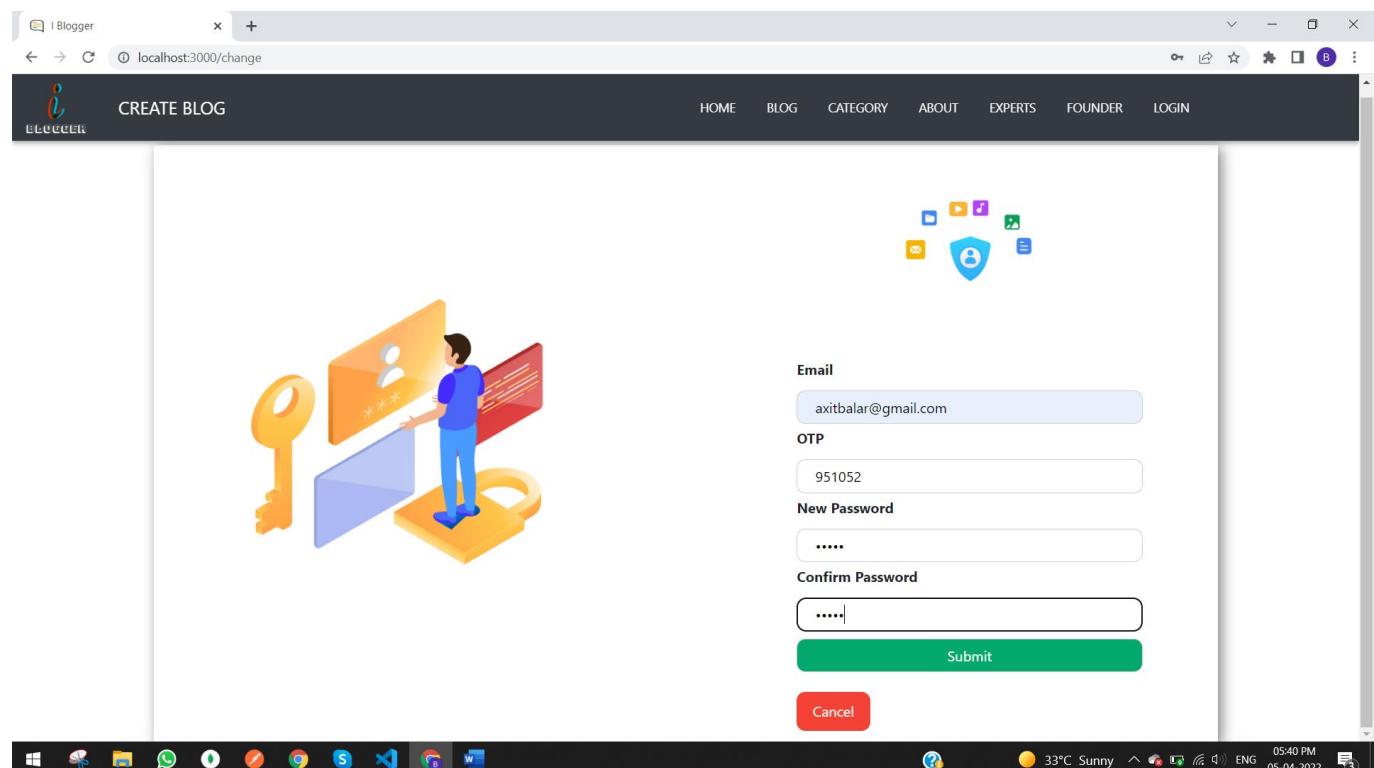
HOME BLOG CATEGORY ABOUT EXPERTS FOUNDER LOGIN

**Email**  
axitbalar@gmail.com

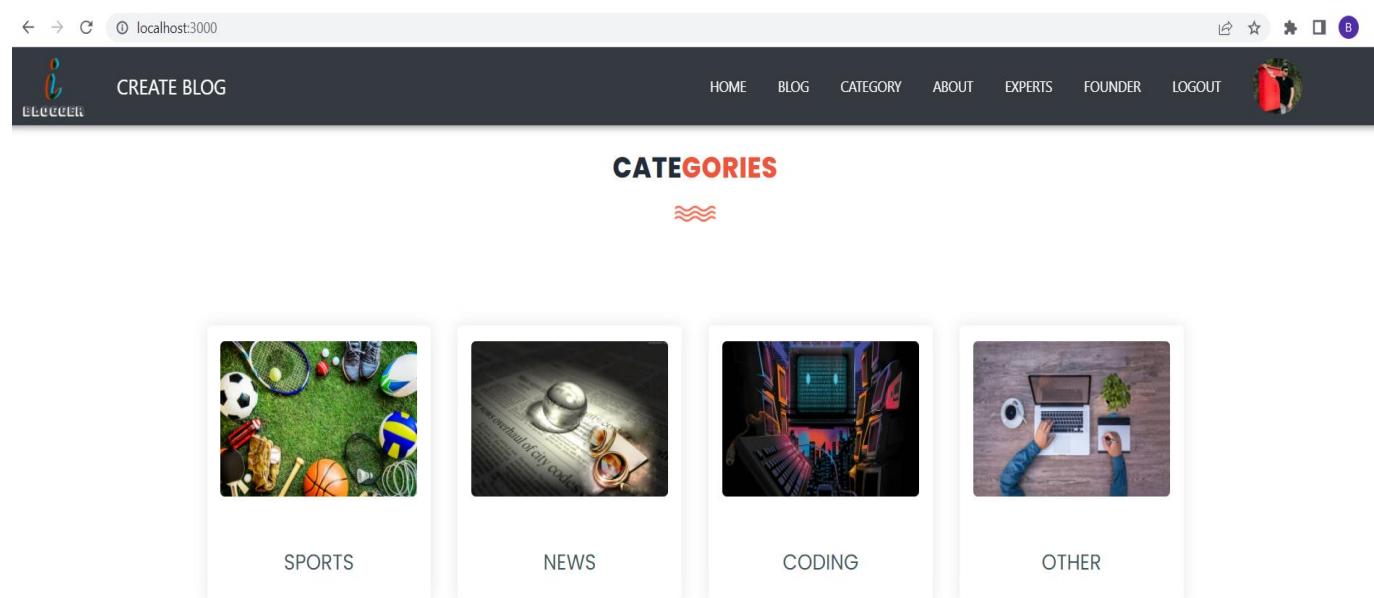
**Send Otp**

**Cancel**

❖ Frontend ( Forgot Password Page ) :-



❖ Frontend ( Blog-Category Page ) :-



## ❖ Frontend ( All-Blog Page ) :-

localhost:3000/blog#blog

**CREATE BLOG**

HOME BLOG CATEGORY ABOUT EXPERTS FOUNDER LOGOUT

**READ OUR ALL BLOG**

Ut consectetur, metus sit amet aliquet placerat, enim est ultricies ligula



### Search

Type to search...

### Recent posts

[Tools I wish I had known](#)

Jetal Savani | 2022/04/01 11:04:03

[Why you should learn C++](#)

Meet Bambhroliya | 2022/04/01 10:52:16

localhost:3000/blog#blog

**CREATE BLOG**

HOME BLOG CATEGORY ABOUT EXPERTS FOUNDER LOGOUT

[Why you should learn C++](#)

Meet Bambhroliya | 2022/04/01 10:52:16

This Is Your Brain. This Is Your Brain on Covid.

Meet Bambhroliya | 2022/04/01 10:50:48

The Uneven Landscape Of The Fantasy Sports Industry Is About To Be Reshaped

Shubham Balar | 2022/04/01 10:48:12

IPL 2022: Ranking all teams based on their strongest playing XIs

Shubham Balar | 2022/04/01 10:46:51

### Tools I wish I had known

Jetal Savani | 0 comments | verified | coding | Live Chat

Now that I am a self-proclaimed web developer, I practically live in my Chrome console. Below are some tools that allow me to spend less time there:

[CONTINUE READING](#)



### CATEGORIES

SPORTS

NEWS

CODING

OTHER

❖ Frontend ( About Page ) :-

❖ Frontend ( Experts Page ) :-

Company Name :- IBlogger.com | Email :- iblogger575@gmail.com

## ❖ Frontend ( Founder Page ) :-

The screenshot shows a web browser window with the URL [localhost:3000/admin#founder](http://localhost:3000/admin#founder). The page title is "I Blogger". The navigation bar includes links for HOME, BLOG, CATEGORY, ABOUT, EXPERTS, FOUNDER (which is highlighted in orange), and LOGOUT. There is also a user profile icon in the top right corner.

**Axit Balar**  
Founder  
Axit Balar  
Vestibulum id est eu felis vulputate hendrerit. Suspendisse dapibus turpis in dui pulvinar imperdierit. Nunc consectetur.  
[f](#) [t](#) [in](#)

**Neel Chodvadiya**  
Founder  
Neel Chodvadiya  
Vestibulum id est eu felis vulputate hendrerit. Suspendisse dapibus turpis in dui pulvinar imperdierit. Nunc consectetur.  
[f](#) [t](#) [in](#)

**Rohan Dhanani**  
Founder  
Rohan Dhanani  
Vestibulum id est eu felis vulputate hendrerit. Suspendisse dapibus turpis in dui pulvinar imperdierit. Nunc consectetur.  
[f](#) [t](#) [in](#)

The taskbar at the bottom shows various application icons and the system clock indicating 05:34 PM on 05-04-2022.

## ❖ Frontend ( Profile Page ) :-

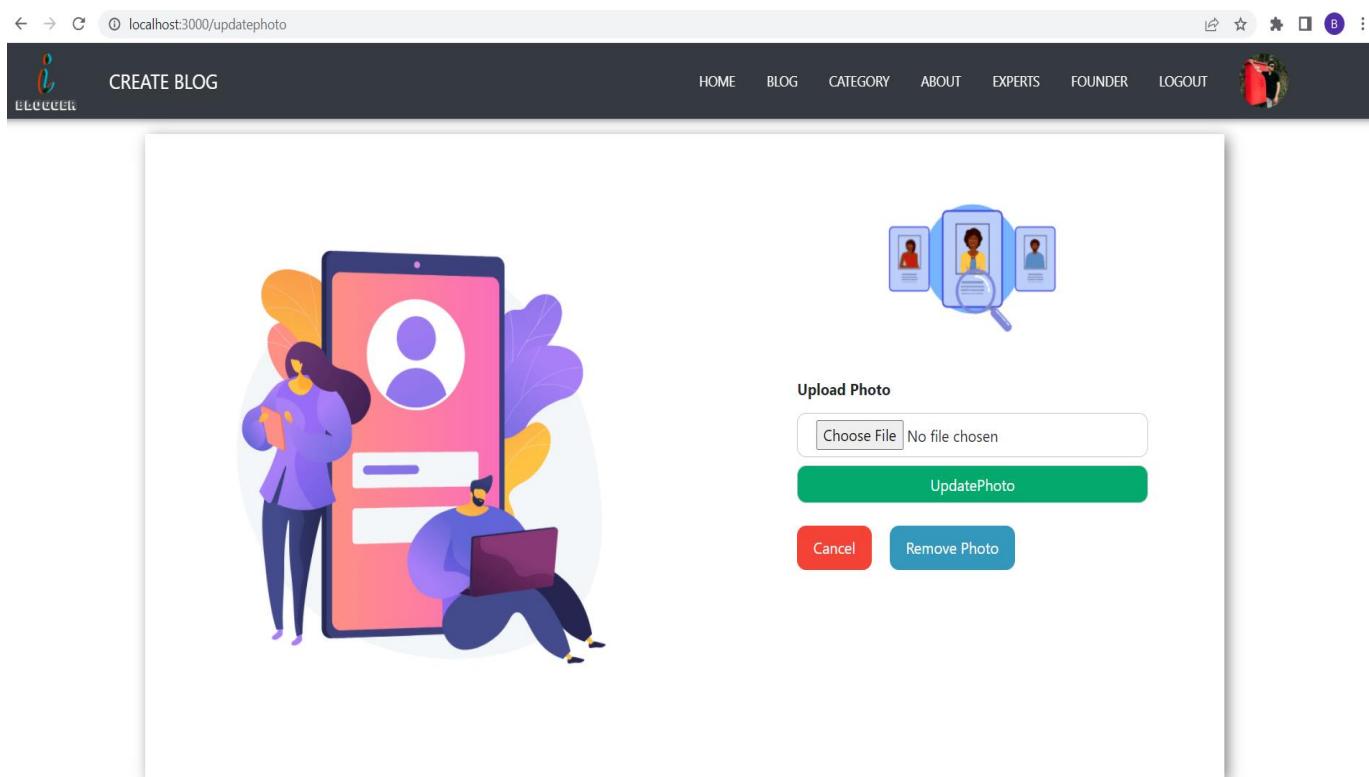
The screenshot shows a web browser window with the URL [localhost:3000/profile](http://localhost:3000/profile). The page title is "I Blogger". The navigation bar includes links for HOME, BLOG, CATEGORY, ABOUT, EXPERTS, FOUNDER, and LOGOUT. There is also a user profile icon in the top right corner.

**Axit balar**  
axitbalar@gmail.com

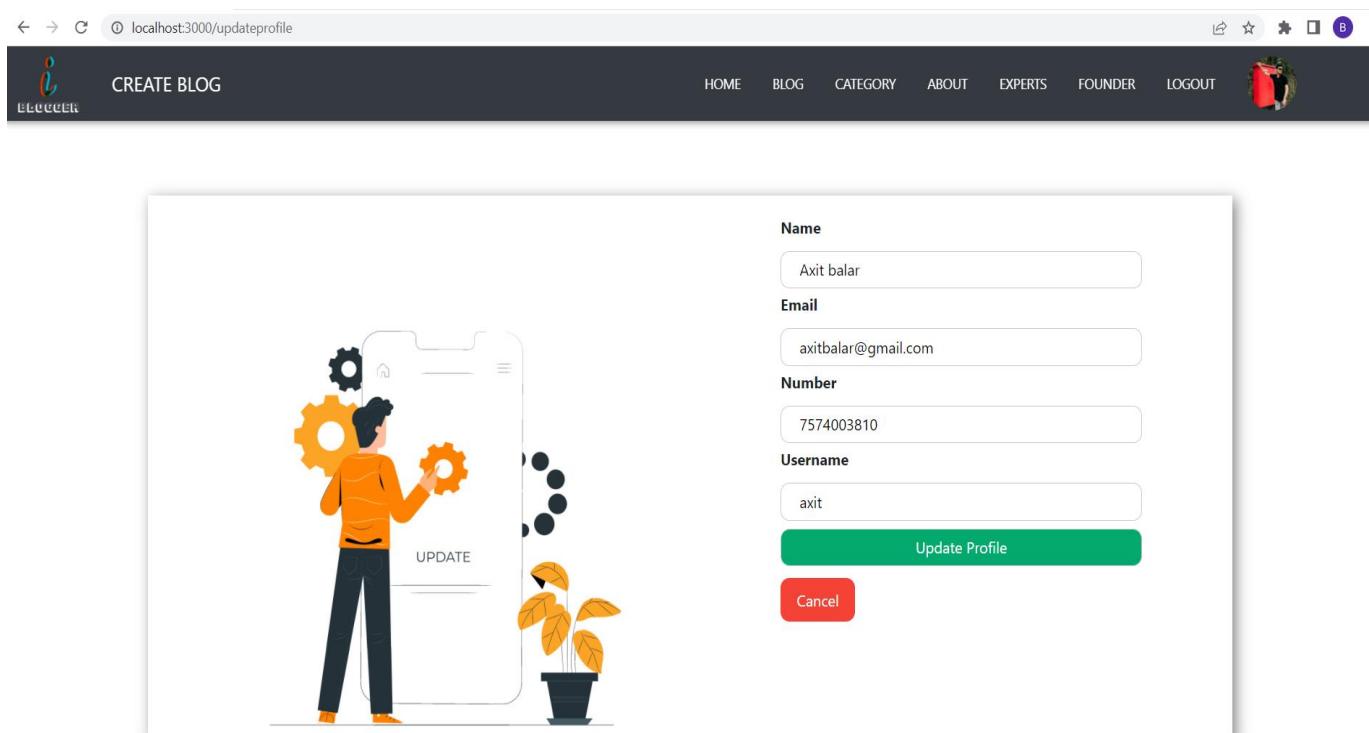
Profile picture: Axit balar standing next to a red trash bin in an office environment.

Activity stats:  
4 Blog + Create Blog 3 Comments Update Profile

❖ Frontend ( Edit-Profile-Photo Page ) :-



❖ Frontend ( Edit-Profile Page ) :-



## ❖ Frontend ( Create-Blog Page ) :-

The screenshot shows a 'CREATE BLOG' form. At the top, there's a navigation bar with links for HOME, BLOG, CATEGORY, ABOUT, EXPERTS, FOUNDER, and LOGOUT. A user profile icon is also present. The main form area has the following fields:

- Title:** An input field with placeholder text "Enter Your Title".
- Cover Image:** A file upload input field showing "Choose File No file chosen".
- Category:** A dropdown menu labeled "Select Category".
- Description:** A rich text editor toolbar with buttons for H1, H2, Heading 3, Sans Serif, Normal, B, I, U, S, " “ ” ”, etc. Below it is a text area with placeholder text "Write Something".
- Buttons:** Two buttons at the bottom left: a green "Publish" button and a red "Cancel" button.

## ❖ Frontend ( Comment Page ) :-

The screenshot shows a 'Blog Details' page for a specific blog post. The top navigation bar is identical to the 'Create Blog' page. The main content area has two sections:

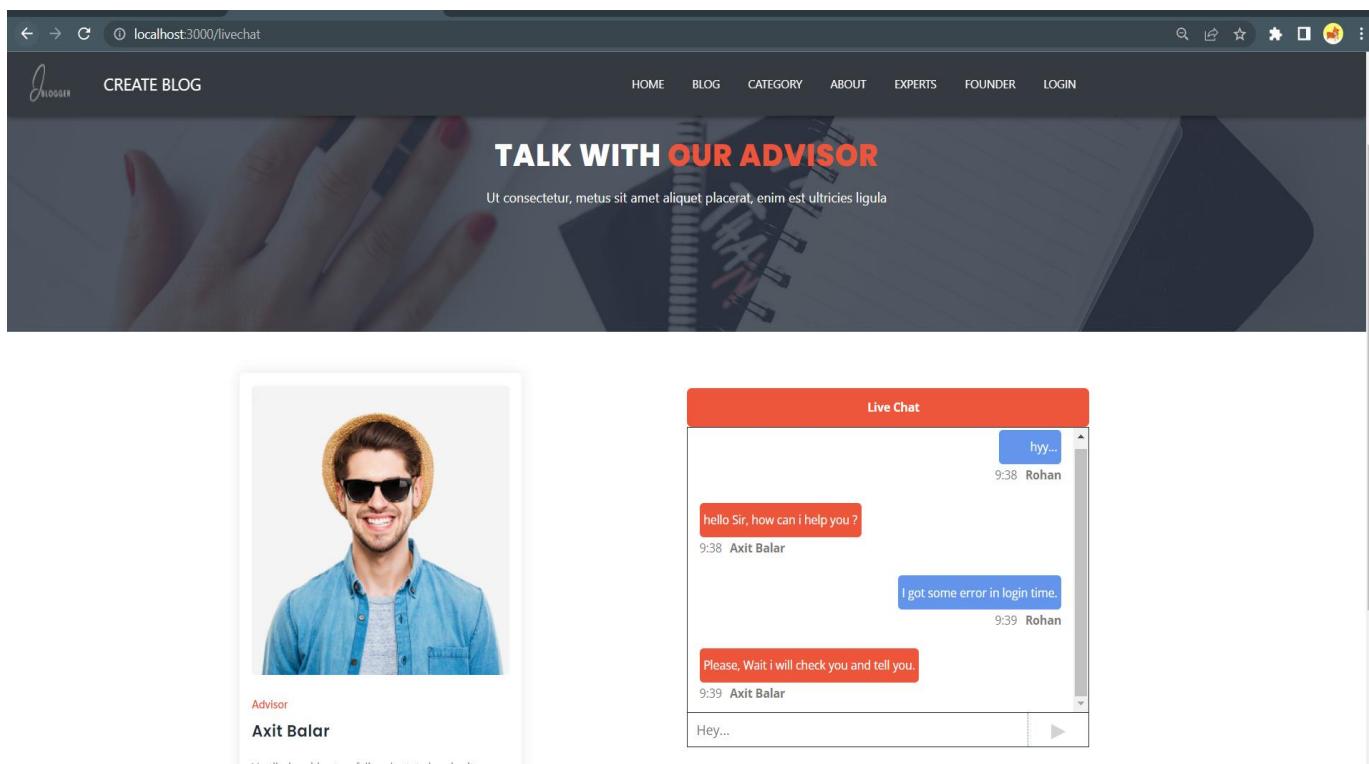
- Comments:** A list of comments from three users:
  - Neel Chodvadiya** | 2022/04/05 16:25:34  
After a few weeks, you receive your audio files from Amazon. Imagine your horror as you open the attachments and begin listening to the recordings
  - Rohan Dhanani** | 2022/04/05 16:24:52  
You may have assumed your Echo or Dot listened and responded using the small
  - Axit Balar** | 2022/04/05 16:24:20  
this is blog is awesome
- Leave a comment:** A form with fields for "Your Name\*" and "Message", and a red "SUBMIT" button.

## ❖ Frontend ( Live-Chat-With-Expert Page ) :-

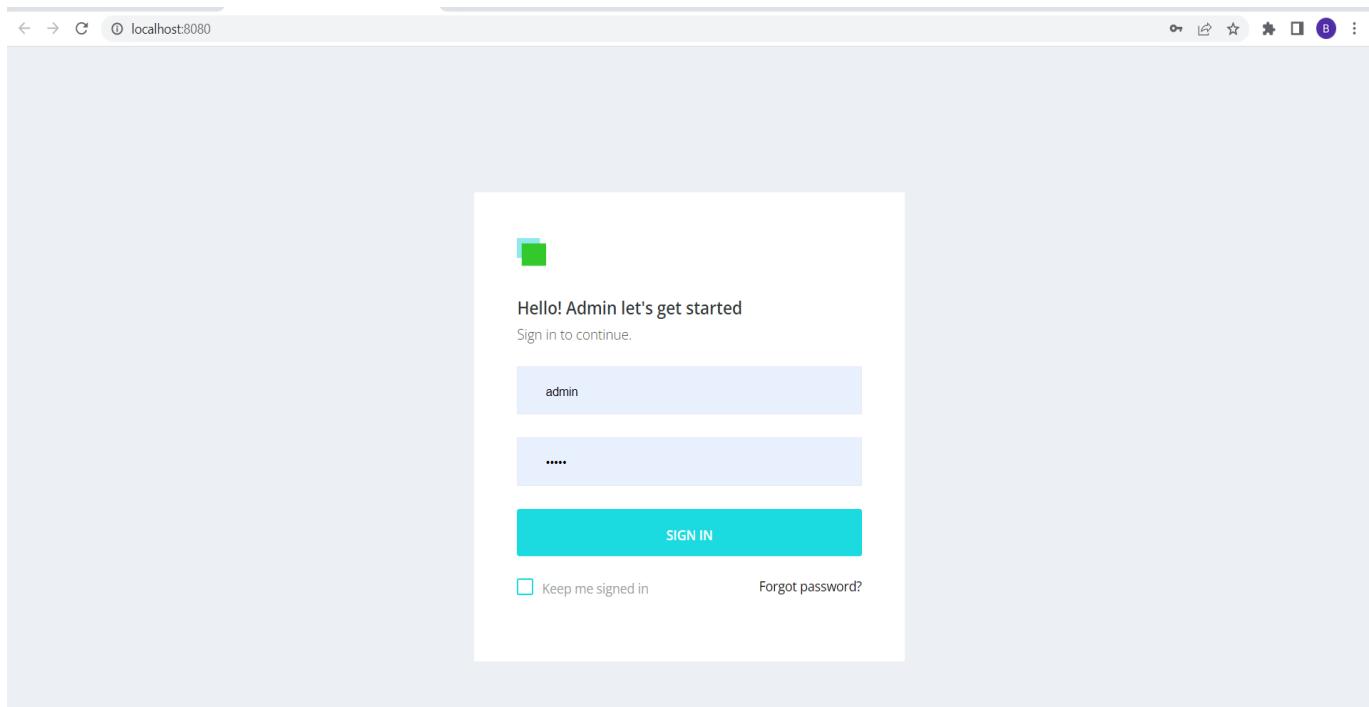
The screenshot shows a web browser window for 'localhost:3000/livechat'. At the top, there's a navigation bar with links for HOME, BLOG, CATEGORY, ABOUT, EXPERTS, FOUNDER, and LOGIN. Below the navigation, there's a large image of a man wearing a straw hat and sunglasses, identified as 'Advisor Axit Balar'. To the right of the image is a 'Join A Chat' form with fields for 'Name...' and 'Room ID...', and a red 'Join A Room' button.

The screenshot shows a web browser window for 'localhost:3000/livechat'. The top navigation bar is identical to the previous screenshot. Below it, there's a banner with the text 'TALK WITH OUR ADVISOR' and a subtext 'Ut consectetur, metus sit amet aliquet placerat, enim est ultricies ligula'. On the left, there's another profile picture of Axit Balar. On the right, a 'Live Chat' window is open, showing a conversation between 'Rohan' and 'Axit Balar'. The messages are:

- Rohan: 'hyy...' (9:38)
- Axit Balar: 'hello Sir, how can i help you ?' (9:38)
- Rohan: 'I got some error in login time.' (9:39)
- Axit Balar: 'Please, Wait i will check you and tell you.' (9:39)
- Rohan: 'Hey...' (9:39)



## ❖ Admin Panel ( Login Page ) :-



## ❖ Admin Panel ( Dashboard Page ) :-

localhost:8080/dashboard

Welcome To I Blogger Management dashboard!

**Total Blogs Chart**

Verified Blogs (Green), Unverified Blogs (Pink), Pending Blogs (Yellow)

Type	Count
Verified Blogs	20
Unverified Blogs	5
Pending Blogs	3

**Highest Blog Uploaded User Chart**

Blogs

User	Blogs
Axit balar	4.0
Vivek Dhaduk	2.0
Smit Goti	2.0
Heet Kalathiya	2.0
Neel Chodvadiya	2.0

**Quick Actions**

- Add User
- Create Blog

**Report Summary**

localhost:8080/dashboard

Welcome To I Blogger Management dashboard!

**Report Summary**

Category	Count	Status
USERS	11	
VERIFIED BLOGS	14	
UNVERIFIED BLOGS	3	
PENDING BLOGS	3	

**Recently Added User**

View all User

User ID	Name	Created at	Email Id	Mobile No	Status
ravi	Ravi Ribadiya	Fri Apr 01 2022 10:5...	ravi@gmail.com	9537294384	
meet	Meet Bambhroliya	Fri Apr 01 2022 10:4...	meet@gmail.com	9510542252	
rohan	Rohan Dhanani	Fri Apr 01 2022 09:3...	rohan@gamil.com	9510542252	
heet	Heet Kalathiya	Fri Apr 01 2022 09:2...	heet@gamil.com	7894561230	
neel	Neel Chodvadiya	Fri Apr 01 2022 09:1...	cneel111@gmail.com	9537294384	

localhost:8080/dashboard

I Blogger Management

Welcome To I Blogger Management dashboard!

Admin

### Highest Blog Uploaded User

User ID	Name	Email Id	Mobile NO	Total Blogs
axit	Axit balar	axitbalar@gmail.com	7574003810	4
neel	Neel Chodvadiya	cneel111@gmail.com	9537294384	2
shubham	Shubham Balar	shubham@gmail.com	9727802045	2
heet	Heet Kalathiya	heet@gamil.com	7894561230	2
meet	Meet Bambhroliya	meet@gmail.com	9510542252	2
vivek	Vivek Dhaduk	dhaduk1000vivek@gmail.com	9727802045	2
smit	Smit Goti	smit@gmail.com	9727802045	2
yash	Yash Dhanani	yash@gmail.com	9537294384	1

[View all User](#)

## ❖ Admin Panel ( Approve Page ) :-

localhost:8080/unverify

I Blogger Management

Welcome To I Blogger Management dashboard!

Admin

Administrator

- Dashboard
- Approve Blog
- All blogs
- Blogs Categories
- Top 10 Blog
- Users Table
- Contact Us

### All Pending Blogs

No	Name	Blog Title	Image	Category	Description	Status	Actions
0	Axit balar	NRR will go down because of a los...		sport	On 1st Nov 2020, at noon, th...	Pending	
1	Axit balar	What Makes a Country Good at Fo...		sport	On a sunny Saturday afterno...	Pending	
2	Axit balar	All the fundamental React.js conc...		coding	React is defined as a JavaScri...	Pending	

Show: 10 entries

Search:

Showing 1 to 3 of 3 entries

First Last

### All Unverified Blogs

Welcome To I Blogger Management dashboard!

All Unverified Blogs

No	Name	Blog Title	Image	Category	Description	Status	Actions
0	Axit balar			news	rohan	Unverified	
1	Ravi Ribadiya	Programming Languages to Avo...		coding	<b>Things I didn't</b>	Unverified	
2	Smit Goti	EWS students not able to take o...		other	The Coronavirus Pandemic is	Unverified	

Showing 1 to 3 of 3 entries

First 1 Last

All Verified Blogs

No	Name	Blog Title	Image	Category	Description	Status	Actions
0	Jetal Savani	Tools I wish I had known		coding	Now that I am a self-proclaim	Verified	
1	Meet Bambholiya	Why you should learn C++		coding	<b>It can be challenging to ch</b>	Verified	
2	Meet Bambholiya	This is Your Brain. This is Your B...		news	In about 30 seconds, you're g	Verified	
3	Shubham Balar	The Uneven Landscape Of The F...		sport	The fantasy sports industry i:	Verified	
4	Shubham Balar	IPL 2022: Ranking all teams bas...		sport	The participating teams have	Verified	
5	Yash Dhanani	"Alexa, play some music" isn't th...		other	Amazon's voice recognition s	Verified	
6	Smit Goti	Are You "Dhonified" Performer ...		other	M.S. Dhoni doesn't need any	Verified	

Welcome To I Blogger Management dashboard!

All Verified Blogs

No	Name	Blog Title	Image	Category	Description	Status	Actions
0	Jetal Savani	Tools I wish I had known		coding	Now that I am a self-proclaim	Verified	
1	Meet Bambholiya	Why you should learn C++		coding	<b>It can be challenging to ch</b>	Verified	
2	Meet Bambholiya	This is Your Brain. This is Your B...		news	In about 30 seconds, you're g	Verified	
3	Shubham Balar	The Uneven Landscape Of The F...		sport	The fantasy sports industry i:	Verified	
4	Shubham Balar	IPL 2022: Ranking all teams bas...		sport	The participating teams have	Verified	
5	Yash Dhanani	"Alexa, play some music" isn't th...		other	Amazon's voice recognition s	Verified	
6	Smit Goti	Are You "Dhonified" Performer ...		other	M.S. Dhoni doesn't need any	Verified	

## ❖ Admin Panel ( All-Blogs Page ) :-

localhost:8080/viewVerifyBlog

Welcome To I Blogger Management dashboard!

All Users Blogs

[Insert Blog](#)

New

New

**Tools I wish I had known**  
Now that I am a self-proclaimed web developer, I practically live in my Chrome console. Below are some tools that allow me to spend less time there:

**Why you should learn C++**  
It can be challenging to choose which programming language you should learn in 2021. There are hundreds of great programming languages out there. Out of those, choosing which one you should learn is

## ❖ Admin Panel ( All-Users Page ) :-

localhost:8080/viewUser

Welcome To I Blogger Management dashboard!

All Users Data Table

[Insert User](#)

Show: 10 entries

Search:

No	Name	Username	Email	Mobile No	Profile	Actions
0	Ravi Ribadiya	ravi	ravi@gmail.com	9537294384		<a href="#"></a> <a href="#"></a>
1	Meet Bambholiya	meet	meet@gmail.com	9510542252		<a href="#"></a> <a href="#"></a>
2	Rohan Dhanani	rohan	rohan@gamil.com	9510542252		<a href="#"></a> <a href="#"></a>
3	Heet Kalathiya	heet	heet@gamil.com	7894561230		<a href="#"></a> <a href="#"></a>
4	Neel Chodvadiya	neel	cneel111@gmail.com	9537294384		<a href="#"></a> <a href="#"></a>
5	Axit balar	axit	axitbalar@gmail.com	7574003810		<a href="#"></a> <a href="#"></a>

## ❖ Admin Panel ( Contact-Us Page ) :-

Welcome To I Blogger Management dashboard!

Experts Context Table

No	Name	Email	Subject	Message	Actions
0	Neel Chodvadiya	cneel111@gmail.com	Editor	I am not able to attach zip file dur...	
1	axit	axitbalar@gmail.com	blog page	Your Blog Page Is Very Beautiful. T...	
2	Rohan Dhanani	rohandhanani57@gmail.com	error	I got some error on login time	

Showing 1 to 3 of 3 entries

## ❖ Admin Panel ( Create Blog Page ) :-

Welcome To I Blogger Management dashboard!

Create Your Blog

Blog Title

Cover Image

Category

Description

Paragraph | **B** *I*

Write Your Blog

**Publish** **Clear All**

❖ [Admin Panel \( User-Register Page \) :-](#)

User Register

Name	Rohan Dhanani
UserName	rohan
Email Id	rohan@gamil.com
Mobile No	7574003810
Password	.....

**Register**

❖ [Admin Panel \( Edit-User-Profile Page \) :-](#)

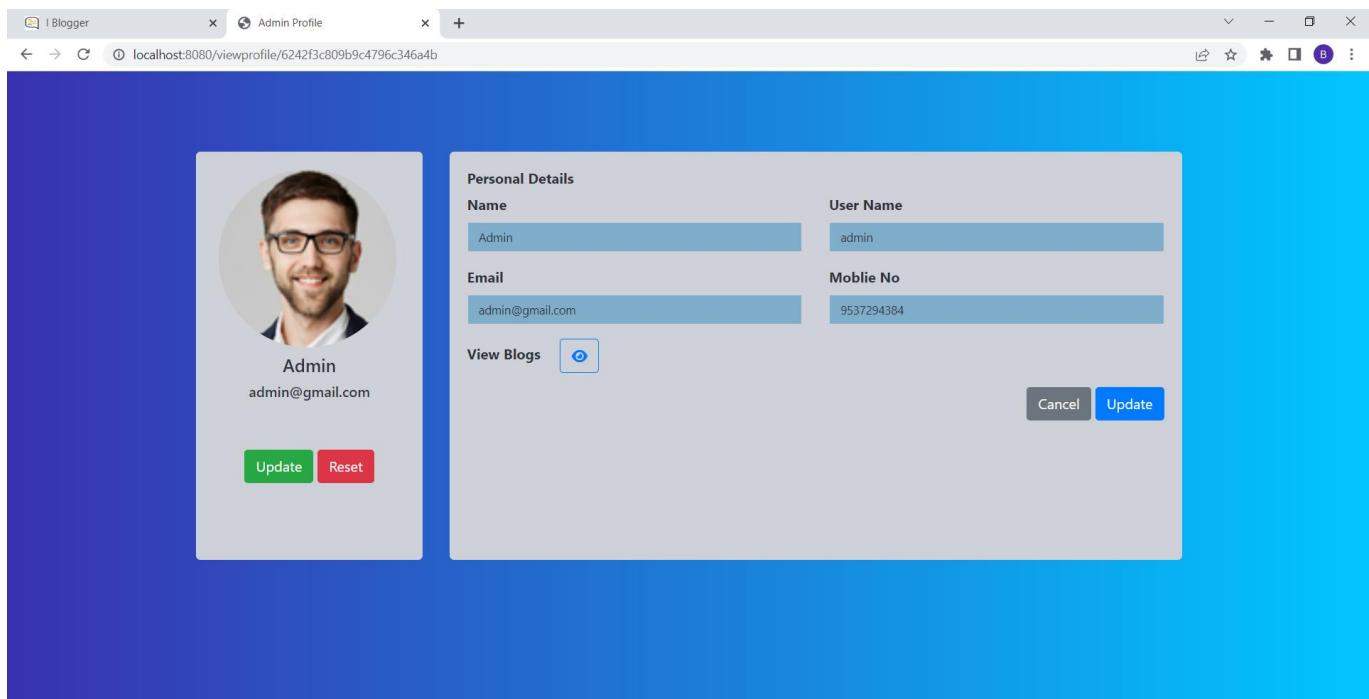
**Personal Details**

Name	User Name
Ravi Ribadiya	ravi
Email	Moblie No
ravi@gmail.com	9537294384

**View Blogs**

**Update** **Cancel** **Update**

## ❖ Admin Panel ( Edit-Admin-Profile Page ) :-



## 7. Software Testing

✓ Software Testing

## Software Testing :-

- Software testing is a critical element of software quality assurance and represents the ultimate review of specification design and coding. Testing is an exposure of a system to trial input to see whether software meets correct output. Testing cannot be determined whether software meets user's needs, only whether it appears to confirm to requirements. Testing can show that a system is free of errors, only that it contains error. Testing finds errors, it does not correct errors. Software success is a quality product, on time and within cost. Through testing can reveal critical mistakes. Testing should therefore,
- Validate Performance.
  - Detects errors.
  - Identify.
  - Inconsistencies.



### ❖ Test Objective :

- There Is Strong Evidence That Effective Requirement Management Leads to Overall Project Cost Savings. The Three Primary Reasons For This Are:
  - Errors in requirement typically cost over 10 times more to repair than other errors.
  - Requirement errors typically comprise over 40% of all error in a software project.
- The Testing Procedure Should Care For All Of These, As Well As, In Order To Attain A Flawless, Error-Free And Efficient Functioning System; Too, Software Testing Is An Important Phase Of Any Software Development Life Cycle. Various Reports and Data Used For The Same Are The Core Of The System. The Testing, Therefore, Becomes Important In Order To Maintain The Cost As Well As Improve Performance And Consistency. The Testing Procedure For The System Has Been Divided In To Various Parts Ranging For Single Unit Testing To Entire System Testing.

### ❖ Testing Principles:

- All test should be traceable to customer requirements.
- Tests should be planned long before testing begins.
- The pareto principle applies to software testing.
- Testing should begin “in the small” and progress toward testing “in the large”.
- Exhaustive testing is not possible.

### ❖ Unit Testing:

- Unit Testing is a level of software *testing* where individual units/ components of a software are tested. The purpose is to validate that each *unit* of the software performs as designed. A *unit* is the smallest

testable part of software. It usually has one or a few inputs and usually a single output.

#### ❖ **Integration Testing:**

- **Integration Testing** is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units. Test drivers and test stubs are used to assist in Integration Testing.

#### ❖ **Top-down integration:**

- Top-down integration testing is an integration testing technique used in order to simulate the behavior of the lower-level modules that are not yet integrated. Stubs are the modules that act as temporary replacement for a called module and give the same output as that of the actual product.

#### ❖ **Bottom-down integration:**

- Bottom-up testing is a specific type of integration testing that tests the lowest components of a code base first. More generally, it refers to a middle phase in software testing that involves taking integrated code units and testing them together, before testing an entire system or code base.

#### ❖ **Validation Testing :**

- The process of evaluating software during the development process or at the end of the development process to determine whether it satisfies specified business requirements.
- Validation Testing ensures that the product actually meets the client's needs. It can also be defined as to demonstrate that the product fulfills its intended use when deployed on appropriate environment.

### ❖ System Testing:

- System testing of software or hardware is testing conducted on a complete, integrated system to evaluate the system's compliance with its specified requirements. System testing falls within the scope of black-box testing, and as such, should require no knowledge of the inner design of the code or logic.

### ❖ Recovery Testing :

- Recovery testing is a type of non-functional testing technique performed in order to determine how quickly the system can recover after it has gone through system crash or hardware failure. Recovery testing is the forced failure of the software to verify if the recovery is successful.

### ❖ Security Testing :

- Security testing is a process intended to reveal flaws in the security mechanisms of an information system that protect data and maintain functionality as intended.

### ❖ Stress Testing :

- Stress testing a Non-Functional testing technique that is performed as part of performance testing. During stress testing, the system is monitored after subjecting the system to overload to ensure that the system can sustain the stress.

### ❖ Sanity Testing :

- Sanity testing is the subset of regression testing and it is performed when we do not have enough time for doing testing. Sanity testing is the surface level testing where QA engineer verifies that all the menus,

functions, commands available in the product and project are working fine.

### ❖ White Box Testing :

- White-box testing (also known as clear box testing, glass box testing, transparent box testing, and structural testing) is a method of testing software that tests internal structures or workings of an application, as opposed to its functionality (i.e. black-box testing).
- In white-box testing an internal perspective of the system, as well as programming skills, are used to design test cases.
- The tester chooses inputs to exercise paths through the code and determine the expected outputs.
- This is analogous to testing nodes in a circuit, e.g. in-circuit testing (ICT). White-box testing can be applied at the unit, integration and system levels of the software testing process.
- Although traditional testers tended to think of white-box testing as being done at the unit level, it is used for integration and system testing more frequently today.
- It can test paths within a unit, paths between units during integration, and between subsystems during a system-level test.
- Though this method of test design can uncover many errors or problems, it has the potential to miss unimplemented parts of the specification or missing requirements.

 **Test Cases :-**
**Module 1: Admin**
**❖ Admin Login**

Test field	Test Data	Valid/Invalid	Test Result
<b>User Name</b>	Empty	Invalid	Please enter your User Name
	Adminnn	Invalid	Invalid UserName or password
	admin	Valid	
<b>Password</b>	Empty	Invalid	Please enter Password
	123	Invalid	Invalid Username or password
	admin	Valid	
<b>Login</b>	Empty	Invalid	Please Enter Username and password
	Adminnn 12345	Invalid	Invalid Username or password
	admin admin	Valid	Login Successfully.

## ❖Admin Add New User

Test field	Test Data	Valid/Invalid	Test Result
<b>Name</b>	Empty	Invalid	Please enter valid name
	123pa	Invalid	Accept only character
	Yash	Valid	
<b>Email</b>	Empty	Invalid	Please enter email address
	Yash parmar	Invalid	Please enter valid email address
	<a href="mailto:yashparmar166@gmail.com">yashparmar166@gmail.com</a>	Valid	
<b>Mobile Number</b>	95372943	Invalid	Please enter 10 digit mobile number
	95372ppppp	Invalid	Please enter 10 digit mobile number
	9537294384	valid	
<b>Gender</b>	Empty	Invalid	Please select gender
	Male	Valid	
	Female	Valid	
<b>User name</b>	Empty	Invalid	Please enter User name
	yash	Valid	
<b>Password</b>	Empty	Invalid	Please enter Password
	Yash123	Valid	

## ❖Update profile

Test field	Test Data	Valid/Invalid	Test Result
<b>Name</b>	Empty	Invalid	Please enter valid name
	123maulik	Invalid	Please enter valid name
	Maulik	Valid	
<b>Email</b>	Empty	Invalid	Please enter email address
	Maulik	Invalid	Please enter proper email address
	<a href="mailto:maulikpadhdal@gmail.com">maulikpadhdal@gmail.com</a>	Valid	
<b>Mobile no</b>	Empty	Invalid	Please enter mobile number
	Abcd	Invalid	Please enter valid mobile number
	9512255044	Valid	
<b>User name</b>	Empty	Invalid	Please enter User name
	yash	Valid	
<b>Profile Image</b>	Empty	Invalid	Please select Image
	Image	valid	Updated

## Module 2 : User

### ❖User Login

Test field	Test Data	Valid/Invalid	Test Result
<b>User Name</b>	Empty	Invalid	Please enter your User Name
	Axit123	Invalid	Invalid UserName or password
	Axit	Valid	
<b>Password</b>	Empty	Invalid	Please enter Password
	123	Invalid	Invalid email address or password
	Axit123	Valid	
<b>Login</b>	Empty	Invalid	Please Enter Username and password
	Axit 12345	Invalid	Invalid Username or password
	Axit Axit123	Valid	Login Successfully.

## ❖ Register New User

Test field	Test Data	Valid/Invalid	Test Result
<b>Name</b>	Empty	Invalid	Please enter valid name
	123pa	Invalid	Accept only character
	Yash	Valid	
<b>Email</b>	Empty	Invalid	Please enter email Address
	Yash parmar	Invalid	Please enter valid email address
	<a href="mailto:yashparmar166@gmail.com">yashparmar166@gmail.com</a>	Valid	
<b>Mobile Number</b>	95372943	Invalid	Please enter 10 digit mobile number
	95372ppppp	Invalid	Please enter 10 digit mobile number
	9537294384	valid	
<b>Gender</b>	Empty	Invalid	Please select gender
	Male	Valid	
	Female	Valid	
<b>User name</b>	Empty	Invalid	Please enter User name
	yash	Valid	
<b>Password</b>	Empty	Invalid	Please enter Password
	Yash123@.	Valid	

## ❖ Update profile

Test field	Test Data	Valid/Invalid	Test Result
<b>Name</b>	Empty	Invalid	Please enter valid name
	123maulik	Invalid	Please enter valid name
	Maulik	Valid	
<b>Email</b>	Empty	Invalid	Please enter email address
	Maulik	Invalid	Please enter proper email address
	<a href="mailto:maulikpadhdal@gmail.com">maulikpadhdal@gmail.com</a>	Valid	
<b>Mobile no</b>	Empty	Invalid	Please enter mobile number
	Abcd	Invalid	Please enter valid mobile number
	9512255044	Valid	
<b>User name</b>	Empty	Invalid	Please enter User name
	Yash	Valid	
<b>Profile Image</b>	Empty	Invalid	Please select Image
	Image	valid	Updated

## ❖ Send Otp

Test field	Test Data	Valid/Invalid	Test Result
<b>Email</b>	Empty	Invalid	Please enter email address
	Maulik	Invalid	Please enter proper email address
	<a href="mailto:maulikpadhdal@gmail.com">maulikpadhdal@gmail.com</a>	Valid	Same As Database Record
<b>Otp</b>		valid	Otp send successfully

## ❖ Forget Password

Test field	Test Data	Valid/Invalid	Test Result
<b>Email</b>	Empty	Invalid	Please enter email address
	Maulik	Invalid	Please enter proper email address
	<a href="mailto:maulikpadhdal@gmail.com">maulikpadhdal@gmail.com</a>	Valid	Same As Database Record
<b>Otp</b>	Empty	Invalid	Please Enter Otp
	115739	Invalid	Please enter Valid otp
	999999	Valid	Otp Match
<b>Password</b>	Empty	Invalid	Please enter Password
	Yash123	Valid	
<b>Confirm Password</b>	Empty	Invalid	Please enter Confirm Password
	120	Invalid	Password and confirm Password are not same
	Yash123	Valid	Password updated

## ❖Create Blog

Test field	Test Data	Valid/Invalid	Test Result
<b>Title</b>	Empty	Invalid	Please enter title
	Blog Title	Valid	
<b>Image</b>	Empty	Invalid	Please select image
	Image selected	Valid	
<b>category</b>	Empty	Invalid	Please select category
	News	Valid	
	Sport	Valid	
	Coding	Valid	
<b>Description</b>	Other	Valid	
	Empty	Invalid	Please enter description
	Description	valid	



## 8. Limitations and future Scope of Enhancements, References

## Limitations of the system :-

- Since, every system has some limitations so our proposed system is also not untouchable in this regard.
- The main limitations of our system are:
  - Excel export has not been developed for the blogs.
  - User cannot update blog image once it uploaded.
  - User can not share blogs in social media.
  - User cannot chat (blog user - user).

## Future scope of enhancements :-

- The social networking site have a wide range to change as per time requirement. That the reason behind that not a particular project is ever considered as complete, because what the demand of the user and thinking always change day by day.
- Always do more than what have.
- Some of the enhance which we have thought are:
  - We can give more advance software for online blogging system including more facilities.
  - We will host the platform on online server to make it accessible worldwide.
  - Integrate multiple load balancer to distribute the load of the server.
  - Implement the backup mechanism for taking backup of code base and database on regular basis on different servers.
  - Create a master and slave database structure to reduce the overload of the database queries.
  - User can create his own business page for advertisement.
  - Payment of the advertisement in online mode.
  - Development of mobile application which can run on multiple OS and devices.

- We can also add a quiz feature and winners will get some educational assistance or any other reward.



## References :-

- <https://stackoverflow.com/>
- <https://dev.to/>
- <https://medium.com/>
- <https://www.blogger.com/about/?bpli=1>
- <https://stackoverflow.blog/>