

Project Report On

**BlogApp**

Developed By

**Harikrishnasinh Zala & Kuldipsinh Jadeja**

Submitted To



Geetanjali College of Computer Science and Commerce (BBA)  
Saurashtra University Rajkot  
2023-2024

**Project Guide**

Prof. Jigisha Ganatra

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## **Acknowledgment**

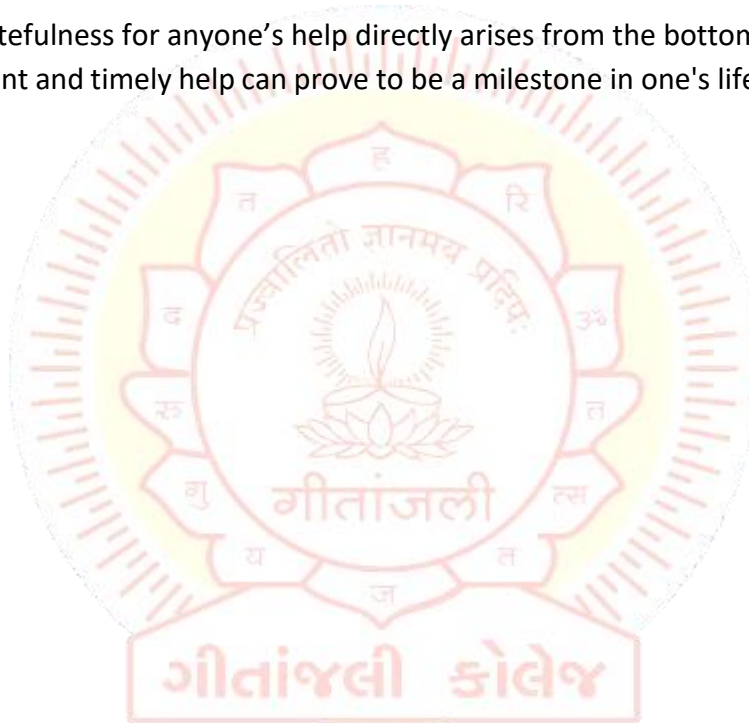
I am happy to submit my idea for the "BlogApplication" Application to Saurashtra University, Rajkot for a BCA degree in the computer branch.

I am grateful to Prof. Brijesh Shah Head of the Department and all the faculty members of the Department of Computer Science for their kind support throughout this journey.

I take the privilege to acknowledge the elite authors of numerous books and papers and blogs we have referred to during this progress.

I also say a big thank you to my parents for such support and without them, I can do nothing, not in just projects but also in life. Thankful to my family for their support.

The feeling of gratefulness for anyone's help directly arises from the bottom of my heart. A small but important and timely help can prove to be a milestone in one's life.



## **Preface**

In 21st Century of Technology, Computer and related service is the most useful, automatic and highly speed of work. B.C.A is course in which practical aspect is important as theoretical aspect. In the present world importance of education is increasing.

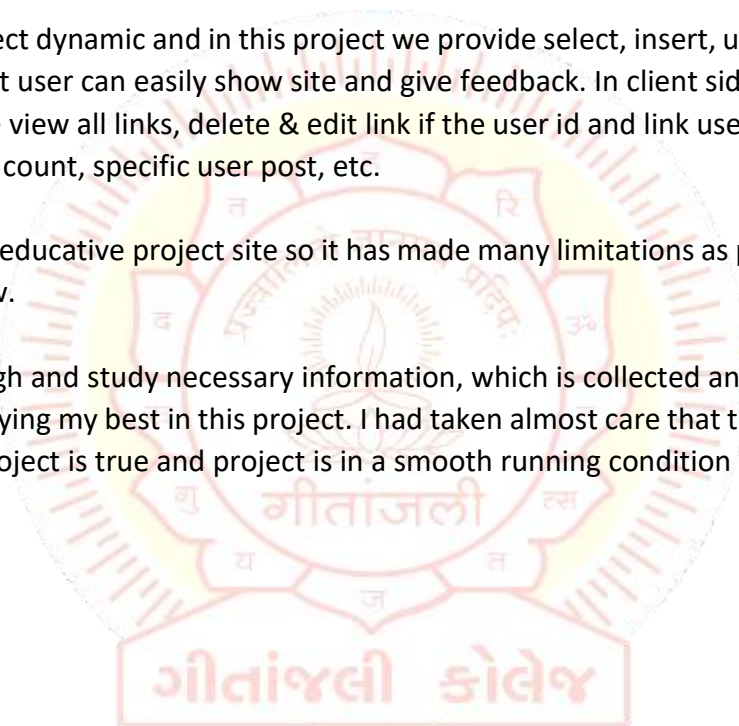
The project training in a student's life is like a live experience in the industry. If we have experience then & then we get top of the level. Most Important Factor of B.C.A Course is Project Work.

The Project Work is Must for Every Student in Different Government or Private Organization during the Study Period. We are developing project in 5th Semester of B.C.A we are the student of Geetanjali Group of Colleges Is Affiliated with Saurashtra University, Rajkot.

I created this project dynamic and in this project we provide select, insert, update and delete operation on client user can easily show site and give feedback. In client side there is so many features like view all links, delete & edit link if the user id and link user id is same, user profile, user posts count, specific user post, etc.

As this is fully and educative project site so it has made many limitations as per the fully furnished site view.

I have gone through and study necessary information, which is collected and presented in this report. I am trying my best in this project. I had taken almost care that the information provided in the project is true and project is in a smooth running condition and error free.



## Project Profile

**Project Title** : BlogApp

**Development Software** : VS Code

**Front End** : ReactJs ,Tailwind Css , Flowbite-React

**Backend** : NodeJs, Express, MongoDB

**Year** : 2023-24

**Project Guide** : Jigisha Ganatra

**Submitted By** : Harikrishnasinh Zala & Kuldipsinh Jadeja

**Documentation Tool** : Microsoft Word

**Operating System** : Windows 11



### Project Requirements

<b>Processor</b>	x86-64 processor (64-bit with Intel core 2 duo, Core i3, Core i5, Core i7, or Xeon processor)
<b>Ram</b>	Minimum 2GB Ram
<b>Operating System</b>	Any
<b>Graphics Card</b>	You Don't Need Graphic Card
<b>Database</b>	MongoDb Database
<b>Language</b>	ExpressJs , ReactJs, NodeJs (MERN)

ગોતાજલા કોલેજ

## **Software Development Life Cycle (SDLC)**

### **Software Development Life Cycle Steps:**

Certainly, here's the updated Software Development Life Cycle (SDLC) tailored for a MERN (MongoDB, Express.js, React.js, Node.js) application:

#### **1. Requirement Gathering and Analysis:**

This phase involves gathering and analyzing requirements for the MERN application. Stakeholders' needs, business objectives, and user expectations are identified and documented to guide the development process.

#### **2. Feasibility Study:**

A feasibility study is conducted to assess the viability of developing the MERN application. Factors such as technical feasibility, market demand, resource availability, and budget constraints are evaluated to determine if the project is feasible.

#### **3. System Architecture Design:**

In this phase, the overall architecture of the MERN application is designed. This includes defining the database structure using MongoDB, planning the server architecture with Express.js and Node.js, and designing the user interface using React.js. The interaction between these components is also outlined.

#### **4. Prototype Development:**

A prototype of the MERN application is developed to provide stakeholders with a visual representation of its functionality and user interface. This prototype helps gather feedback for refinement before full-scale development begins.

### **5. Code Implementation:**

Developers write code for the MERN application based on the design specifications. This involves implementing server-side logic using Node.js and Express.js, creating dynamic user interfaces with React.js, and integrating them with the MongoDB database.

### **6. Testing and Quality Assurance:**

The MERN application undergoes comprehensive testing to ensure its quality, reliability, and performance. Various testing techniques, such as unit testing, integration testing, and end-to-end testing, are employed to identify and rectify any defects or inconsistencies.

### **7. Deployment:**

Once the MERN application passes testing, it is deployed to a production environment where it is made accessible to users. Deployment involves setting up servers, configuring databases, and ensuring all dependencies are met for smooth operation.

### **8. Maintenance and Support:**

The maintenance phase involves ongoing support and enhancement of the MERN application post-deployment. This includes addressing bug fixes, applying updates, optimizing performance, and incorporating new features to meet evolving user needs.

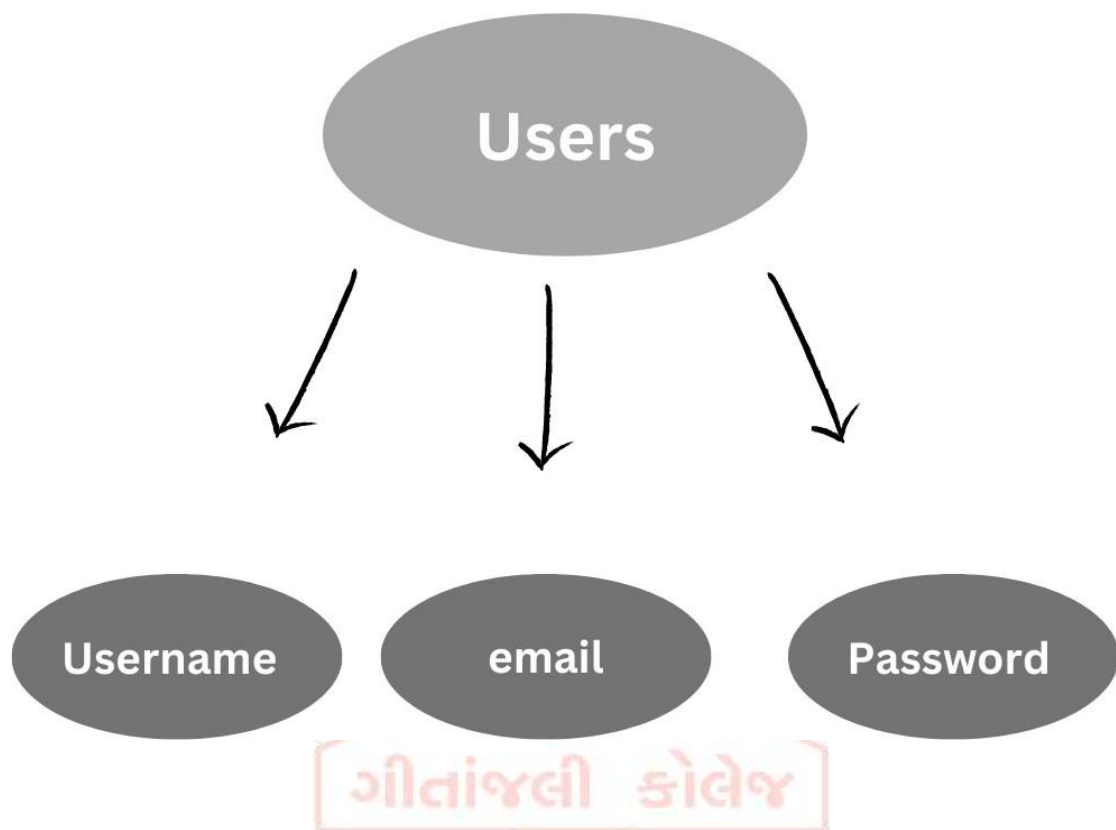
By following this SDLC tailored for MERN application development, you can ensure a systematic and structured approach to delivering high-quality software that meets stakeholder requirements.



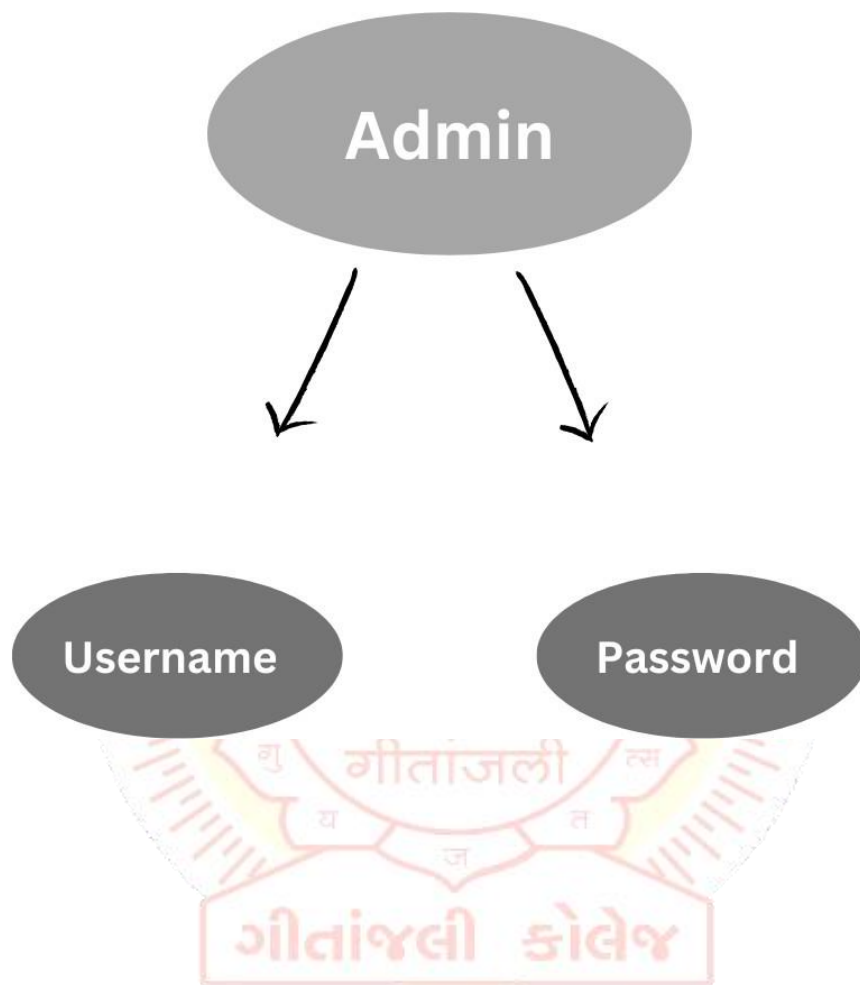
### ER-Diagram

An entity Relationship Diagram (ERD) is a data modeling technique that graphically illustrates an information system's entities and the relationship between those entities. An ERD is a conceptual and representation model of data used to represent the entity from work infrastructure.

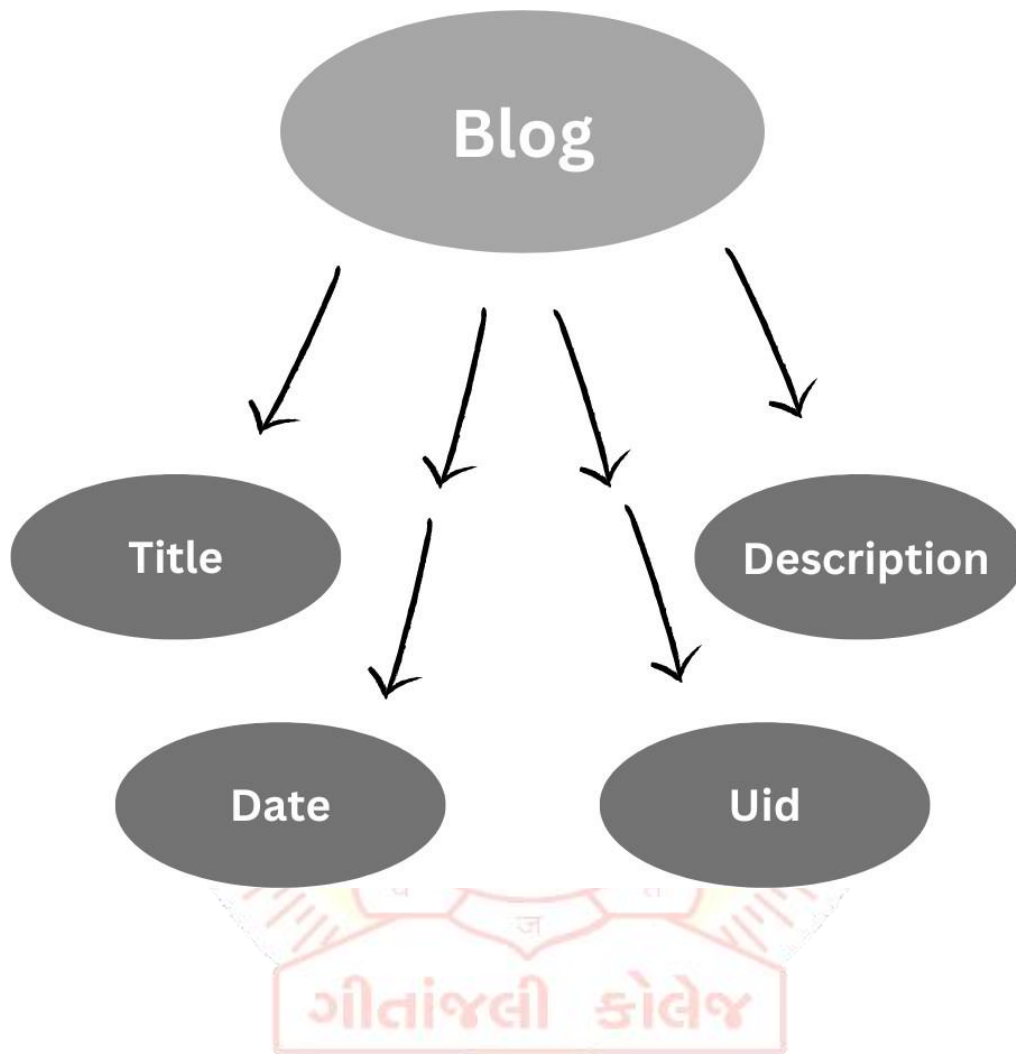
#### ➤ 1) user



## 2) Admin



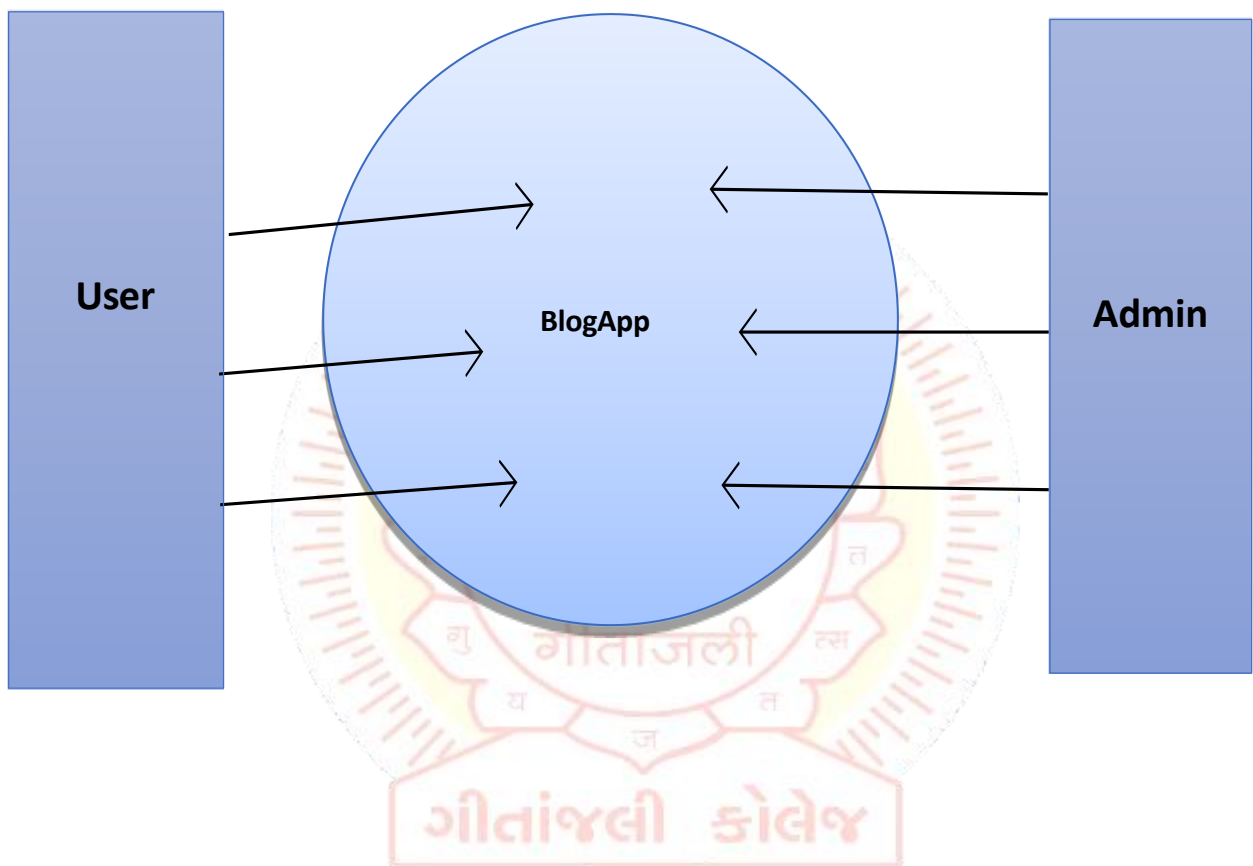
### 3) Blog



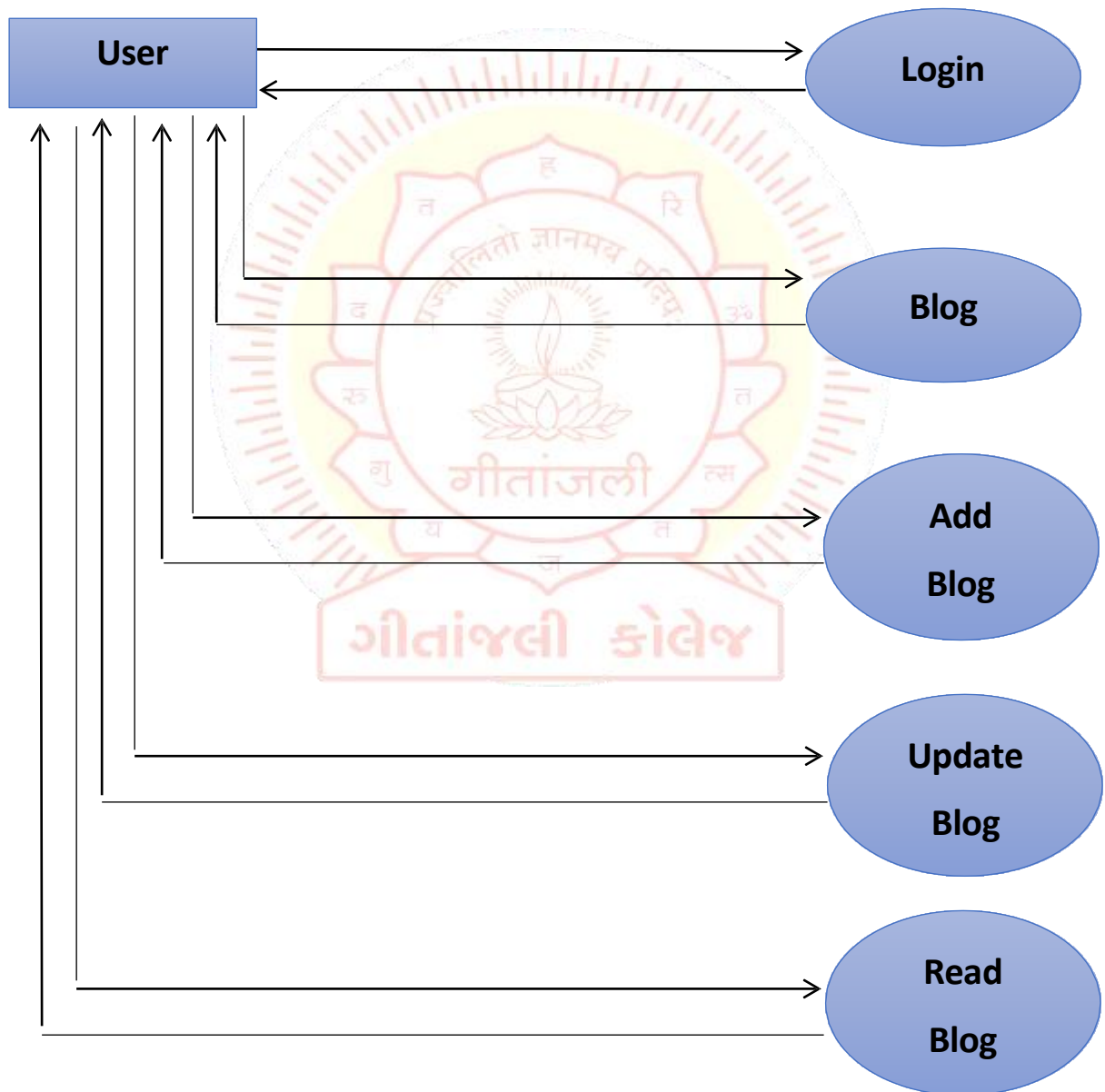
## System Design Tools [DFD's]

### DFD (Data Flow Diagram) :

#### DFD 0 Level Diagram



### DFD 1 Level Diagram



## Data Dictionary

### ➤ Database Collections :-

- 1) Users
- 2) Blogs
- 3) Admin



### 1) User

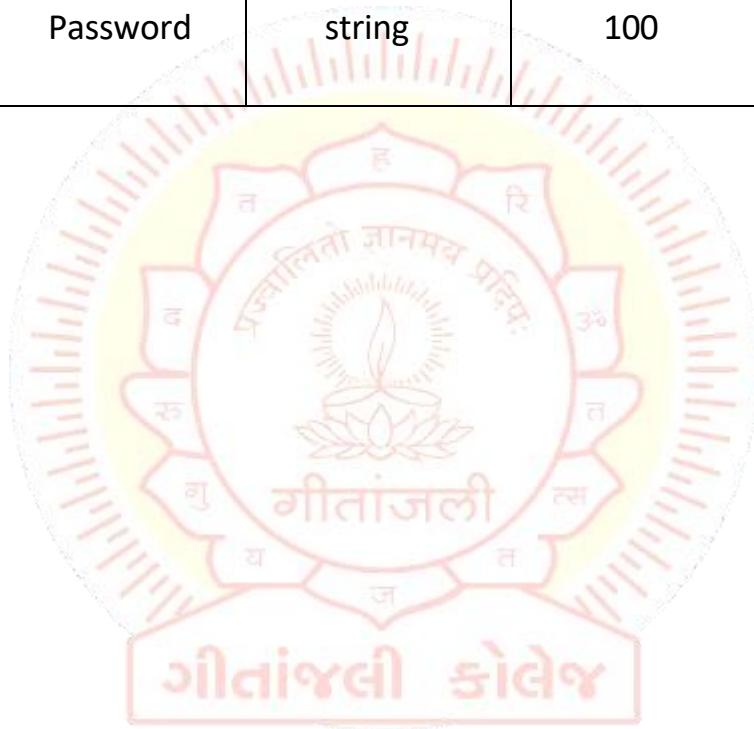
Sr No.	Fields	Data Type	Size	Constraints
1	_id	string	-	Primary key
2	Username	string	100	-
3	Email	string	100	-
4	Password	string	100	-

### 2) Blogs :-

Sr No.	Fields	Data Type	Size	Constraints
1	_id	string	-	Primary key
2	Title	string	25	-
3	Description	string	200	-
4	Date	string	20	

## 2) Admin:-

Sr No.	Fields	Data Type	Size	Constraints
1	_id	string	-	Primary key
2	Username	string	100	-
4	Password	string	100	-



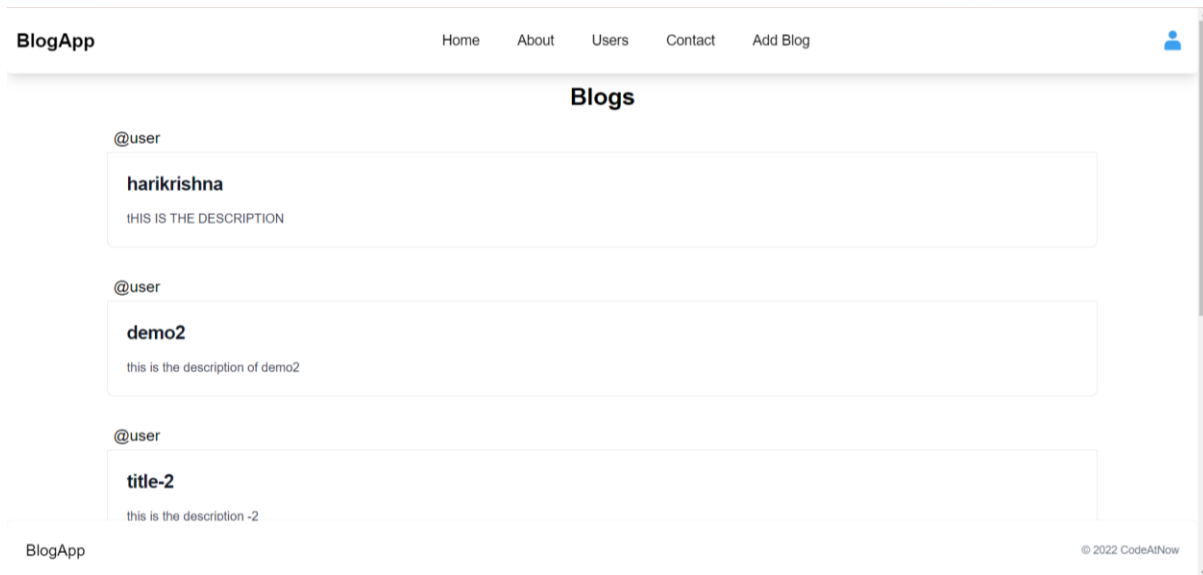


### Test Cases

Case Name	Case Description	Actual Output	Test Result
Register	Register with new account	Register with the new account while already taken email cannot be registered again	Pass
Login	A window with a two textbox username and password.	Write correct email and password and login successfully.	Pass
Home	Screen Displays all menus and create Blog .	Screen Displays all Blogs of the website by the users till date.	Pass
Single link	Display single blog page with the react router	Display single page of the blog which is clicked by the user	Pass
Add Blog	Add Blog	Created new blog with the title and description	Pass
Update account	Updated email and password	Updated email and password by entering old and new password works perfectly	Pass

## ScreenShots

- **Home Page:-**



- This page is allows first page of the blog application. This screen is the first screen that appears at the start of the application in React Blog Application. This screen will show you the recents blog done by any user in the website

- **Register Page:-**

### Register

Your Username

Your email

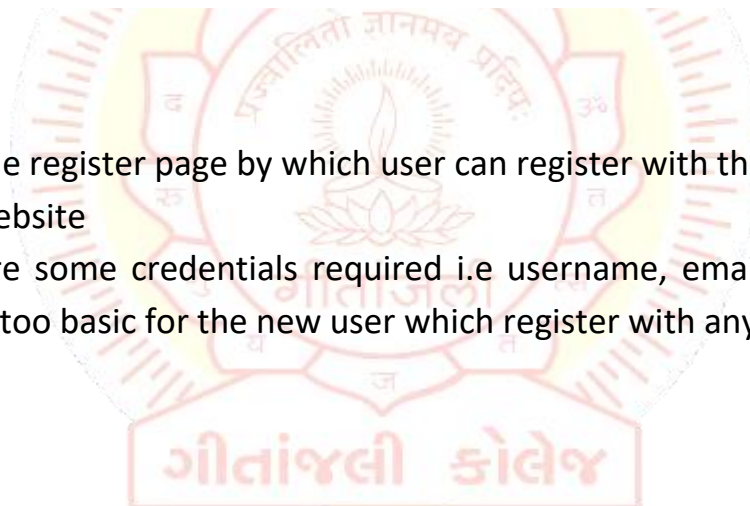
Your password

already have an account [Login](#)

BlogApp

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- This is the register page by which user can register with the new account in our website
- There are some credentials required i.e username, email, password which is too basic for the new user which register with any website.



- **Login Page:-**

### Login

Your Username

Your password

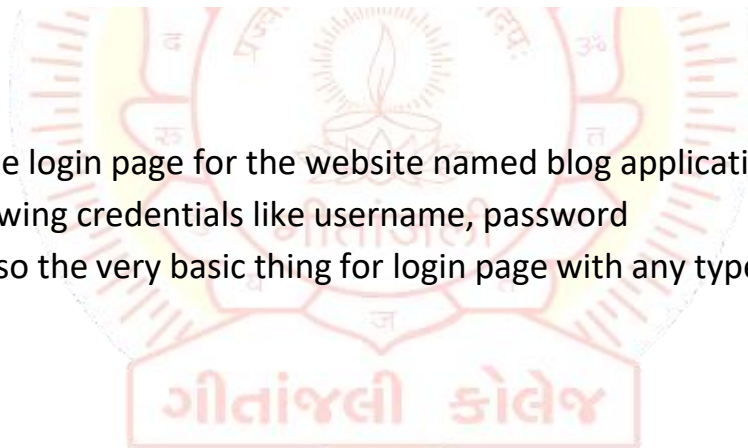
[Forgot password](#)

[Register](#)

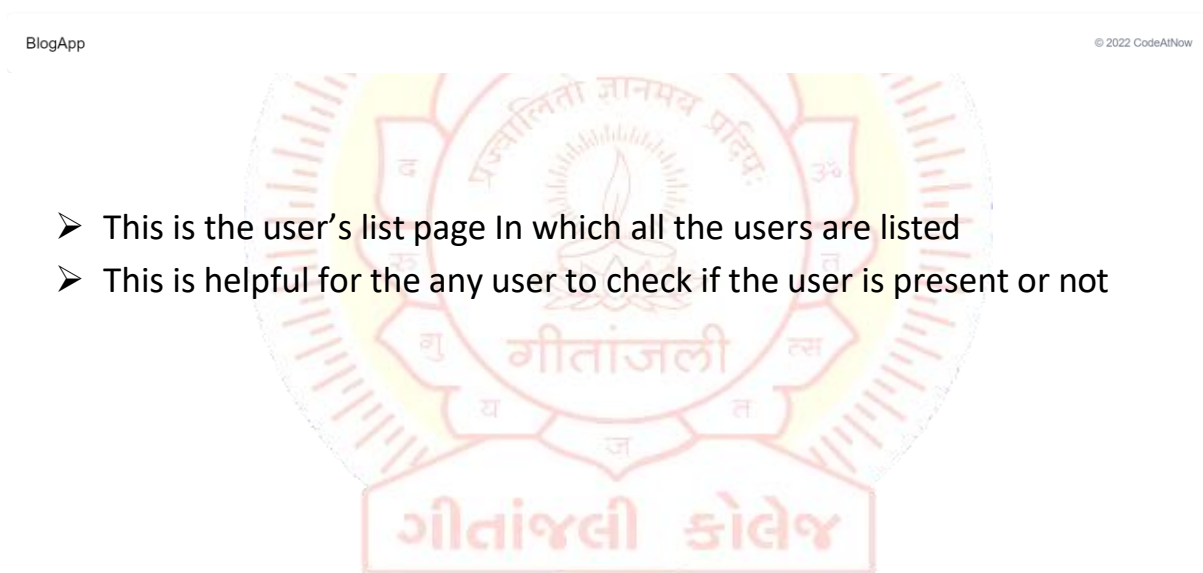
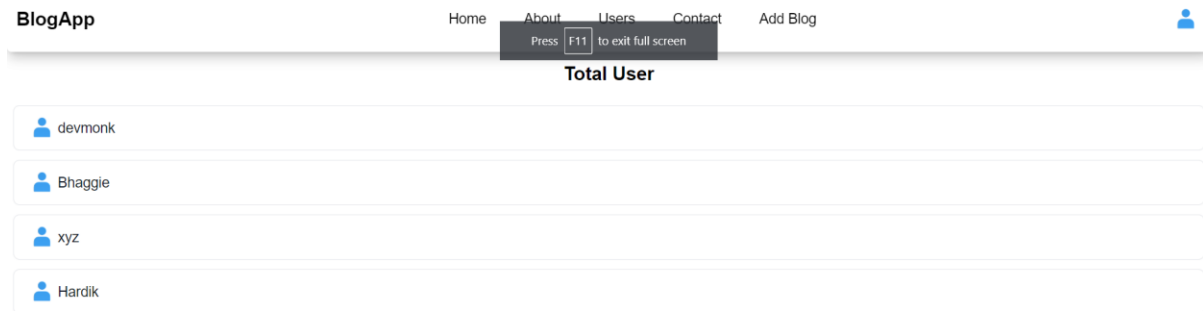
BlogApp

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- This is the login page for the website named blog application which has the following credentials like username, password
- This is also the very basic thing for login page with any type of website



- **Users Page:-**



- This is the user's list page In which all the users are listed
- This is helpful for the any user to check if the user is present or not

- **Add BlogPage :-**

BlogApp

Home About Users Contact Add Blog

**Add Blog**

Title

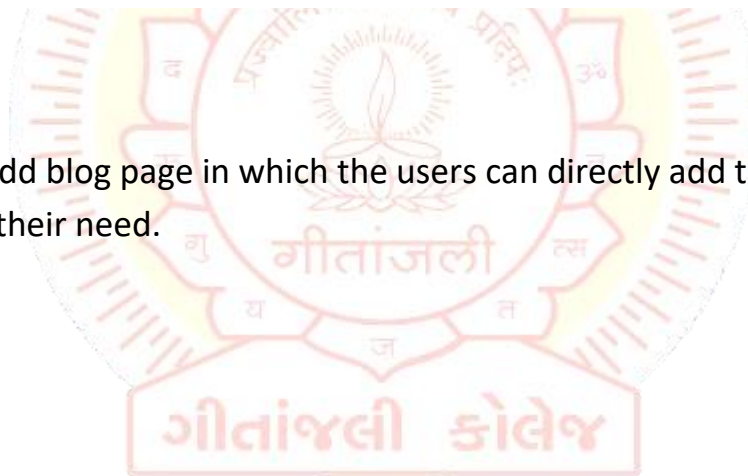
Enter the title

Description

Enter the description

Submit

- This is the add blog page in which the users can directly add the respective blog as per their need.



- **Update Users details:-**

**BlogApp**

HomeAboutUsersContactAdd Blog

<

**Update User**

@devmonk

devmonk@gmail.com

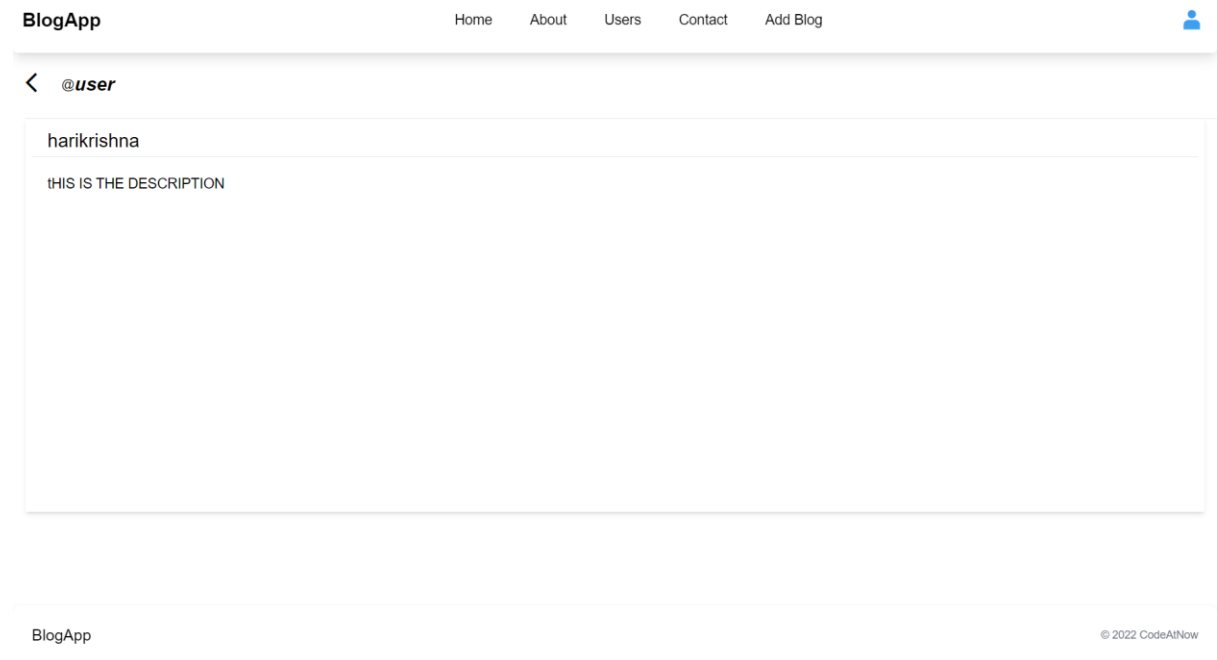
devmonk

BlogApp

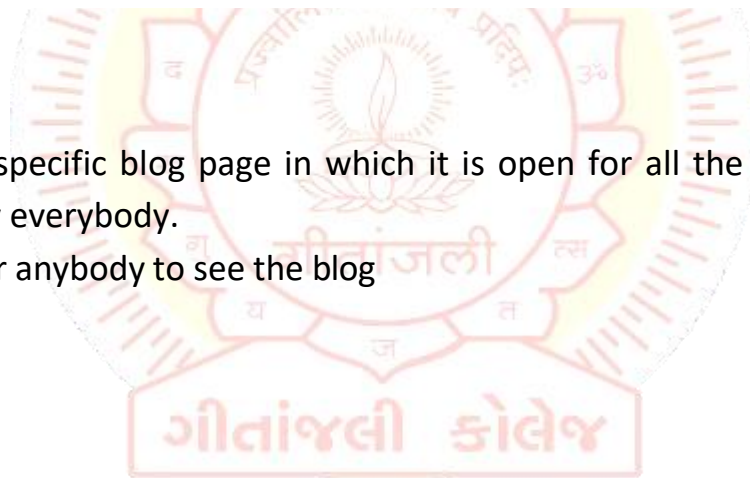
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- This page is only for the user who are logged in with their account and wants to update their information as per their need
- In this page the user cannot directly update their username as it is the only key for the admin to manage all the users

- **Specific Blog Page:-**

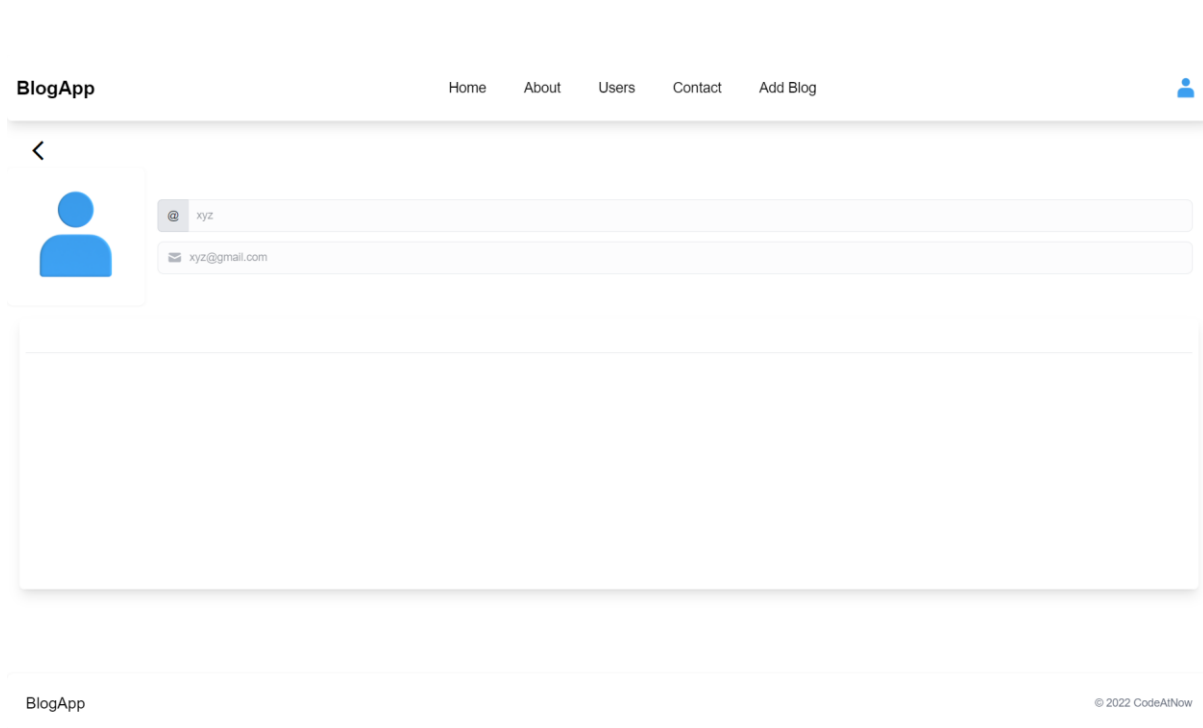


- This is the specific blog page in which it is open for all the user It can be accessed by everybody.
- It is used for anybody to see the blog





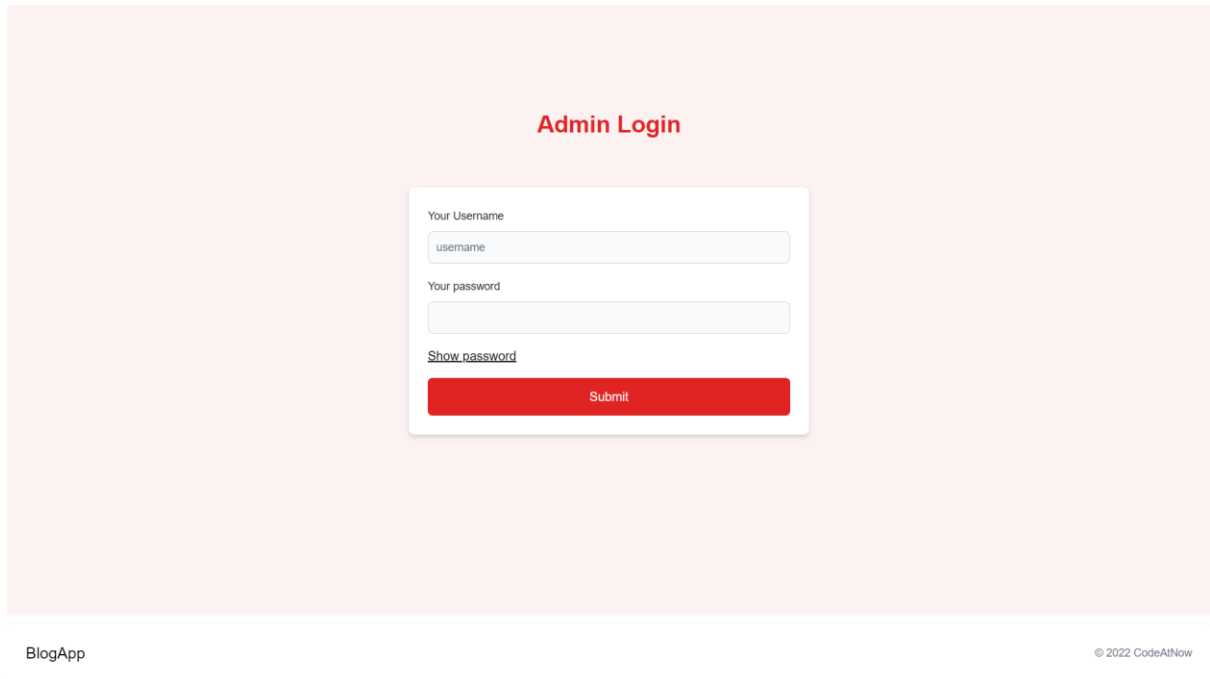
- **Individual Users page:-**



- This page is also open for everybody which is just users details page
- It shows us that how many blogs are created by the specific user
- And also some minute details like email and username

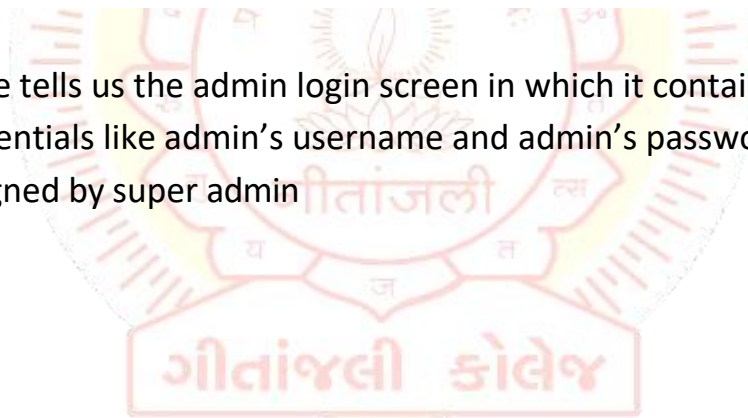


- **Admin Login Screen :-**




The image shows a mockup of an Admin Login screen. It features a light pink background. At the top center, the text "Admin Login" is displayed in red. Below this, there is a white rectangular form with a subtle shadow. Inside the form, there are two input fields: the first is labeled "Your Username" and contains the text "username"; the second is labeled "Your password" and is empty. Below the password field, there is a link that says "Show password". At the bottom of the form is a red button with the text "Submit" in white. In the bottom left corner of the slide, the text "BlogApp" is visible, and in the bottom right corner, the text "© 2022 CodeAtNow" is visible.


- This page tells us the admin login screen in which it contains and ask for the credentials like admin's username and admin's password
- It is assigned by super admin




- **Admin Home Page :-**

[Add Admin](#) [Remove Admin](#) [Update Admin](#)

 Users  
4

 Admins  
1

 Blogs  
6

**User's Details**  
All projects from the Loopple team

USERNAME	EMAIL	PASSWORD	DELETE	UPDATE
devmonk	devmonk@gmail.com	devmonk	<a href="#">DELETE</a>	<a href="#">UPDATE</a>
Bhaggie	bhaggie@gmail.com	Bhaggie	<a href="#">DELETE</a>	<a href="#">UPDATE</a>
xyz	xyz@gmail.com	xyz	<a href="#">DELETE</a>	<a href="#">UPDATE</a>
Hardik	hardik@gmail.com	1234	<a href="#">DELETE</a>	<a href="#">UPDATE</a>

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- This is the admins home page in which you can just see many options like to list the admins, blogs and users
- And here you can also have the options to delete the admin, blog and users
- Also you can have the option of update the admin, blog and users

## **Future Enhancement Of Projects**

Enhancing the blogApplication in the manner like to make it scalable it must be in the flow, there is no network issue must be interrupted with the blogApplication

We are planning to host this product in the future version

There will be many mistakes in the project but we are going to overcome all the problems in the future enhancement



### **Limitation Of Project:**

The limitations of a project is we can say the small scale project we are going for just small scale in which not many users will come

Currently we are not focusing on the large scale



### Webliography

- <https://stackoverflow.com/>
- <https://www.javatpoint.com/>
- <https://www.w3schools.com/>

