

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)



Final Year Internship Report

on

WEB DEVELOPMENT - MERN

Submitted By:

ANANT NIGAM

0901CS181008

Faculty Mentor:

Dr. Manish Dixit

Professor and Head, Department Of Computer Science and Engineering

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

MAY-JUNE 2022

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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WEB DEVELOPMENT - MERN

A final year internship report submitted in partial fulfilment of the requirement for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

Submitted by:

Anant Nigam

(0901CS181008)

Internship Faculty Mentor:

Mr. Pushkar Goyal, Praedico Global Research

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

MAY-JUNE 2022

Internship Certificate Received from Industry/Company



Email: mail@praedicoglobalresearch.com
praedicoglobalresearch@gmail.com
Website: www.praedicoglobalresearch.com

Ref.: PGR-2022/I-552

Date: 11th – May - 2022

CERTIFICATE OF INTERNSHIP

This certificate is awarded to

Mr./Miss. ANANT NIGAM

In appreciation for your accomplishments in the company as an intern
(Position titled- "*Web Developer – MERN*")
at Praedico Global Research Pvt. Ltd.,
from Jan 10th, 2022 to May 10th, 2022.

We take this opportunity to wish you a long, happy and successful career.

Worlds Finest Robotic Stock Researchers

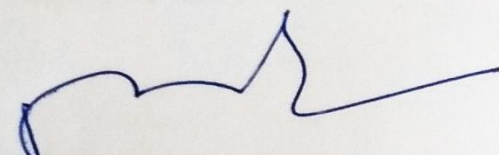
Authorized Signatory

Praedico Global Research Pvt. Ltd.

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

CERTIFICATE

This is certified that **Anant Nigam** (0901CS181008) has submitted the Internship report titled **Web Development - MERN** of the work he has done under the mentorship of **Dr. Manish Dixit**, in partial fulfilment of the requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering from Madhav Institute of Technology and Science, Gwalior.



Dr. Manish Dixit
Faculty Mentor
Professor and Head
Computer Science and Engineering



Dr. Manish Dixit
Professor and Head,
Computer Science and Engineering
Dr. Manish Dixit
Professor & HOD
Department of CSE
M.I.T.S. Gwalior

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

DECLARATION

I hereby declare that the work being presented in this Internship report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in CSE at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of my work under the mentorship of **Dr. Manish Dixit, Professor and Head** Department of CSE.

I declare that I have not submitted the matter embodied in this report for the award of any degree or diploma anywhere else.



Anant Nigam

0901CS181008

IV Year,

Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

ACKNOWLEDGEMENT

The full semester internship has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology and Science** to allow me to continue my disciplinary/interdisciplinary internship as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, **Department of Computer Science and Engineering**, for **allowing** me to explore this internship. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Dr. Manish Dixit, Professor and Head**, Department of Computer Science and Engineering, for his continued support and close mentoring throughout the internship. I am also very thankful to the faculty and staff of the department.



Anant Nigam

0901CS181008

IV Year,

Computer Science and Engineering

ABSTRACT

This report is a detailed overview of my four months-long Web development internship journey at Praedico Global Research Private Limited which is a private company that was founded on 09 April, 2018. They deal in Stock Market Training, Stock Marketing Predictive Softwares, Robotic Stock Trading, Global Equity Research, Portfolio Designing, Financial Literacy and Stock Market Research Using Deep Learning.

During my internship, I have learned a lot about Web development using the MERN stack. I have also learned to work in a corporate space which not only enriched me professionally but also helped me grow personally. My contribution was appreciated by my internship mentor and other members of the department. The career path I would be selecting for myself is quite influenced by my internship as I have had a great opportunity to work on a real-world project and practically see the how web development sector is working and evolving.

Reflecting on my experience at Praedico Global Research Private Limited, the internship program has broadened my knowledge base and made immeasurable impacts on my aptitude in varied fields such as Team work, Report writing/Analytical writing, and Organizational and Intercultural competence.

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Chapter 1: Internship Overview

1.1 Introduction

A blogging site is a type of website on which articles called blogs are published regularly in some area of personal or professional interest. It is a place to share your thoughts or express yourself to the world. Blogs are usually maintained by an individual. And it reflects the personality of the person who writes it. Most blogs contain short, informal articles called blog posts. These blogs posts usually contain some combination of text, photos, and other media. At its core, a blogging site is just a place on the internet where one can share or record their opinions, experiences, and interests.

The aim was to develop a web application which aims at providing a platform for creating, sharing and managing blogs i.e. a “Blogging Site” application. It has two modules namely the user module, and the administrator module. And each of these has their corresponding features.

Our website allows users to have no formal knowledge needed for them to use this application.

1.2 Objectives

The objectives of developing this project are:-

1. To learn and apply the MERN stack to create web applications.
2. To develop a user-friendly blog management system.
3. To integrate it with another website if needed.
4. To give a platform to Bloggers.
5. To create a digital portfolio of Bloggers.

1.3 Scope

A blogging system can be used alone or as a component of any modern website. For businesses and employees to talk about their developments and new products, blogging websites are critical.

Some businesses also utilize blogs to promote their products and services. Some of important use cases involve:

1. Personal Blogs
2. Marketing Blogs
3. Corporate and educational Blogs

1.4 System Requirements

1.4.1 Hardware Requirements

- Processor: Intel CORE i3 or above
- RAM: 4.0 GB or more
- Hard Disk Drive: 500 GB or more

1.4.2 Software Requirements

- Operating System: Windows 7 or above
- Browser: IE/ Mozilla Firefox/ Google Chrome etc.

Chapter 2: Literature Review

2.1 Frontend Technologies

- **React JS**
 - An open source and light-weight frontend JavaScript library.
- **React router: v6.2.1:**
 - Third-party library that enables routing in React apps.
- **Regular bootstrap: v5.1.3**
 - CSS Framework for developing responsive websites.
- **React bootstrap: v2.1.2**
 - A complete re-implementation of the Bootstrap components as React components.

2.2 Backend Technologies

- **Node.js: v14.16.1**
 - An open-source, cross-platform, back-end JavaScript runtime environment.
- **Express.js: v4.17.3**
 - Framework designed to build & manage server, routes, and middleware.
- **CORS (Cross Origin Resource Sharing): v2.8.5**
 - Middleware to permit the sharing of data b/w different servers/ports.
- **mongoose: v6.2.8**
 - Object data modeling tool for Node.js and MongoDB.
- **Joi Validation: v17.6.0**
 - To validate data based on user defined schemas.
- **bcrypt: v5.0.1**
 - Node.js library for encrypting sensitive data.
- **JWT (jsonwebtoken): v8.5.1**
 - An open standard used to securely transfer information between two parties.
- **nodemailer: v6.7.4**
 - Node.js module for sending emails from the server.

2.3 Database and Other Technologies

- **Database:** Mongo DB
 - 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.
- **API testing:** Postman
 - Postman is an API (application programming interface) development tool which helps to build, test and modify APIs.
- **IDE/ Editor:** Visual Studio Code
 - Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

The MVC design pattern (Model View Controller) describes about:

- **Model** – The Model is the logical data structure behind the complete application and represents by a database.
- **View** – The View is the user interface that you see in the browser whenever you visit a website. They represent it through HTML/CSS/JavaScript files.
- **Controller** – The Controller is the middleman that connects the view and model together. It means the controller is the passing data from the model to the view.

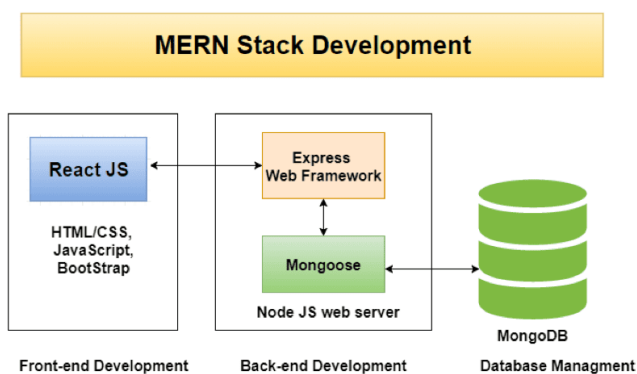


Fig.01 - How MERN stack technologies work.

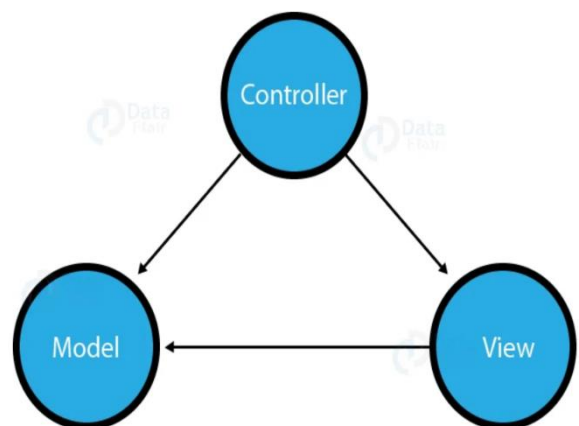


Fig.02 - The MVC design pattern.

Chapter 3: Preliminary Design

3.1 Modules and Their Description

The “Blogging Site” project is developed using the MERN (MongoDB, Express JS, React JS, and Node JS) stack and it has two major modules:

- Admin
- User

3.1.1 Admin

- **Registration:**
 - User will sign-up using their personal details. This will create a new account with the given email Id and newly created password.
- **Login:**
 - Admin will login to the application using his ID and Password.
- **Manage blogs in “Blogs” page:**
 - Admin can READ, CREATE, EDIT or DELETE blogs.
- **Manage Blog Categories in “Categories” page:**
 - Admin can SEE, CREATE, EDIT or DELETE categories.
- **Manage Users in “Users” page:**
 - Admin can SEE or DELETE users.
- **Read messages in “Messages” page:**
 - Admin can SEE or DELETE messages.

From an admin-user perspective, the Blogging Site project consists of following functions/ sections:

- **Registration**
- **Login**
- **Manage blogs**
- **Manage categories**
- **Manage users**
- **Manage messages**
- **Search blogs by blog title or user using Search bar**
- **Logout**

3.1.2 User

- **Registration:**
 - User will sign-up using their personal details. This will create a new account with the given email Id and newly created password.
- **Login:**
 - User will login to the application using their email Id and password.
- **Explore blogs in “All Blogs” page:**
 - User can interact with every blog ever posted by other users on the site.
- **Manage blogs in “My Blogs” page:**
 - User can SEE, CREATE, EDIT or DELETE their blogs.
- **Reach out to Admin from “Contact Us” page:**
 - Users can write a message or give feedback to the admin via the contact us page.

From an end-user perspective, the Blogging Site project consists of following functions/ sections:

- **Registration**
- **Login**
- **Explore all blogs**
- **Manage my blogs**
- **Contact Admin**
- **Search blogs by blog title or user using Search bar**
- **Logout**

3.2 Database design

Table 01 - Users

Users	
_id	ObjectId
name	String
mob	Number
email	String
password	String

Table 02 - Categories

Categories	
_id	ObjectId
name	String
description	String

Blogs	
_id	ObjectId
userId	ObjectId
categoryId	ObjectId
title	String
content	String
date	String

Table 03 - Blogs

Messages	
_id	ObjectId
senderName	String
senderEmail	String
date	String
content	String

Table 04 - Messages

3.3 ER Diagram

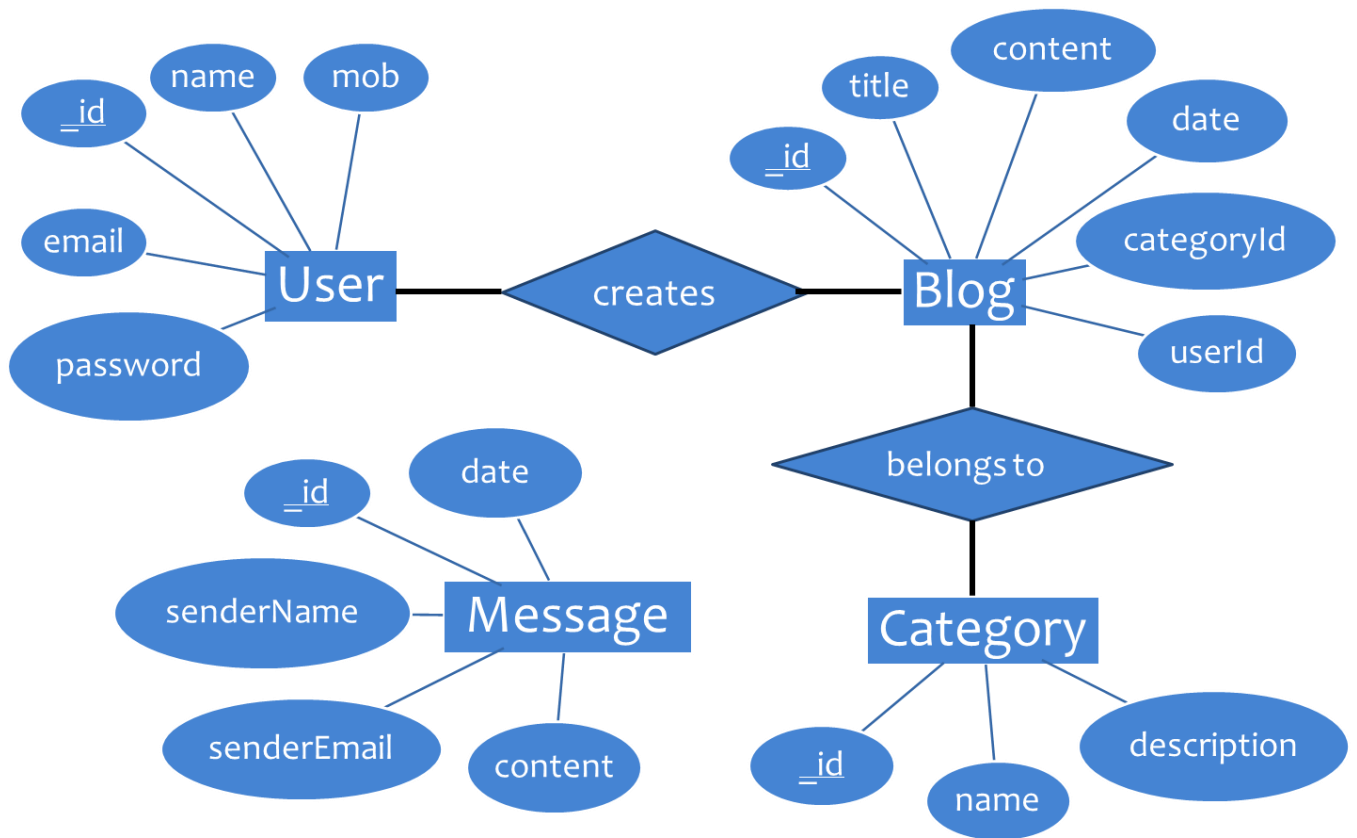


Fig.03 - ER Diagram

3.4 Flow Diagram

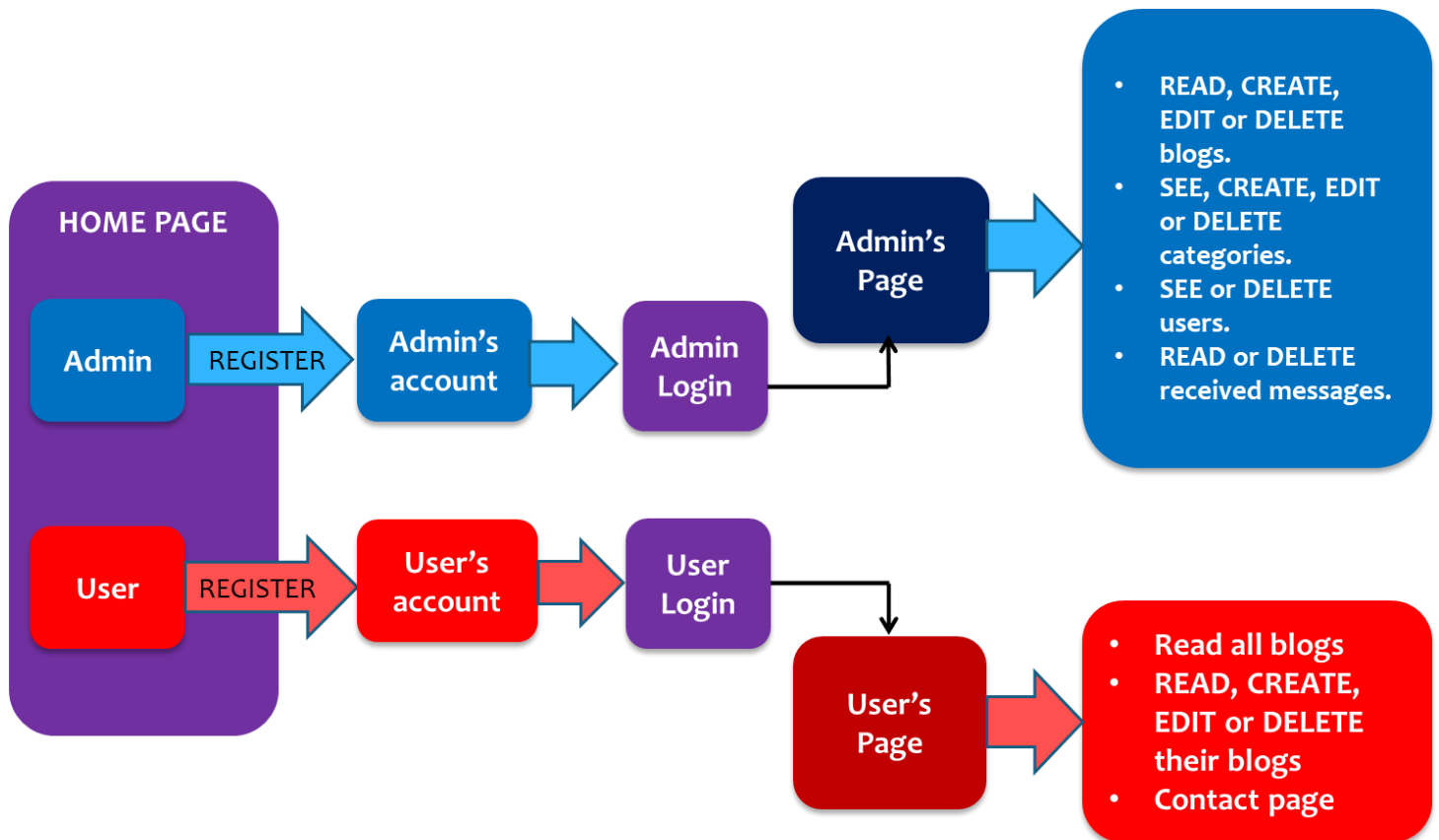


Fig. 04 - Flow diagram

Chapter 4: Final Analysis and Design

4.1 Software Development

Phase 1: Gathering and analyzing requirements

During this phase, all the relevant information is collected from the customer to develop a product as per their expectation. Any ambiguities must be resolved in this phase only.

Phase 2: Designing

In this phase the system and software design documents are created based on the requirement definition document. This helps in the overall system architecture definition. Any reference website or template can also be used to ensure a high-quality design. This helps in visualizing the requirements and providing the website of our choices.

Phase 3 Coding

Developers build the entire system in this phase by coding in the programming language of choice.

Phase 4: Testing

Once the software has been completed it will be deployed in the testing environment. The testing team will then test the full system's functionality. This is done to ensure that the application functions as expected. If QA and testing teams discover any defects or faults they will report to the developers. The development team will make some changes and re-test it with QA. This procedure is repeated until the software is stable, bug-free, and meets our business requirements.

Phase 5: Installation/Deployment

Once the testing phase is over and no bugs or errors are left in the system then the deployment process starts.

Phase 6: Maintenance

After the deployment of the product on the production environment, if anything needs to be fixed or any enhancement is to be done is taken care by the developers.

4.2 Results (Application Screenshots)

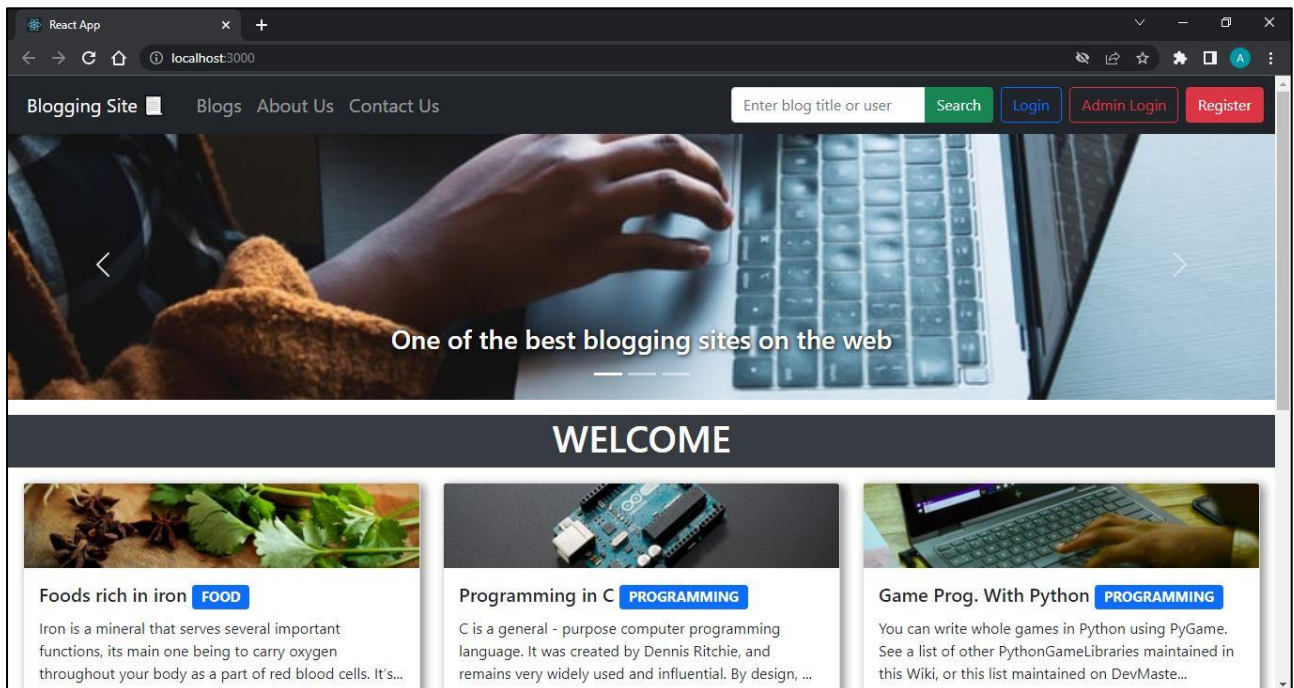


Fig. 05 - Home page

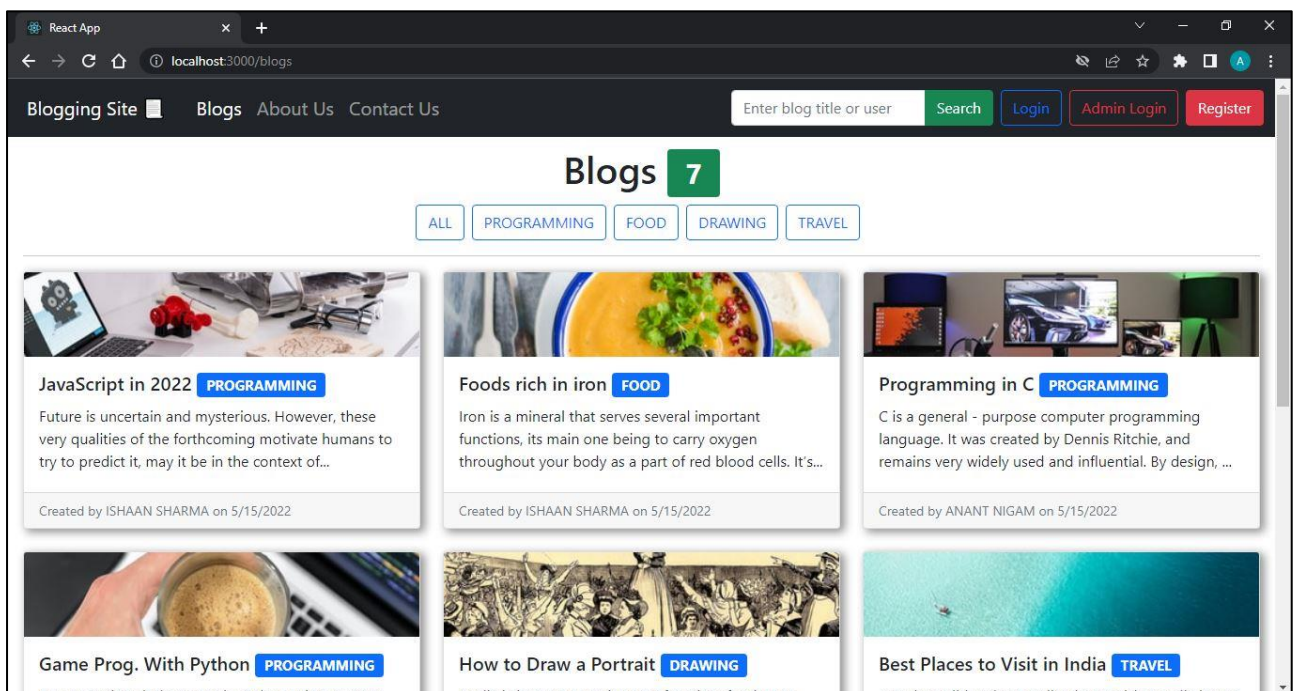


Fig. 06 - Blogs page

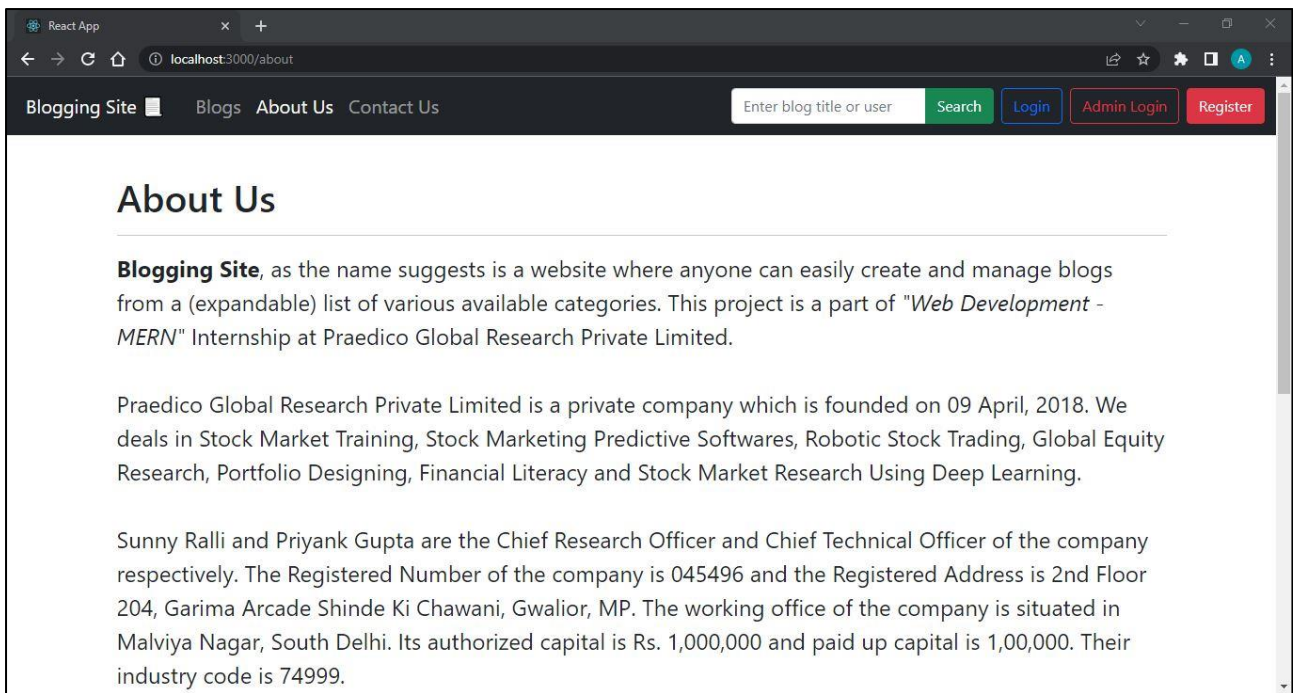


Fig. 07 - About page

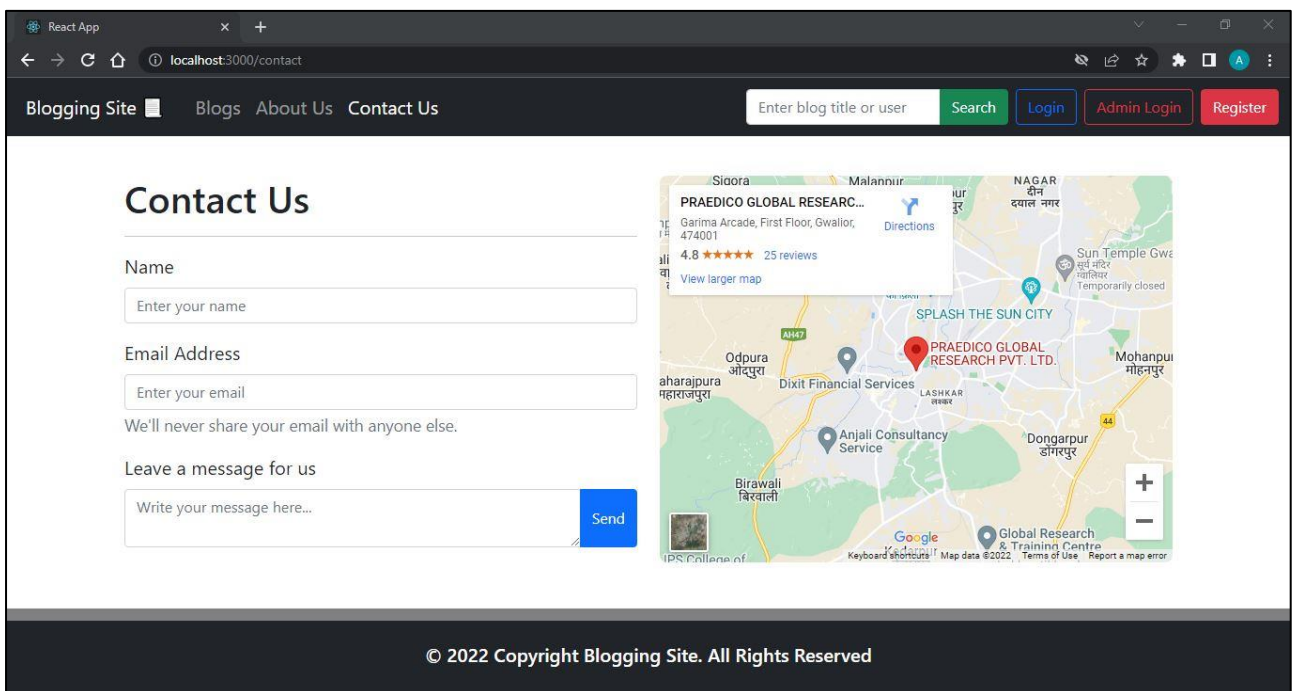


Fig. 08 - Contact page

React App

localhost:3000

Bloggng Site

Blogs

Registration

Name

Enter your name

Mobile No.

Enter you mobile no.

Email Address

Enter your email

Create Password

Password

Confirm Password

Password

Submit

Foods rich in iron

FOOD

Iron is a mineral that serves several functions, its main one being to carry oxygen throughout your body as a part of red blood cells. It's...

Programming in Python

PROGRAMMING

games in Python using PyGame. See a list of other PythonGameLibraries maintained in this Wiki, or this list maintained on DevMaste...

Fig. 09 - User registration form

React App

localhost:3000

Bloggng Site

Blogs

About Us

Contact Us

Enter blog title or user

Search

Login

Admin Login

Register

Login

Forgot Password?

Email Address

Enter email

Password

Enter password

Foods rich in iron

FOOD

Iron is a mineral that serves several important functions, its main one being to carry oxygen throughout your body as a part of red blood cells. It's...

Programming in C

PROGRAMMING

C is a general - purpose computer programming language. It was created by Dennis Ritchie, and remains very widely used and influential. By design, ...

Game Prog. With Python

PROGRAMMING

You can write whole games in Python using PyGame. See a list of other PythonGameLibraries maintained in this Wiki, or this list maintained on DevMaste...

Fig. 10 - Login form

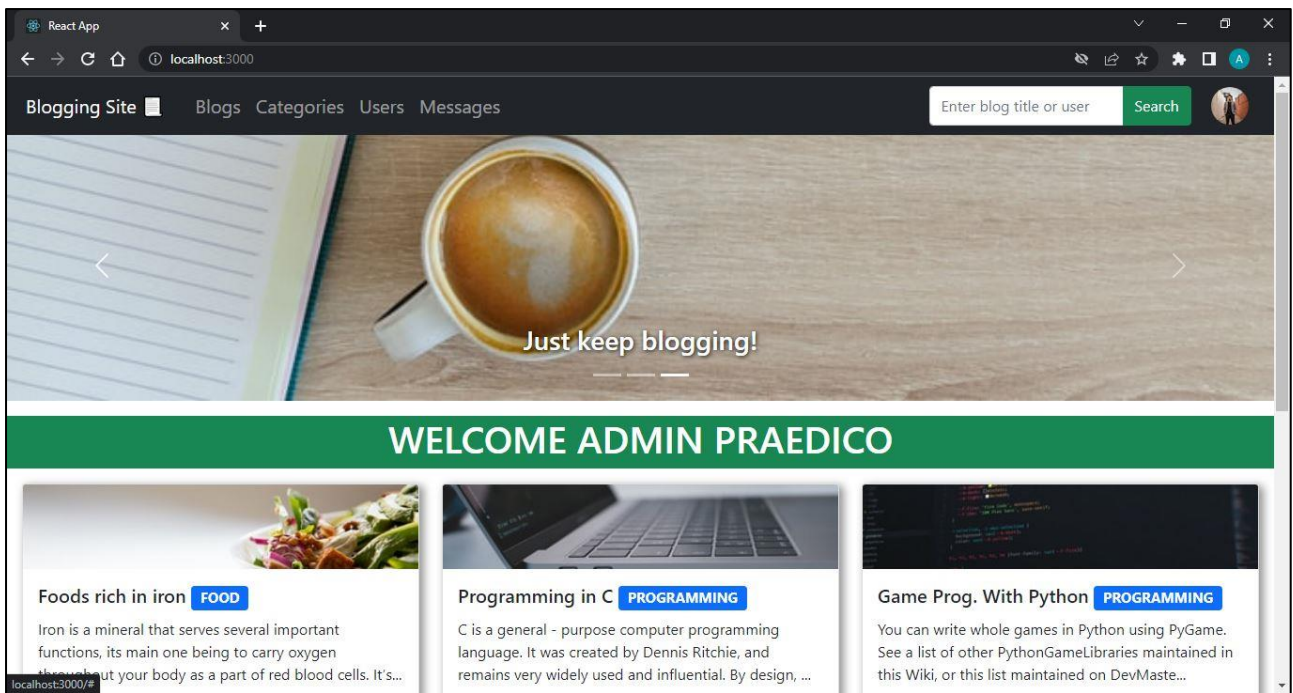


Fig. 11 - Admin dashboard

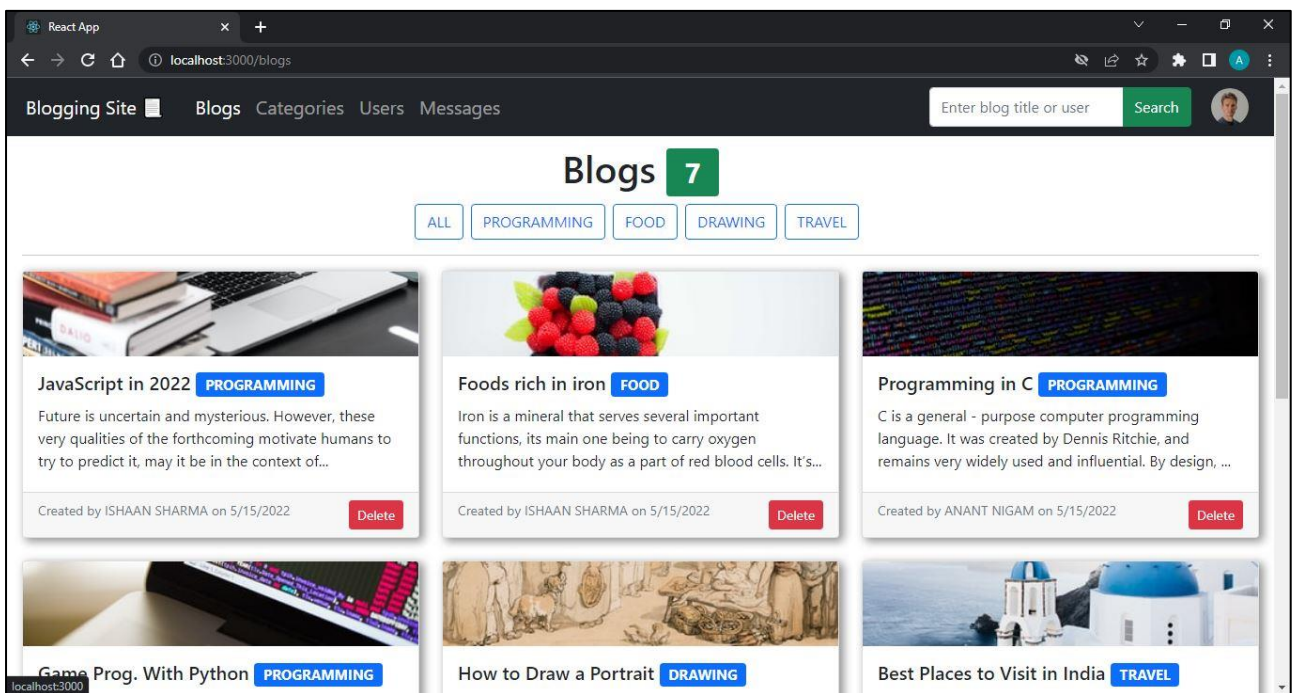


Fig. 12 - Blogs page (Admin)

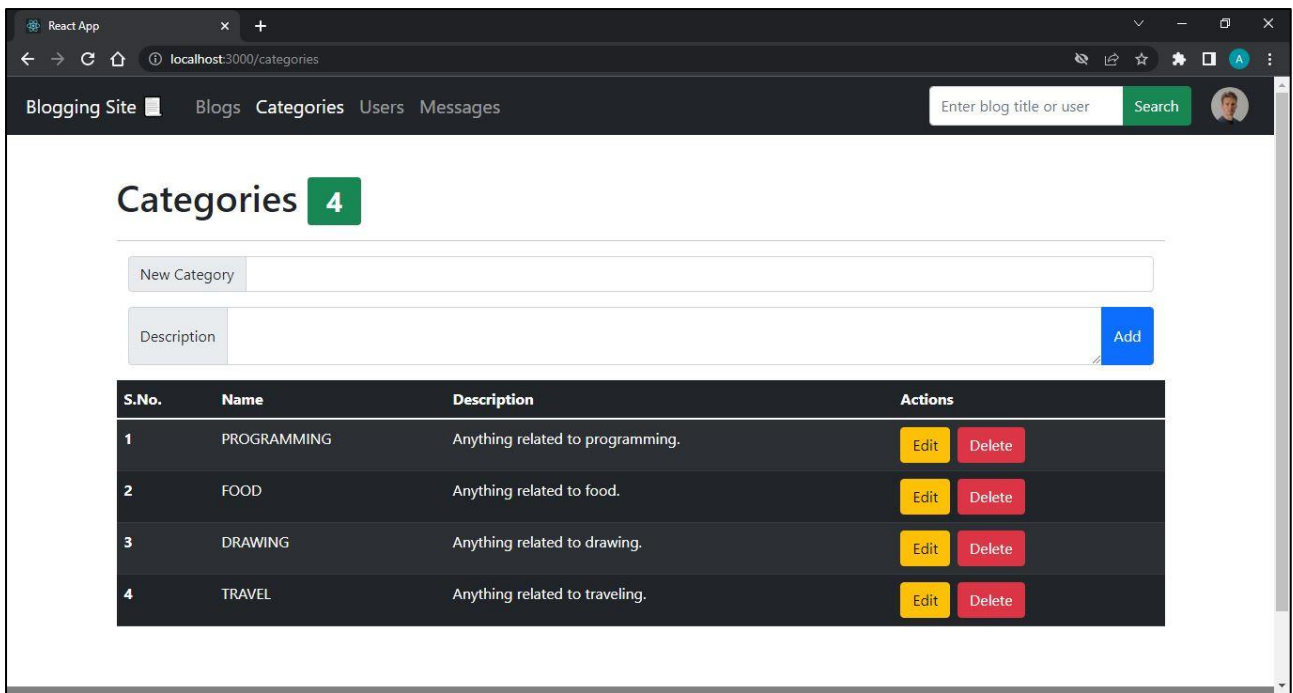


Fig. 13 - Categories page (Admin)

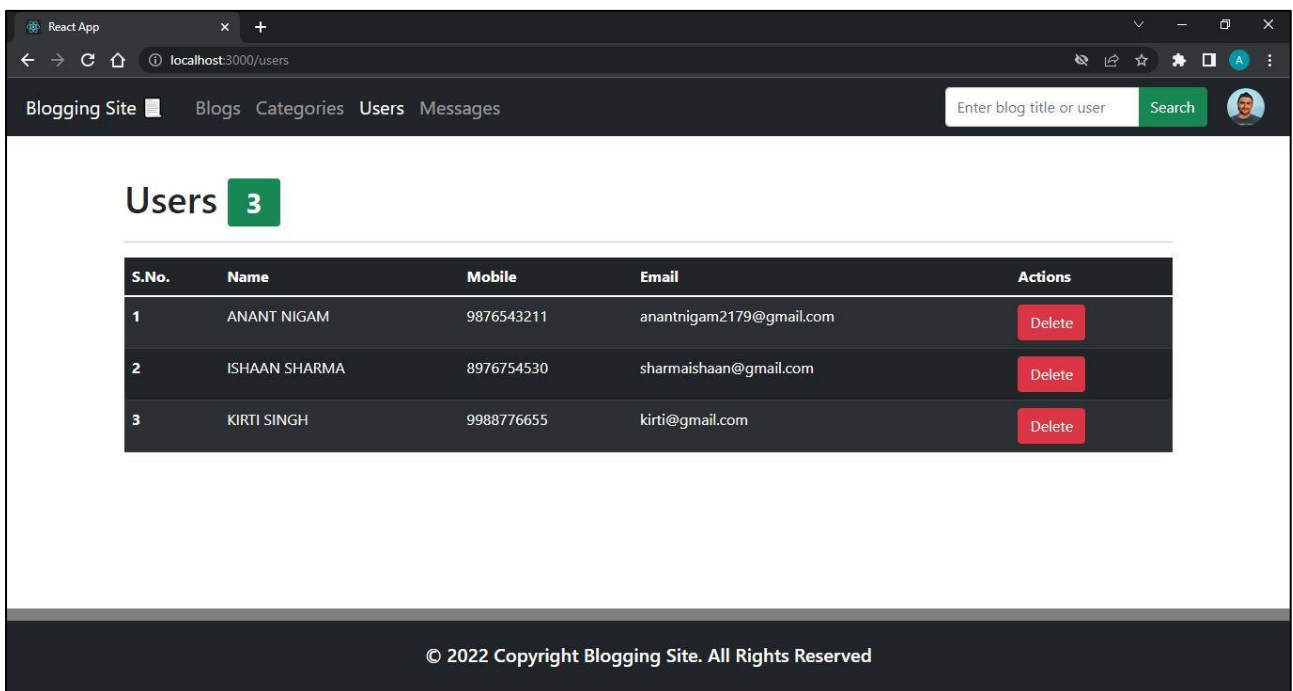


Fig. 14 - Users page (Admin)

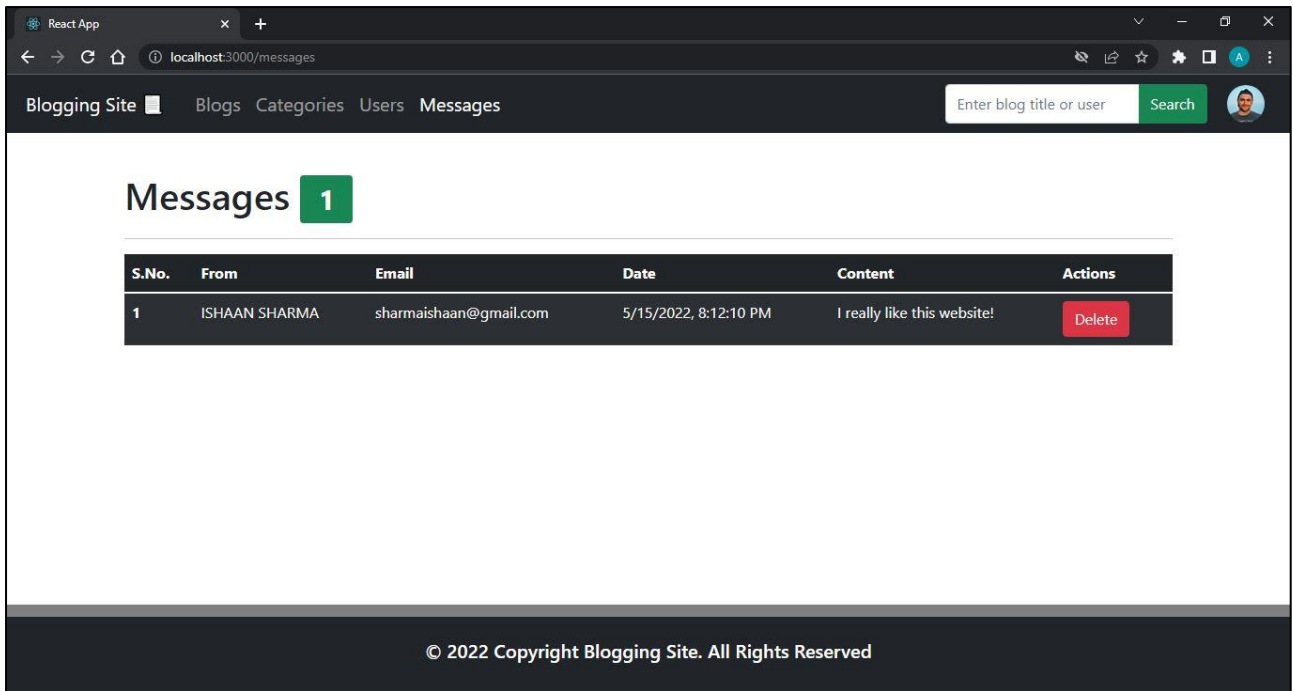


Fig. 15 - Messages page (Admin)

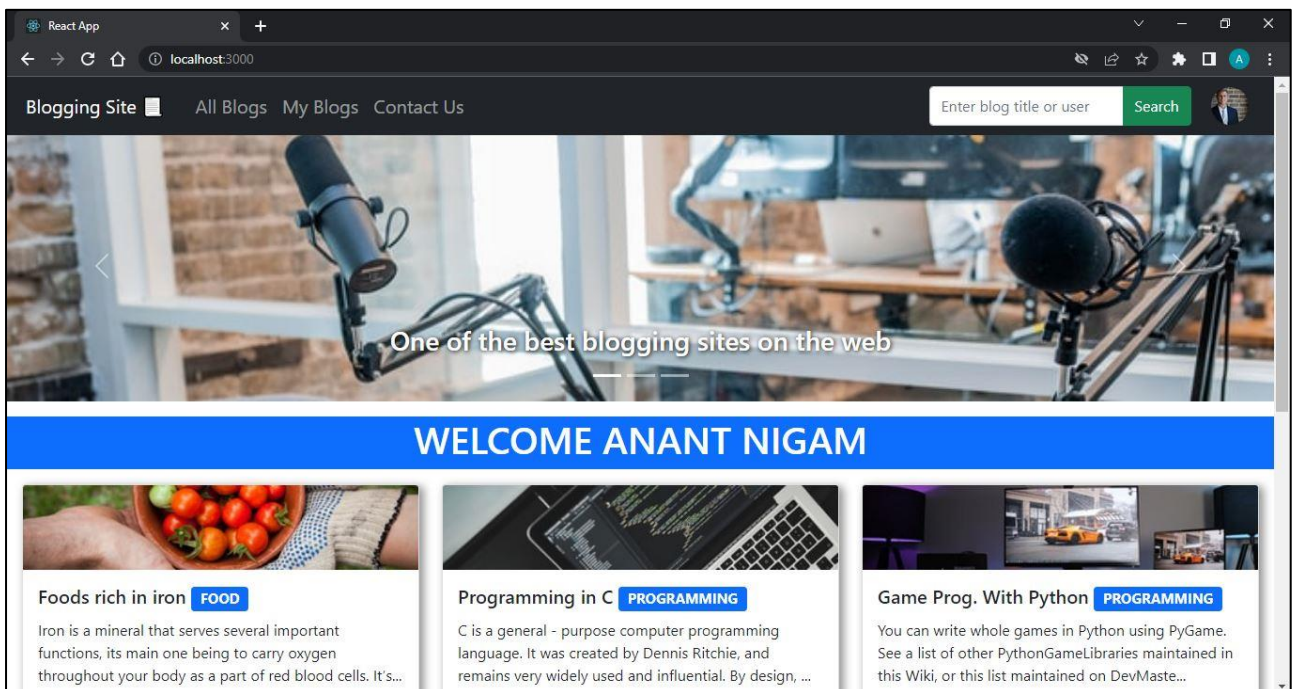


Fig. 16 - User dashboard

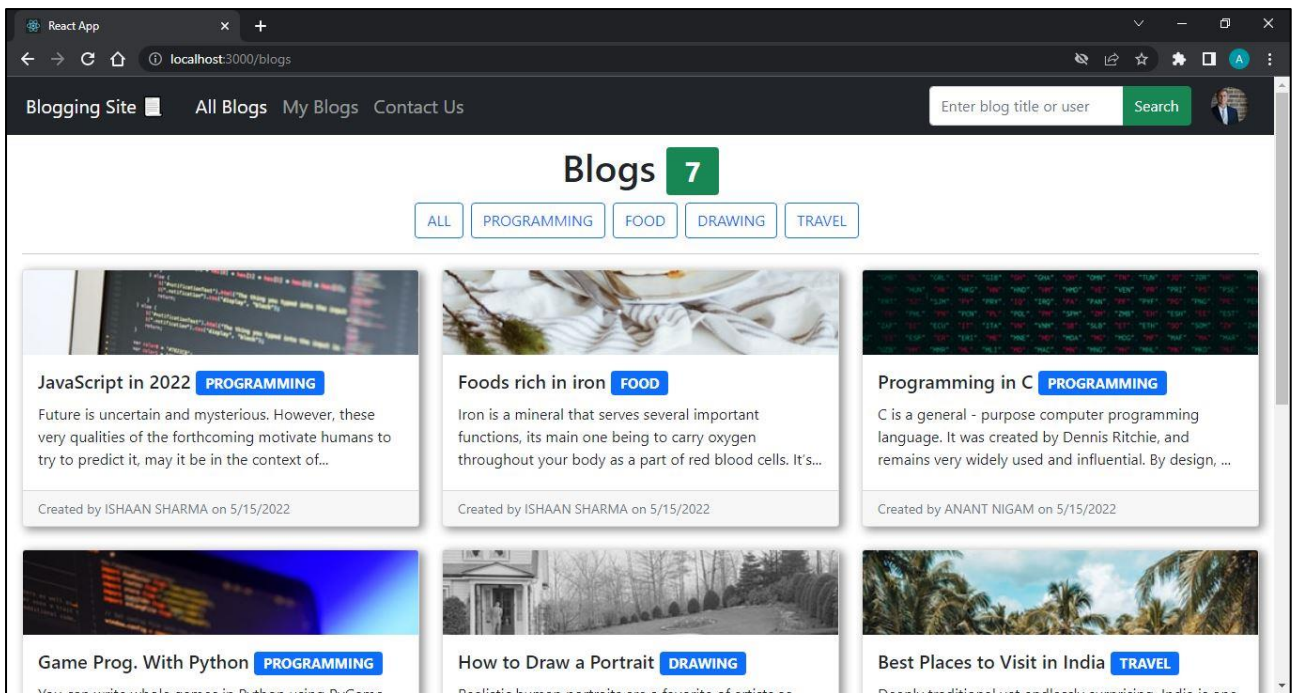


Fig. 17 - All blogs page (User)

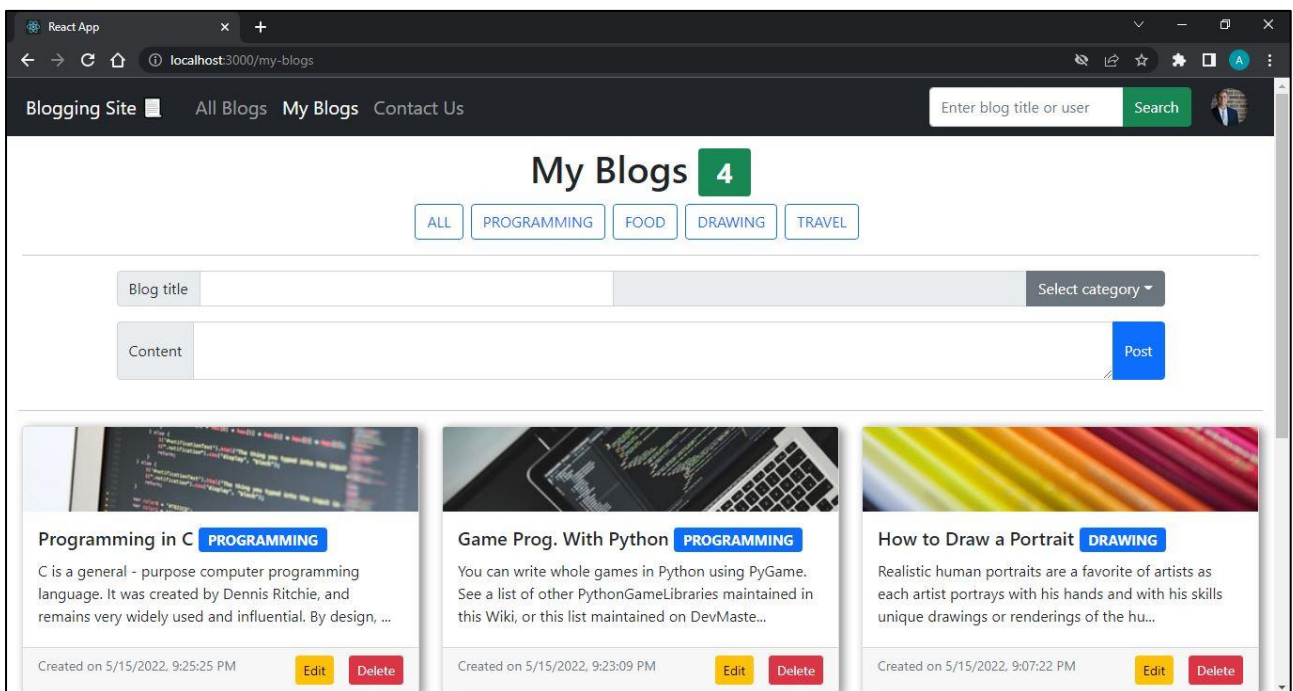


Fig. 18 - My blogs page (User)

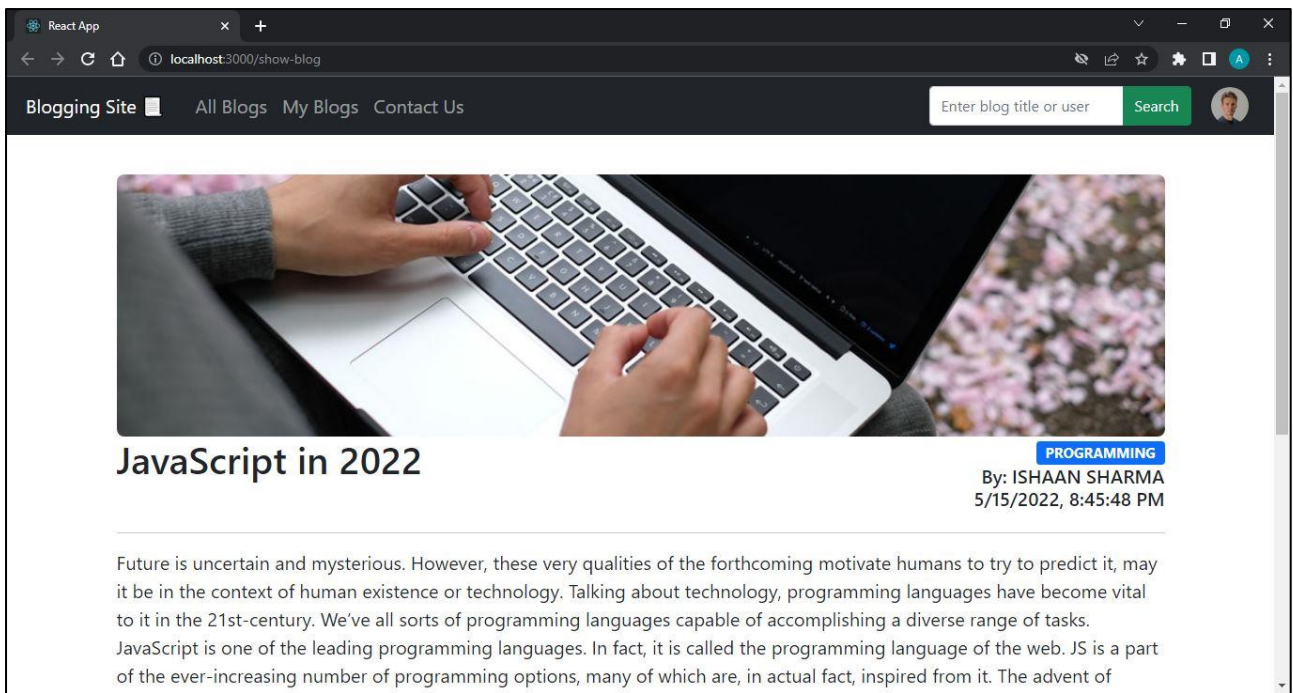


Fig. 19 - Reading a blog

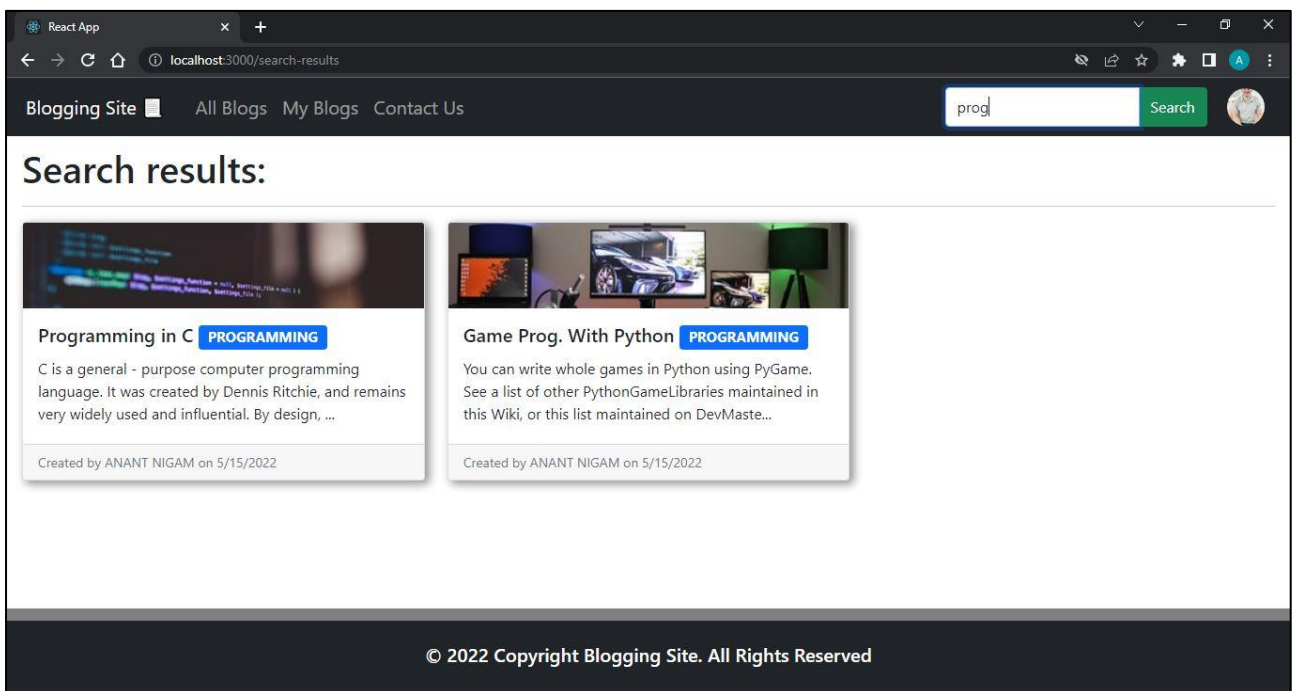


Fig. 20 - Searching a blog

4.3 Future Enhancements

This project was created to meet the need for a common blogging platform for educational purposes. However, there is plenty of room to improve the Blogging Site's performance in areas such as user interface, database performance, and query processing time, among others. The proposed system's goal is to create a system with improved facilities.

The following are possible future enhancements to the project:

- Like button and like count feature on blogs.
- Feature to block user/s.
- Feature to restrict certain blogs that do not meet community guidelines.
- Creation of a mobile application that can run on a variety of operating systems and devices.
- Data protection.
- Improved customer service.

4.4 Conclusion

The “Blogging Site” project has been successfully designed and tested. The presence of every module has been reasoned out and placed carefully thus contributing to the best working of the unit. So, now the end result is a fully working blogging website that can be integrated with another website or work stand-alone.

Using the website users can create a new account with their personal details and start creating blogs right away. It also provides users with many features to manage their blogs and many more features for the admin to manage everything on the website.

This internship program has offered me a great opportunity to grow and develop. It has propelled me to be able to overcome challenges and develop my career. The program has enhanced my critical thinking, technical and analytical skills as well as improved my ability to work in a corporate environment.

REFERENCES

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- <https://nodejs.org/en/>
- <https://expressjs.com/>
- <https://www.mongodb.com/>
- <https://jwt.io/>
- <https://nodemailer.com/about/>

Appendices

FRP 1:

<u>FORMAT</u>					
<u>FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR</u>					
Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Pragedico Global Research		Date/Duration	DD/MM/YR - DD/MM/YR 10/01/22 - 31/01/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work			✓		
Comment on nature of work done/Area/Topic	HTML CSS JS Done				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Rushkar Gayal				
<u>Signature of Industry Mentor</u>	Rushkar				

Receiving Date		Name of Faculty Mentor		Sign	
----------------	--	------------------------	--	------	--

FRP 2:**FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Pranedito Global Research		Date/Duration	01/02/22-15/02/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation			✓		
Performance/Quality of work			✓		
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	DBMS, SQL, React basics				
OVERALL GRADE (Any one)	✓ POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT				
Name of Industry Mentor	Pushkar Goyal				
Signature of Industry Mentor	<u>Pushkar</u>				

Receiving Date		Name of Faculty Mentor		Sign	
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FRP 3:**FORMAT****FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Praedico Global Research		Date/Duration	16/02/22-28/02/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work				✓	
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work				✓	
Sincerity/Hard work				✓	
Comment on nature of work done/Area/Topic	React continued				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Pushkar Goyal				
<u>Signature of Industry Mentor</u>	Pushkar				

Receiving Date		Name of Faculty Mentor		Sign	
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FRP 4:**FORMAT****FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Praedico Global Research		Date/Duration	01/03/22-15/03/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	MongoDB, Node.js				
<u>OVERALL GRADE (Any one)</u>	<u>✓</u> <u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Pushkar Goyal				
<u>Signature of Industry Mentor</u>	Pushkar				

Receiving Date		Name of Faculty Mentor		Sign	
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FRP 5:**FORMAT****FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Praedica Global Research		Date/Duration	16/03/22-31/03/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Express.js				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Pushkar Goyal				
<u>Signature of Industry Mentor</u>	Pushkar				

Receiving Date		Name of Faculty Mentor		Sign	
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FRP 6:**FORMAT****FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Praedico Global Research		Date/Duration	01/04/22-15/04/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation				✓	
Performance/Quality of work				✓	
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Blogging Site (MERN Project): Planning and designing				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Rushkar Goyal				
<u>Signature of Industry Mentor</u>	Rushkar				

Receiving Date		Name of Faculty Mentor		Sign	
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FRP 7:**FORMAT****FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Pragedico Global Research		Date/Duration	16/04/22-30/04/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Blogging Site (MERN Project): Backend				
<u>OVERALL GRADE (Any one)</u>	✓ <u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Rushkan Goyal				
<u>Signature of Industry Mentor</u>	Rushkan				

Receiving Date		Name of Faculty Mentor		Sign	
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FRP 8:**FORMAT****FORTNIGHTLY PROGRESS REPORT (FPR) FROM INDUSTRY MENTOR**

Name of student	Anant Nigam		Department	CSE	
Industry/Organization	Pradice Global Research		Date/Duration	01/05/22-10/05/22	
Criterion	Poor	Average	Good	Very Good	Excellent
Punctuality/Timely completion of assigned work					✓
Learning capacity/Knowledge up gradation					✓
Performance/Quality of work					✓
Behaviour/Discipline/Team work					✓
Sincerity/Hard work					✓
Comment on nature of work done/Area/Topic	Blogging Site (MERN Project): Frontend				
<u>OVERALL GRADE (Any one)</u>	<u>POOR/AVERAGE/GOOD/VERY GOOD/EXCELLENT</u>				
<u>Name of Industry Mentor</u>	Rushkar Goyal				
<u>Signature of Industry Mentor</u>	Rushkar				

Receiving Date		Name of Faculty Mentor		Sign	
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