

Project Report On

BlogApp

Developed By

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Submitted To



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Acknowledgment

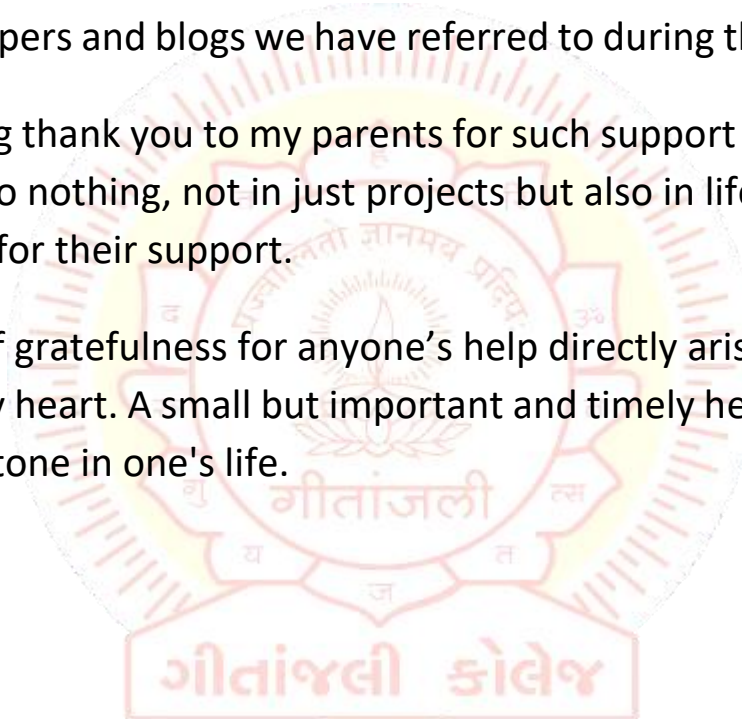
I am happy to submit my idea for the "BlogApplication" Application to Saurashtra University, Rajkot for a BCA degree in the computer branch.

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.

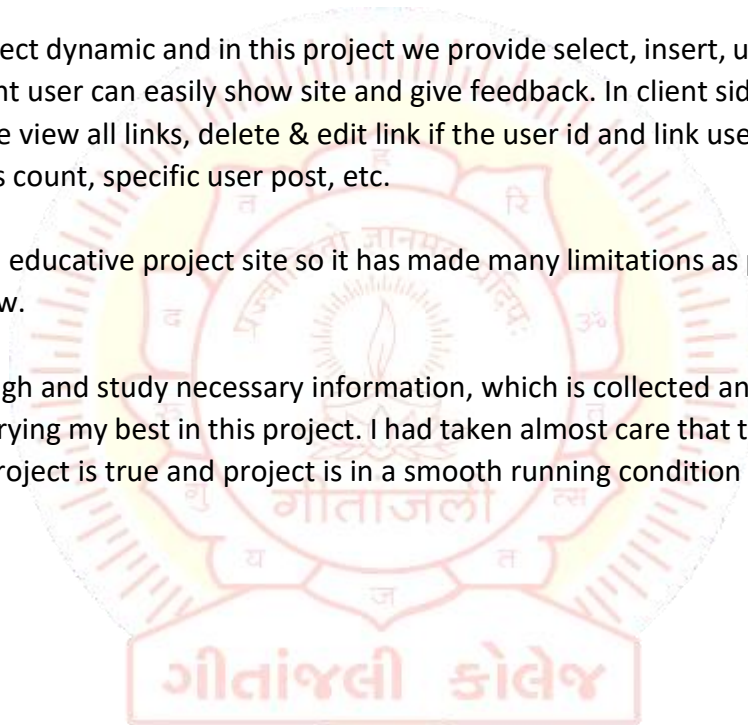
The project training in a student's life is like a live experience in the industry. If we have experience then & then we get top of the level. Most Important Factor of B.C.A Course is Project Work.

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 : -

Submitted By : Harikrishnasinh Zala & Kuldipsinh Jadeja

Documentation Tool : Microsoft Word

Operating System : Windows 11



Project Requirements

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

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:

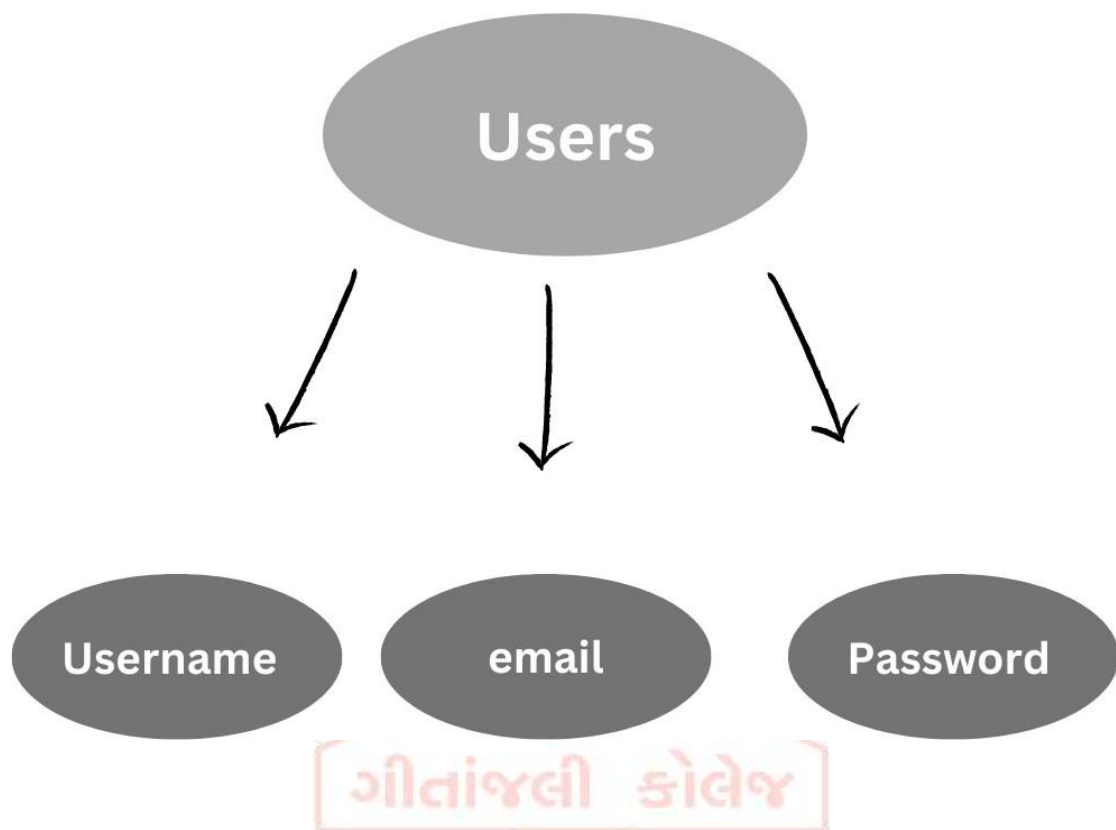
The maintenance phase involves ongoing support and enhancement of the MERN application post-deployment. This includes addressing bug fixes, applying updates, optimizing performance, and incorporating new features to meet evolving user needs.

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.

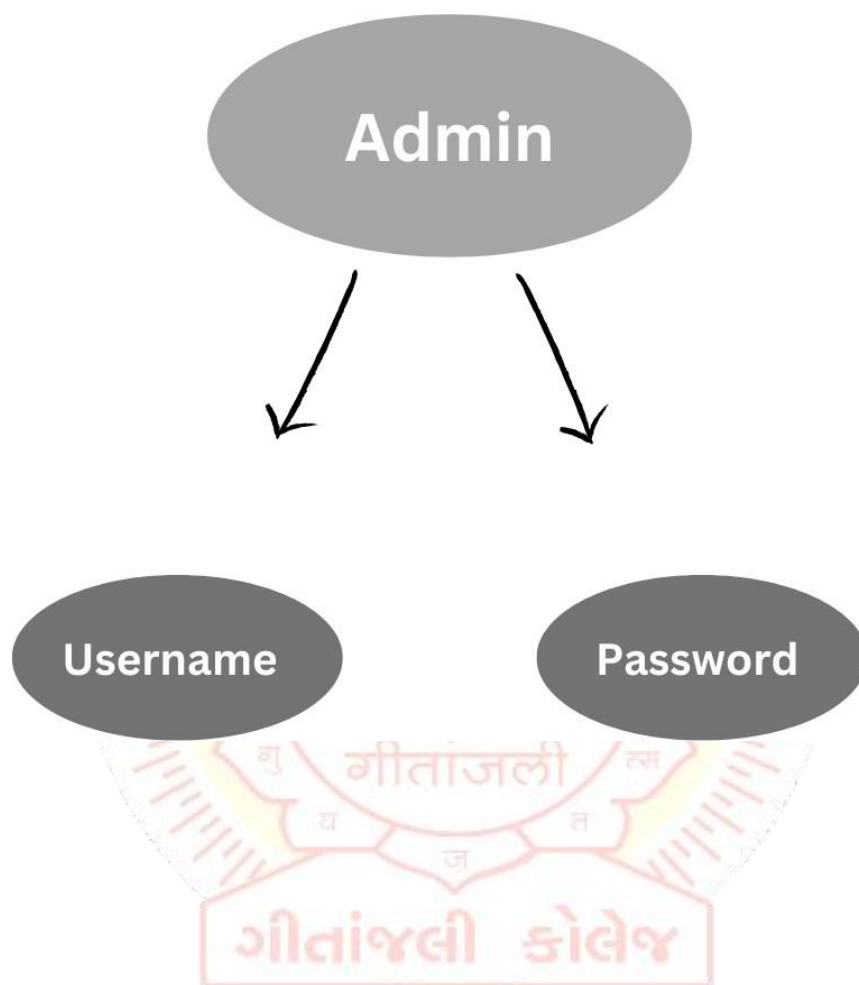
ER-Diagram

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 .

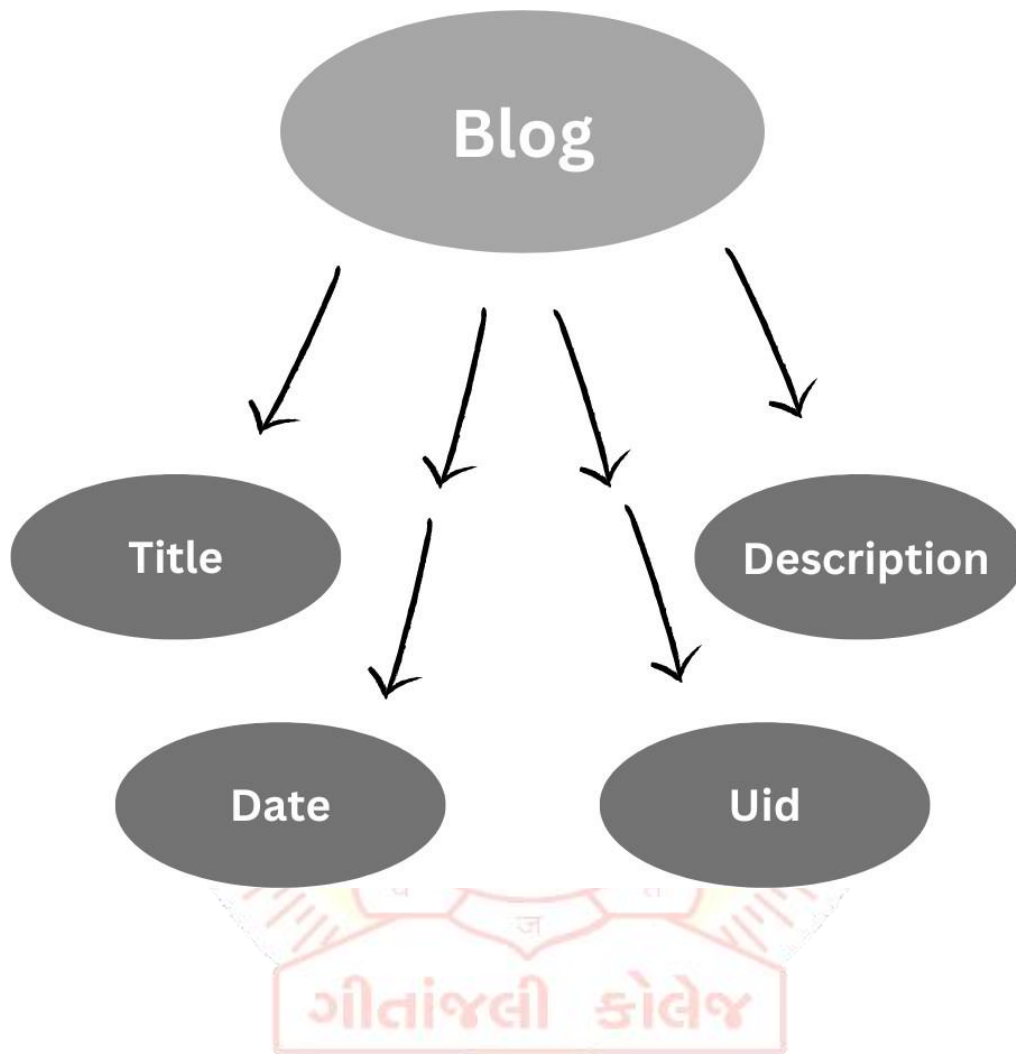
➤ 1) user



2) Admin



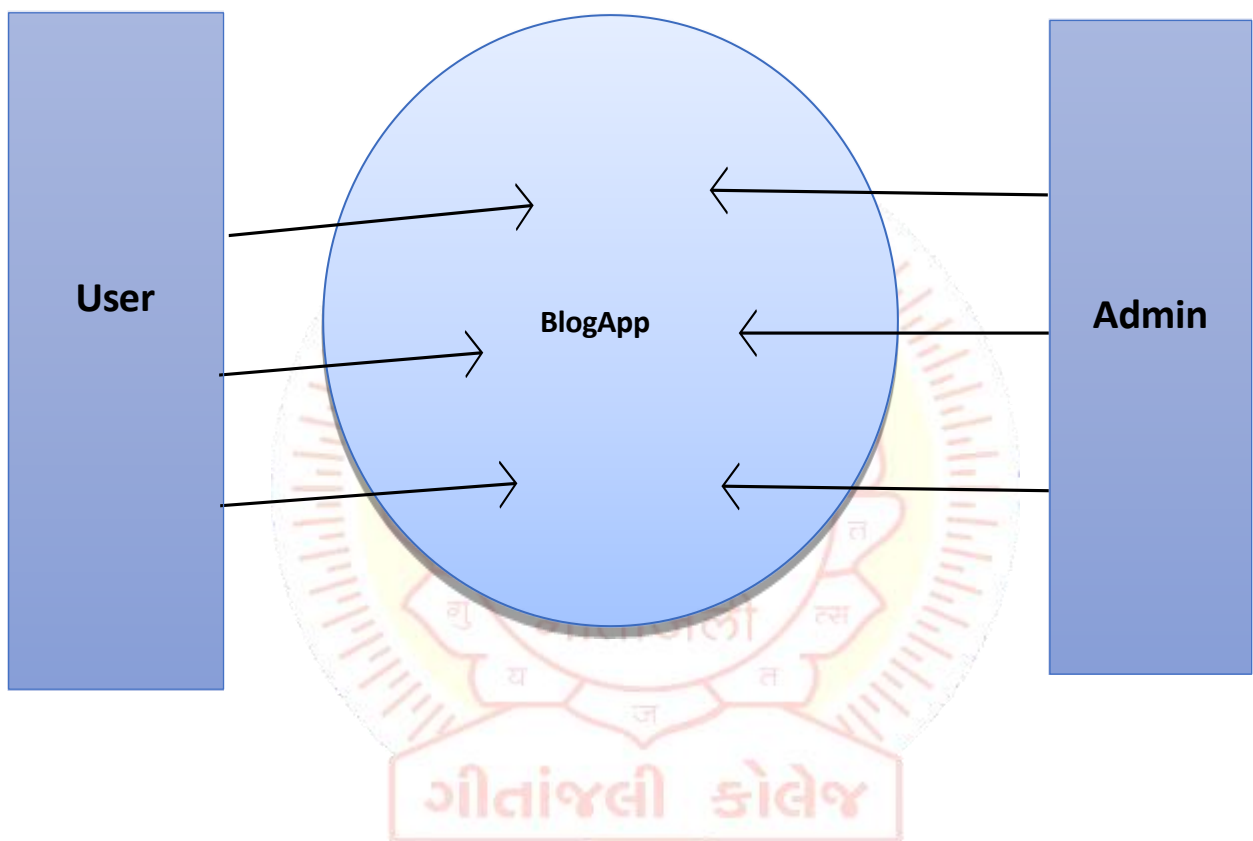
3) Blog



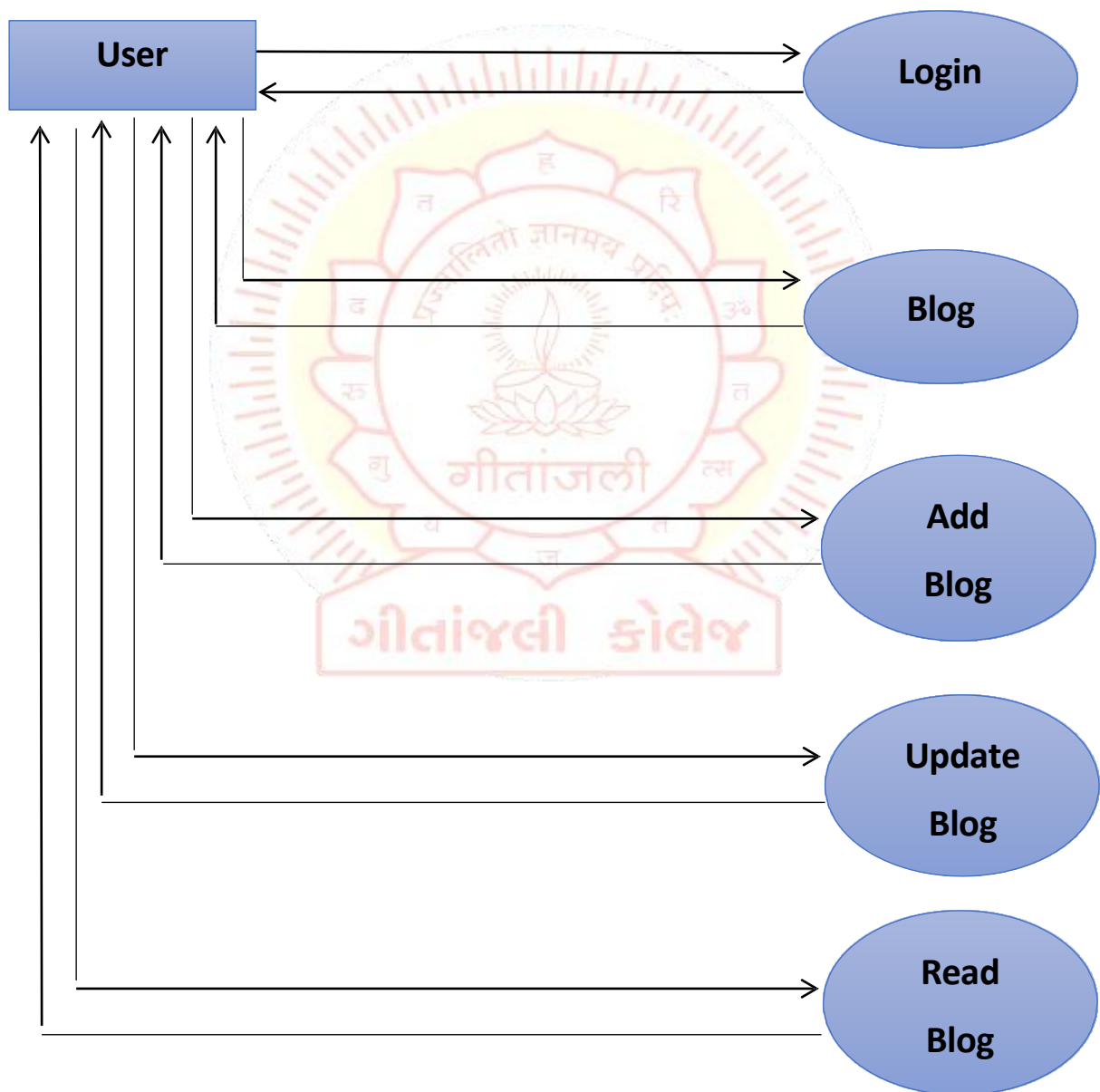
System Design Tools [DFD's]

DFD (Data Flow Diagram) :

DFD 0 Level Diagram



DFD 1 Level Diagram



Data Dictionary

➤ Database Collections :-

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



1) User

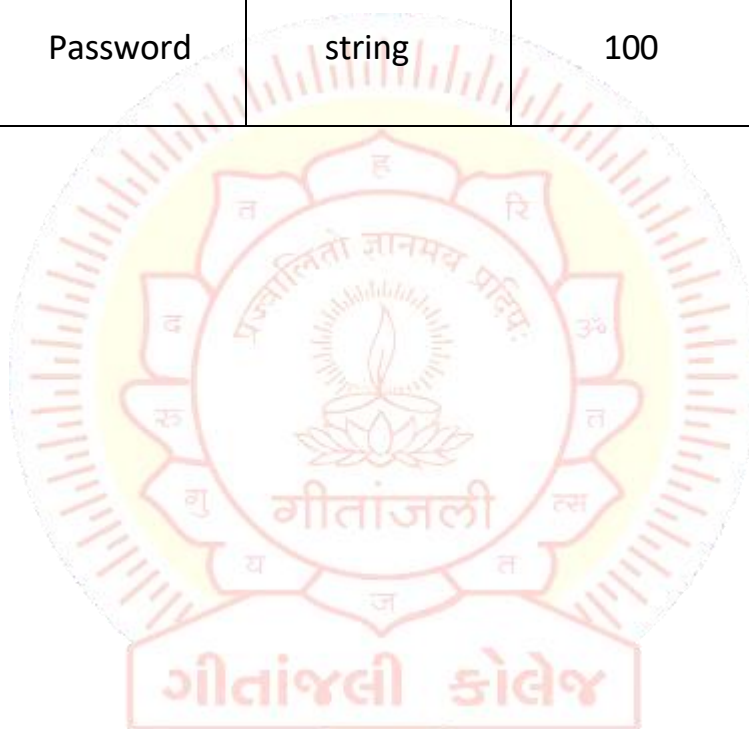
Sr No.	Fields	Data Type	Size	Constraints
1	\$id	string	-	Primary key
2	Username	string	100	-
3	Email	string	100	-
4	Password	string	100	-

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	-

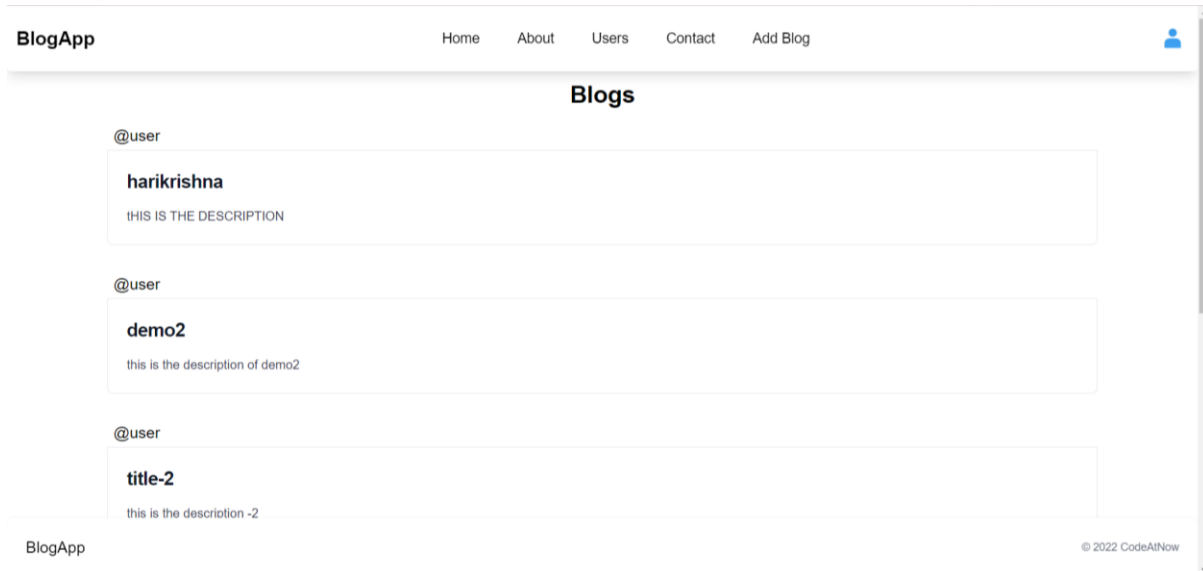


Test Cases

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:-**

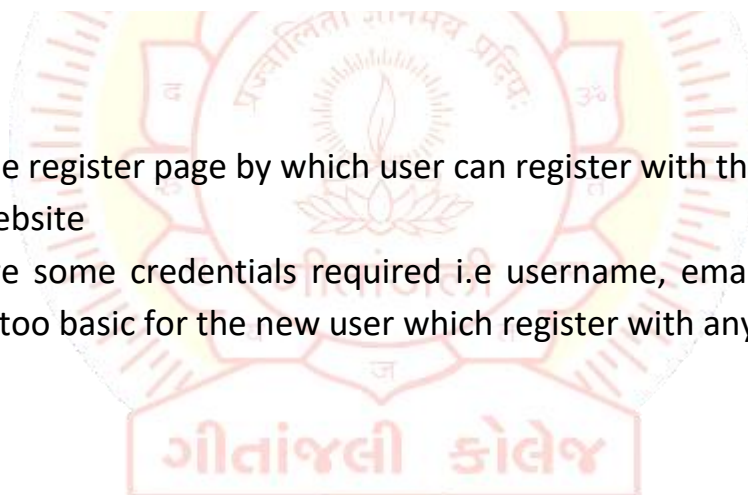
Register

The registration form is titled "Register". It contains three input fields: "Your Username" with the value "Harkrishna", "Your email" with the value "name@flowbite.com", and "Your password" which is empty. Below the password field, there is a link that says "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

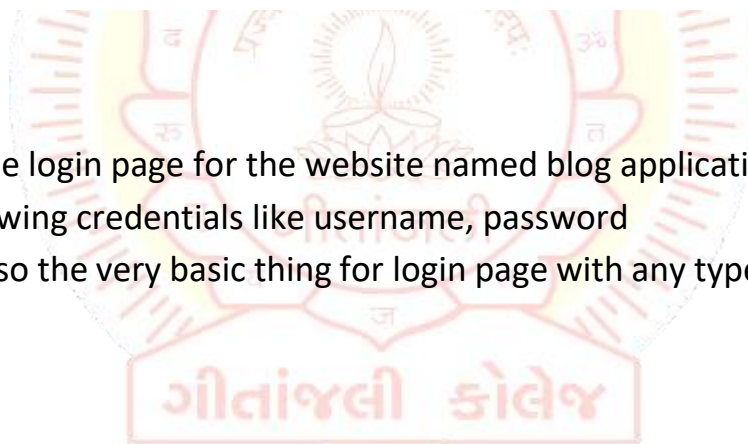
[Forgot password](#)

[Register](#)

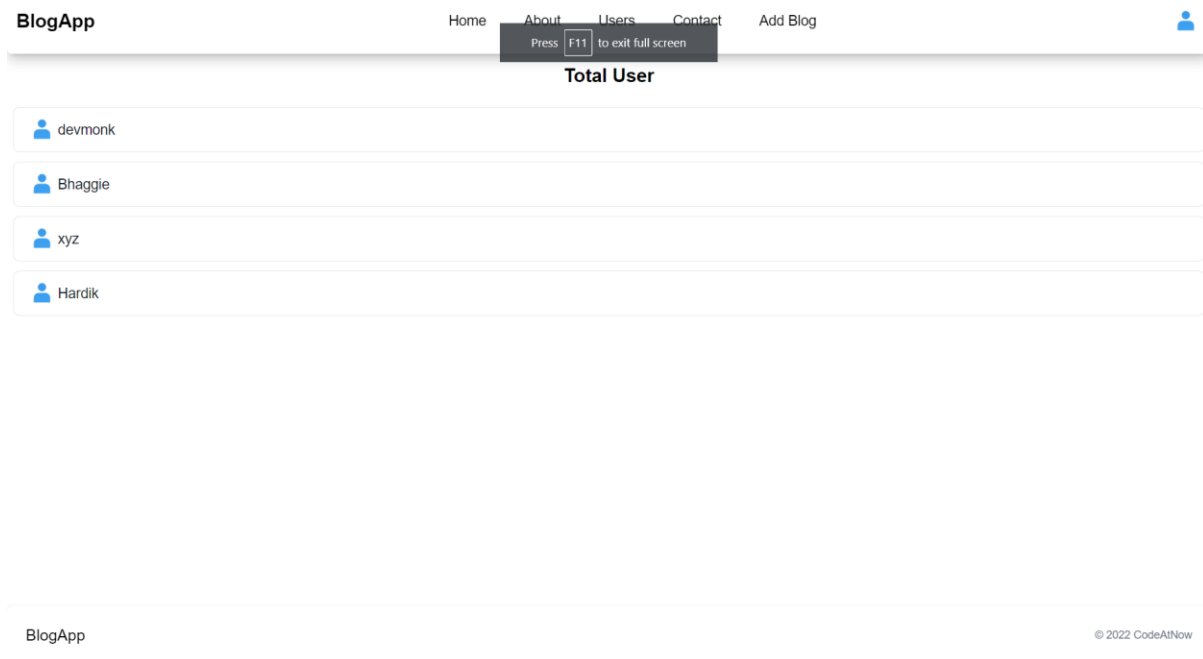
BlogApp

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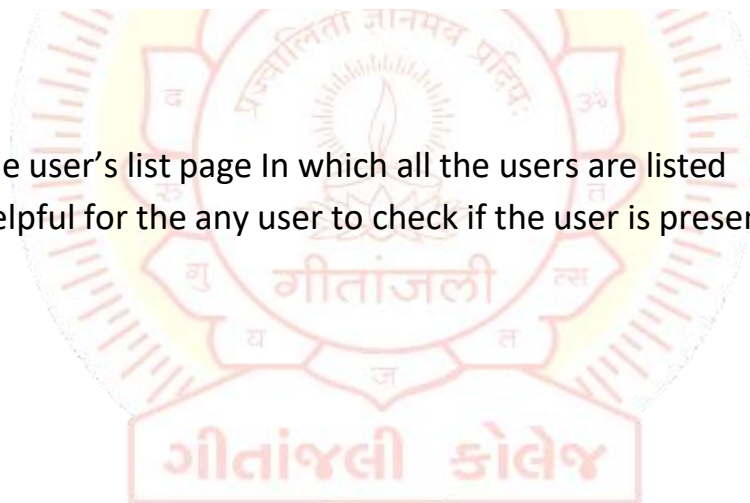
- This is the login page for the website named blog application which has the following credentials like username, password
- This is also the very basic thing for login page with any type of website



- **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

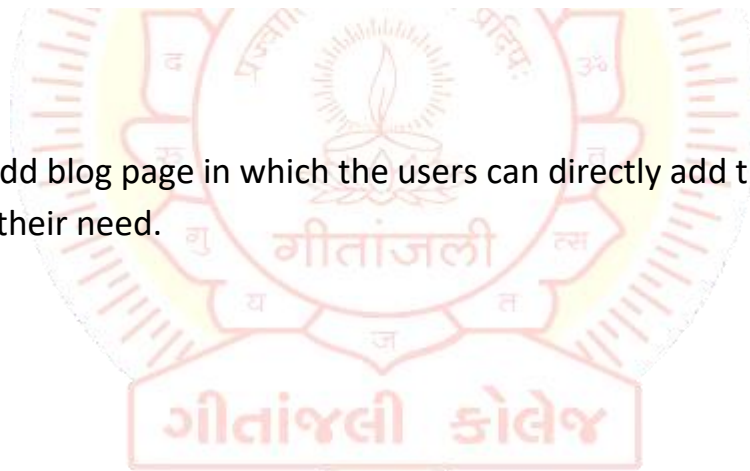
Description

Submit

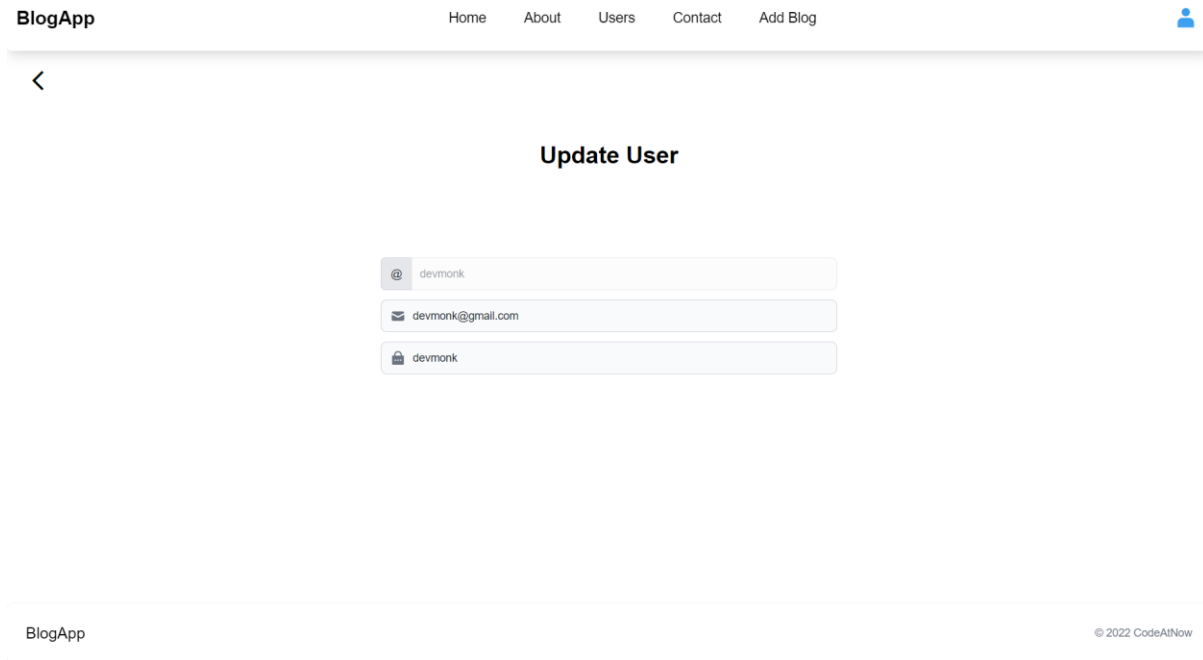
BlogApp

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



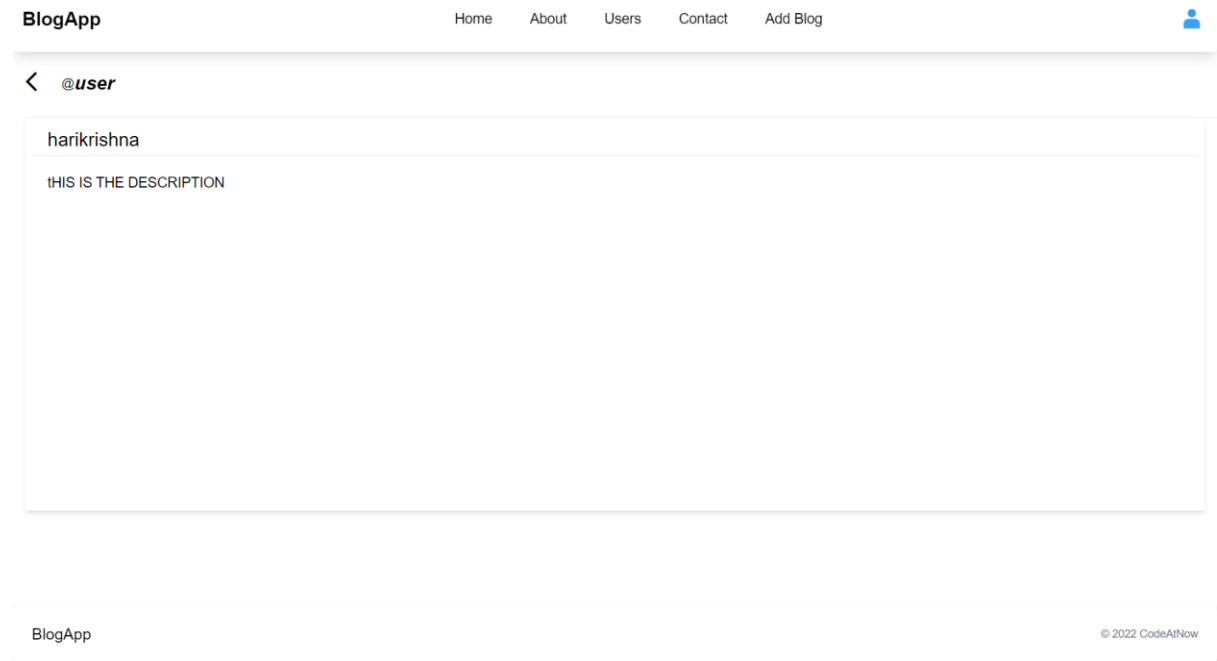
- **update Users details:-**



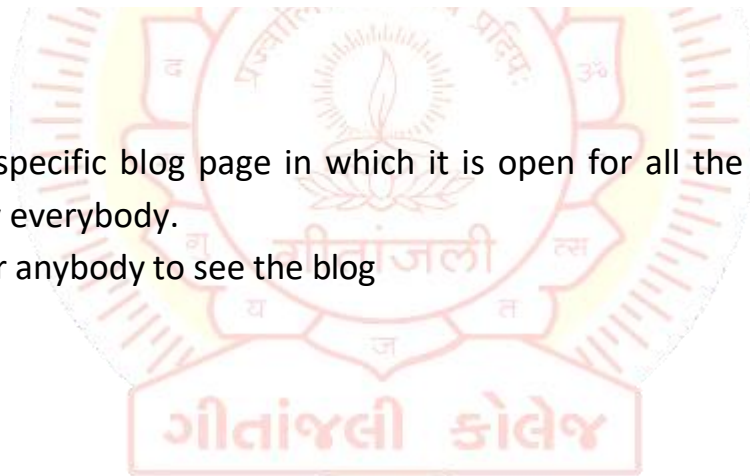
The screenshot shows a web application interface for updating user details. At the top, there is a navigation bar with the logo 'BlogApp' on the left and links for 'Home', 'About', 'Users', 'Contact', and 'Add Blog' on the right. A blue user icon is also present in the top right corner. Below the navigation bar is a back arrow icon. The main heading is 'Update User'. The form contains three input fields: a username field with an '@' icon and the text 'devmonk', an email field with an envelope icon and the text 'devmonk@gmail.com', and a password field with a lock icon and the text 'devmonk'. The footer of the page shows 'BlogApp' on the left and '© 2022 CodeAtNow' on the right.

- 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

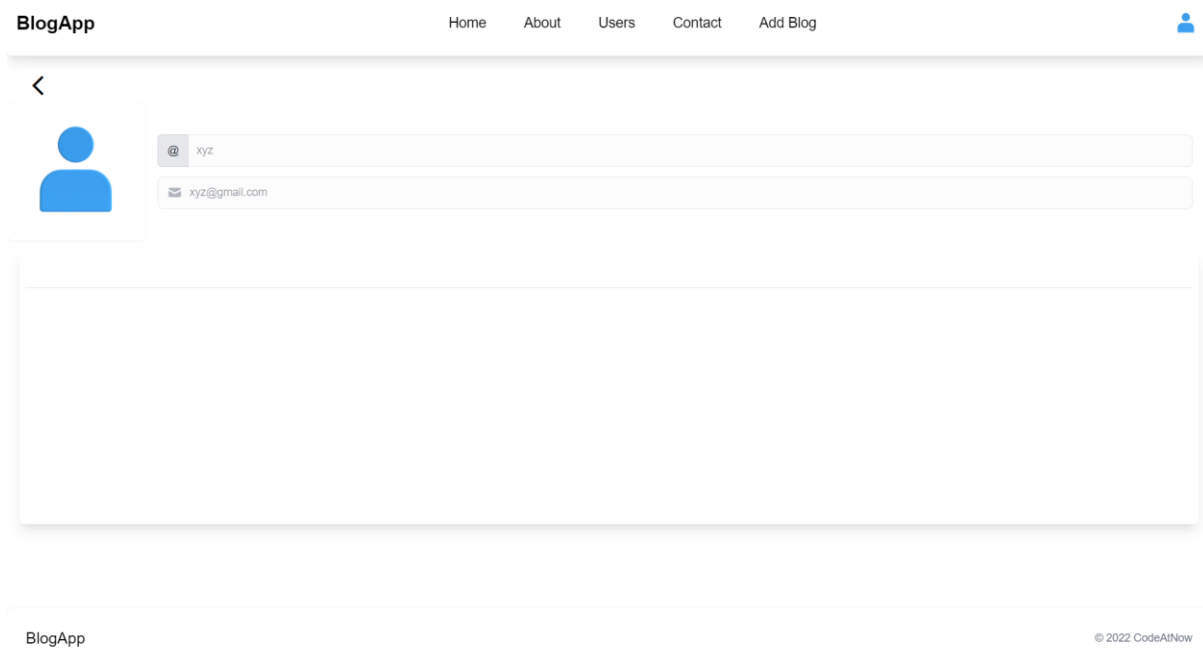
- **Specific Blog Page:-**



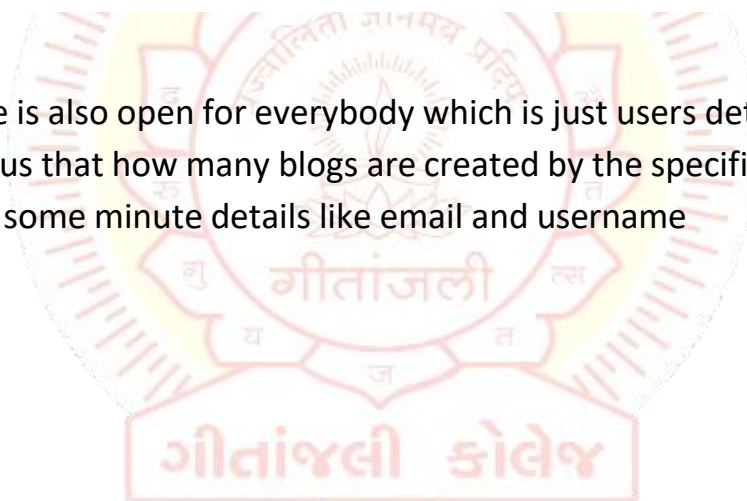
- This is the specific blog page in which it is open for all the user It can be accessed by everybody.
- It is used for anybody to see the blog



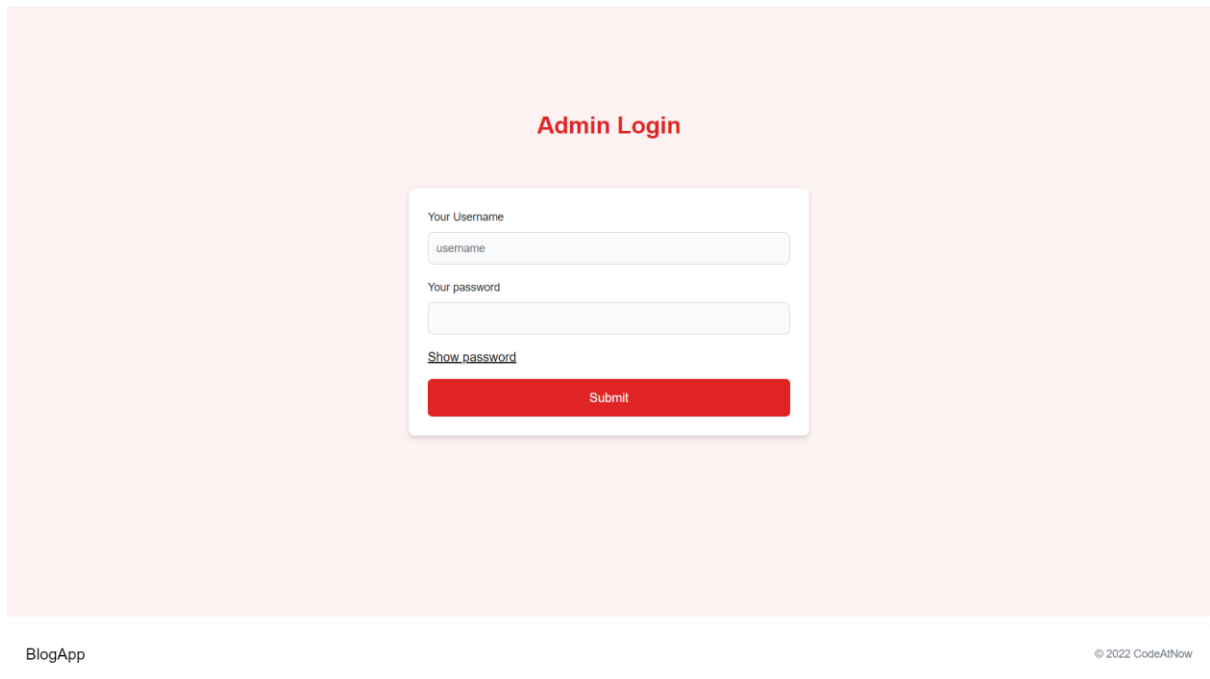
- **Individual Users page:-**



- 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

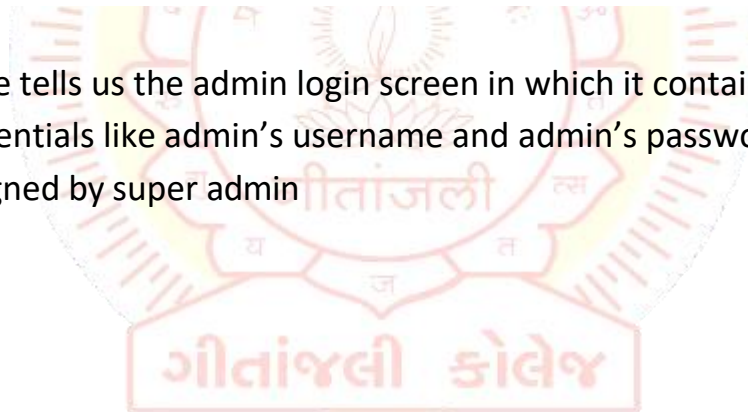


- **Admin Login Screen :-**



The image shows a web page titled "Admin Login" in red text. Below the title is a white login form with a red border. The form contains two input fields: "Your Username" with the placeholder text "username" and "Your password". Below the password field is a link that says "Show password". At the bottom of the form is a red "Submit" button. The background of the page is a light pink color. In the bottom left corner, it says "BlogApp" and in the bottom right corner, it says "© 2022 CodeAtNow".

- 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	DELETE	UPDATE
Bhaggie	bhaggie@gmail.com	Bhaggie	DELETE	UPDATE
xyz	xyz@gmail.com	xyz	DELETE	UPDATE
Hardik	hardik@gmail.com	1234	DELETE	UPDATE

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

