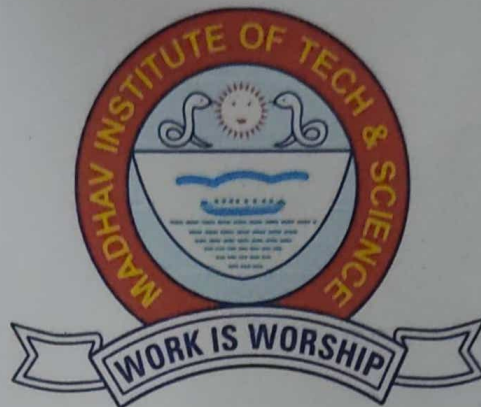


MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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



Project Report

on

Magical Spells

Submitted By:

Rounak Joshi

0901CS191101

Sakshi Sahu

0901CS191105

Faculty Mentor:

Dr. Anjula Mehto

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



Project Report

on

Magical Spells

A project report submitted in partial fulfillment for the degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted By:

Rounak Joshi

0901CS191101

Sakshi Sahu

0901CS191105

Faculty Mentor:

Dr. Anjula Mehto

Assistant Professor, Computer Science and Engineering

Submitted to:

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE

GWALIOR - 474005 (MP) est. 1957

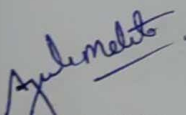
MAY-JUNE 20

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

CERTIFICATE

This is certified that **Rounak Joshi** (0901CS191101) has submitted the project report titled **Magical Spells** under the mentorship of **Dr. Anjula Mehto**, 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. Anjula Mehto

Faculty Mentor

Assistant Professor

Computer Science and Engineering



Dr. Manish Dixit
Professor & HOD
Department of CSE
M.I.T.S. Gwalior

Dr. Manish Dixit

Professor and Head,

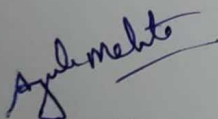
Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

CERTIFICATE

This is certified that **Sakshi Sahu** (0901CS191105) has submitted the project report titled **Magical Spells** under the mentorship of **Dr. Anjula Mehto**, in partial fulfillment 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.

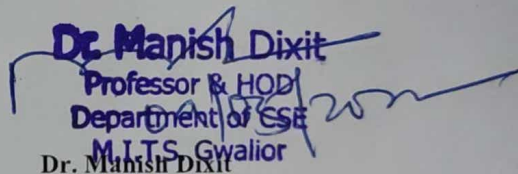


Dr. Anjula Mehto

Faculty Mentor

Assistant Professor

Computer Science and Engineering



Dr. Manish Dixit
Professor & HOD
Department of CSE
M.I.T.S. Gwalior

Dr. Manish Dixit

Professor and Head,

Computer Science and Engineering

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

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

DECLARATION

We hereby declare that the work being presented in this project report, for the partial fulfilment of requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering at Madhav Institute of Technology & Science, Gwalior is an authenticated and original record of our work under the mentorship of **Dr. Anjula Mehto, Assistant Professor, Computer Science & Engineering.**

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

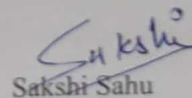


Rounak Joshi

0901CS191101

III Year,

Computer Science and Engineering




Sakshi Sahu

0901CS191105

III Year,

Computer Science and Engineering



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

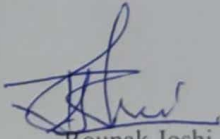
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to our career. We are thankful to our institute, **Madhav Institute of Technology and Science** to allow us to continue our disciplinary/interdisciplinary project 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. We extend our gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

We would sincerely like to thank our department, **Department of Computer Science and Engineering**, for **allowing** us to explore this project. We 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.

We are sincerely thankful to our faculty mentors. We are grateful to the guidance of **Dr. Anjula Mehto**, Assistant Professor, Computer Science & Engineering, for his continued support and guidance throughout the project. We are also very thankful to the faculty and staff of the department.

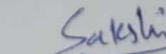


Rounak Joshi

0901CS191101

III Year,

Computer Science and Engineering



Sakshi Sahu

0901CS191105

III Year,

Computer Science and Engineering

ABSTRACT

The craze of reading is now becoming popular and "Magical Spells" is one such blogging website that allows you to read the published blogs online based on that one can prefer to read the whole book to enhance their knowledge.

On the website, there is a blogging section in which the user can read the blog and that blog may contain snippet of some book, reading that blog may increase the eagerness within user to read the whole book . The blog can be edited or published by the administrator. The login section is also included to access the blogging page for the admin to make any changes. Other user could also comment on the specific post they like. Also the admin can also see the number of times the blog is visited.

So basically, the idea of blogging will attract the users to our website and out of curiosity to read the blog will bring the traffic back to our website and will allow more users to access the website

Keyword:

Reading, Knowledge, Blog, Book, Administrator, Comments

सार:

पढ़ने का क्रेज अब लोकप्रिय हो रहा है और "Magical Spells" एक ऐसी ब्लॉगिंग वेबसाइट है जो आपको प्रकाशित ब्लॉगों को ऑनलाइन पढ़ने की अनुमति देती है, जिसके आधार पर कोई भी अपने ज्ञान को बढ़ाने के लिए पूरी किताब को पढ़ना पसंद कर सकता है।

वेबसाइट पर, एक ब्लॉगिंग अनुभाग है जिसमें उपयोगकर्ता ब्लॉग पढ़ सकता है और उस ब्लॉग में किसी पुस्तक का स्निपेट हो सकता है, उस ब्लॉग को पढ़ने से उपयोगकर्ता के भीतर पूरी पुस्तक पढ़ने की उत्सुकता बढ़ सकती है। ब्लॉग को व्यवस्थापक द्वारा संपादित या प्रकाशित किया जा सकता है। व्यवस्थापक के लिए कोई भी परिवर्तन करने के लिए ब्लॉगिंग पृष्ठ तक पहुंचने के लिए लॉगिन अनुभाग भी शामिल है। अन्य उपयोगकर्ता अपनी पसंद की विशिष्ट पोस्ट पर भी टिप्पणी कर सकते हैं। साथ ही व्यवस्थापक यह भी देख सकता है कि ब्लॉग कितनी बार देखा गया है।

तो मूल रूप से, ब्लॉगिंग का विचार उपयोगकर्ताओं को हमारी वेबसाइट पर आकर्षित करेगा और ब्लॉग पढ़ने के लिए उत्सुकता से हमारी वेबसाइट पर ट्रैफिक वापस लाएगा और अधिक उपयोगकर्ताओं को वेबसाइट तक पहुंचने की अनुमति देगा।

TABLE OF CONTENTS

TITLE	PAGE NO.
CERTIFICATE.....	I
CERTIFICATE.....	II
DECLARATION.....	III
ACKNOWLEDGEMENT.....	IV
ABSTRACT.....	V
TABLE OF CONTENTS	VII
LIST OF FIGURES	I
CHAPTER 1: PROJECT OVERVIEW	1
1.1 INTRODUCTION	1
1.2 OBJECTIVE	1
1.3 PROJECT SCOPE	1
1.4 PROJECT FEATURES	2
1.5 FEASIBILITY	2
1.5.1 TECHNICAL FEASIBILITY	2
1.5.2 ECONOMIC FEASIBILITY	2
1.5.3 OPERATIONAL FEASIBILITY	3
1.5.4 LEGAL FEASIBILITY	3
1.6 SYSTEM REQUIREMENTS	3
1.6.1 WINDOWS.....	3
1.6.2 MAC	3
1.6.3 Linux	3
1.6.4 DEVELOPMENT	3
CHAPTER 2: LITERATURE REVIEW.....	4
2.1 QUANTITATIVE ANALYSIS.....	4
2.2 COMPETITOR ANALYSIS	4
2.3 NEIGHBORHOOD ANALYSIS.....	4
CHAPTER 3: PRELIMINARY DESIGN	5
3.1 HTML	5
3.1.1 WHY HTML?.....	5
DECLARATIVE.....	5
INTERNET-NAVIGATION	5
CUTTING EDGE FEATURE	5

RESPONSIVE IMAGE ON WEB PAGES	Error! Bookmark not defined.
CLIENT SIDE STORAGE	7
ADDITIONAL ADVANTAGES	6
3.1.2 CONCLUSION	6
3.2 PHP	6
3.2.1 WHY PHP	6
EXCELLENT COMBINABILITY WITH HTML	7
GOOD FLEXIBILITY	7
ADDITIONAL ADVANTAGES	7
3.3 TailwindCSS	8
3.3.1 Why TailwindCSS?	8
3.3.2 Advantages of TailwindCSS	8
3.4 MYSQL	9
3.4.1 Data Secutiy	9
3.4.2 On-Demand Scalability	9
3.4.3 High Performance	9
3.4.4 Flexibility Of Open Source	9
3.5 JavaScript	10
3.6 Architectural Design	11
3.6.1 Use Case Diagram	11
3.6.2 Database Design	12
CHAPTER 4: FINAL ANALYSIS AND DESIGN	13
4.1 FINAL WEB APPLICATION	13
4.1.1 LANDING PAGE	13
4.1.2 USER LOGIN PAGE	15
4.1.3 BLOG PUBLISH PAGE	16
4.1.4 ADMINISTRATOR LOGIN	17
4.1.5 CREATE POST PAGE	18
4.1.6 MANAGE USER PAGE	20
4.1.7 MANAGE TOPIC PAGE	22
4.1.8 MANAGE COMMENT PAGE	23
4.1.9 COMMENT SECTION	24
4.2 PROBLEMS FACED	26
4.2.1 SCALABILITY	26
4.2.2 USABILITY	26
4.2.3 MAINTAINABILITY	27

4.3 LIMITATIONS.....	27
4.3.1 HIERARCHICAL COMMENTS	27
CHAPTER 5: CONCLUSION AND FUTURE WORK.....	27
5.1 Conclusion	27
5.2 Future Work.....	27
 REFERENCES.....	 30

LIST OF FIGURES

Figure No	Page No.
Figure 3.1 javascript	10
Figure 3.2 UseCase	11
Figure 3.3 Database	
Error! Bookmark not defined.	
Figure 4.1 Landing Page	14
Figure 4.2 Landing Page	14
Figure 4.3 User Login Page	15
Figure 4.4 User Registration Page	16
Figure 4.5 Publish Blog Page	17
Figure 4.6 Admin Login Page	18
Figure 4.7 Bar-Chart of Admin	19
Figure 4.8 Create Post Page	19
Figure 4.9 Add Content Page	20
Figure 4.10 All Post Page	21
Figure 4.11 Add User Page	21
Figure 4.12 Show All User Page	22
Figure 4.13 Add Topic Page	23
Figure 4.14 All Comment Page	24
Figure 4.14 Comment Section	25

CHAPTER 1: PROJECT OVERVIEW

1.1 Introduction

In the generation of digital technology, e-books have gained enough popularity , people usually prefers e-books over hard copy due to its easy availability. So the website will provide users the ability to read the blogs of various books online.

Along with that by reading the blogs, one will have the advantage of reading the book's inside part and on that basis they can decide whether to read the whole book or not. So overall its helpful to develop the interest in the book preferred on the basis of blog posts.

1.2 Objective

1. An interface is for the authentication of a user as well as administrator, where the user can Register and Log in so that admin can manage the user on his website.
2. A Webpage is required to create, edit and delete the blog based on the topic, by the administrator.
3. A Webpage is required where the user can read the blog, based on topic.
4. A Search Page is required ,where the user can search the blog of his interest.
5. Administrator Analysis Page is required where the admin, can see the number of registered user as well as number of blogs.

1.3 Project Scope

In the generation of digital technology, e-books have gained enough popularity , people usually prefer e-books over hard copy due to its easy availability. So the website will provide users the ability to read the blogs of various books online. Along with that by reading the blogs, one will have the advantage of reading the book's inside part and on that basis they can decide whether to read the whole book or not. So overall its helpful to develop the interest in the book preferred on the basis of blog posts.

In other way, for users, its time efficient as they can indirectly select a particular book by just reading the stanza, it will give them quite clear idea to continue to read a particular book or not.

Overall the website is all good for its users as well as for the developer as the amount of crowd on the website will lead to gain enough popularity of a particular book and therefore will increase the purchase of that book.

In a nutshell, it can be said that this idea of blogging can lead to various opportunities in the future, for the users, for increasing the sell of the products and for the advertisement purpose..

1.4 Project Features

Following are the Feature's of Magical Spells:-

- 1) User friendliness.
- 2) Administrator can manage the users/traffic of the website.
- 3) Authentication System for Privacy and Security.
- 4) Administrator can publish post on the website.
- 5) Administrator can manage topics on the website.
- 6) Users can see the published post available on the website.
- 7) To increase the popularity of the website among the user via blogging feature.
- 8) User can comment of the post they like.
- 9) Admin can see the number of views in the blog.

1.5 Feasibility

1.5.1 Technical Feasibility

With the team of two member, we have the technical team capable of converting the ideas into working systems. Furthermore, we have the necessary system configurations required for the development of the proposed system.

1.5.2 Economic Feasibility

In the Economic Feasibility study, the cost and benefit of the project are analysed. This means under this feasibility study a detailed analysis is carried out of what will be the cost of the project for development which includes all required costs for final development like hardware and software resources required, design and development cost and operational cost and so on. After that, it is analysed whether the project will be beneficial in terms of finance for the organization or not.

The project has low economical constraint as we only need to deploy it and maintain the server. Since, no data is going to be fetched and no other additional connections are not required.

1.5.3 Operational Feasibility

In operational feasibility the degree of providing service to requirements is analyzed along with how easy the product will be to operate and maintain after deployment. Along with the other operations scopes are determining usability of product. Determining suggested solution by software development team is acceptable or not etc.

The project is feasible in terms of operation as it can be implemented anywhere with internet connectivity and system to process.

1.5.4 Legal Feasibility

In Legal Feasibility study project is analysed from a legal point of view. This includes analysing barriers of legal implementation of project, data protection acts or social media laws, project certificate, license, copyright etc. Overall, it can be said that Legal Feasibility Study is a study to know if proposed project conforms to legal and ethical requirements. The project is feasible legally.

1.6 System Requirements

1.6.1 Windows

- Windows 7, Windows 8, Windows 8.1, Windows 10 or later.
- An Intel Pentium 4 processor or later that's SSE3 capable.

1.6.2 MAC

- OS X EL Capitan 10.11 or later

1.6.3 Linux

- 64-bit Ubuntu 18.04+, Debian 10+, openSUSE 15.2+, or Fedora Linux 32+
- An Intel Pentium 4 processor or later that's SSE3 capable.

1.6.4 Development

- **OS:** Windows 10 or later
- **Processor:** An Intel i3 or Equivalent AMD processor
- **Graphics:** Not required
- **RAM:** 8GB
- **SSD:** 128GB
- **HDD:** 512GB

CHAPTER 2: LITERATURE REVIEW

2.1 Quantitative Analysis

While in the past site selection may have been based on intuition, a wide spectrum of techniques is used for site selection and potential and current market study. This may include content analysis, possible revenue model, potential competition and growth, or simply checklists. One of the most effective and comprehensive techniques used today is Search Engine Optimization (SEO). Quantitative research can be defined as any research that uses of numbers as the basis for evaluating data.

With the increasing growth and global usage of CSS Tailwind Framework we choose it for developing our frontend. It has merits and demerits. Merits being easy to use, huge community for support, good documentation, and component-based UI design which is also reusable. And demerits being poor SEO compared to newly arrived frameworks, JSX as a barrier, and High pace of development.

Google trends¹ can be used to select which topics to cover, for initial development. And finding key differentiator from the present competitors. After the launch of initial deployment, we can further look to improve and resolve bugs.

2.2 Competitor Analysis

Competitor Analysis can help in better understanding the feasibility and competition in content creation. However, competitor can pose threat to the idea proposed by implementing similar concept. Early and properly staged development and maintenance with time-to-time update can keep a tight competition and with the increasing features, our web application will easily come to popularity.

Apart from just no. of clicks revenue collected also plays an important role in going competition scenario. So, despite of good content creation and delivery. We need to look for a proper revenue model, which can be subscription based or add based. For Add based model google ads² and facebook Ads³ can be used.

2.3 Neighborhood Analysis

The growing interest in reading a book is a key aspect in growth of the project. The future growth of the proposed web application can be predicted depending on the availability and need for the reading a life changing book. Which can be tracked from the global search patterns and analytics. With the increasing number of bibliophiles the project may get a great response, if it is easily accessible and meets all requirements.

CHAPTER 3: PRELIMINARY DESIGN

3.1 HTML

The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

3.1.1 Why HTML?

Declarative

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

- **Internet Navigation**

This is one of the most important uses of HTML, which is revolutionary. This navigation is possible by utilizing the concept of Hypertext. It is basically a text which refers to other web pages or text, and when the user clicks on it, would navigate to referenced text or page. HTML is heavily used to embed the hyperlink within the web pages.

- **Cutting Edge Feature**

HTML5, with its set of standards and API, is being used to introduce some of the latest trends in the website creation business. Like polyfill libraries, which are supported by old browsers equally well. Browser like Google Chrome is the perfect choice when it comes to implementing an HTML5 latest set of standards and APIs.

- **Responsive Image On Webpages**

At the elementary level in applications of HTML, queries can be set to utilize the images, which are responsive in nature. With the srcset attribute of img element in HTML and combining it with picture elements, a developer can fully control how the user will render an image.

- **Client-Side Storage**

Earlier, a user could not save the user's browser data that would persist across sessions. To meet this requirement, server-side infrastructure has to be built, or user's cookies can be used. But with HTML5, client-side storage is feasible using localStorage. These two strategies have their own standards and features. localStorage basically gives string-based hash-table storage.

- **Additional Advantages**

- Makes JavaScript coding easier
- Extremely competent
- Excellent cross-platform support
- Handles dependencies
- Template designing made easy
- Provides amazing developer tools
- UI focused designs
- Easy to adopt

3.1.2 Conclusion

Now that you're clear about the advantages and best practices of HTML, it should come as no surprise that most of the big and middle companies are leveraging HTML development services to design their website's user interfaces.

3.2 PHP

PHP(short for Hypertext PreProcessor) is the most widely used open source and general purpose server side scripting language used mainly in web development to create dynamic websites and applications. It was developed in 1994 by Rasmus Lerdorf. A survey by W3Tech shows that almost 79% of the websites in their data are developed using PHP. It is not only used to build the web apps of many tech giants like Facebook but is also used to build many CMS (Content Management System) like WordPress, Drupal, Shopify, WooCommerce etc.

3.2.1 Why PHP?

PHP can actually do anything related to server-side scripting or more popularly known as the backend of a website. For example, PHP can receive data from forms, generate dynamic page content, can work with databases, create sessions, send and receive cookies, send emails etc. There are also many hash functions

available in PHP to encrypt user's data that makes PHP secure and reliable to be used as a server-side scripting language. So these are some of the abilities of PHP that makes it suitable to be used as server-side scripting language. You will get to know more of these abilities in further tutorials.

- **Excellent Combinability With HTML**

PHP offers embedded HTML programming, which is the reason for the incredible synergy between these two technologies. In most cases, a PHP script does not interfere with the HTML code of a web page but instead completes it while remaining inside the borders defined by `<?php ?>` tags. And vice versa, if you have built a whole page on PHP, you may integrate an HTML code using a script. In this case, the difference from a traditional HTML page would be the inverted order of opening tags: the PHP tags would precede the HTML tags.

- **Good Flexibility**

Flexibility makes PHP able to effectively combine with many other programming languages so that the software product could use the most effective technology for each particular feature. Moreover, PHP is a cross-platform language, which means that developers may use any primary operating system – Windows, Linux, macOS – to perform coding. Such flexibility greatly facilitates the development process by making it faster and less expensive.

- **Additional Advantages:-**

- 1.) Platform Independent
- 2.) Open source and dynamic Library support
- 3.) Organized
- 4.) Database Connectivity
- 5.) Easy to understand and code

3.3 Tailwind CSS

Tailwind CSS can be used to make websites in the fastest and the easiest way.

Tailwind CSS is basically a utility-first CSS framework for rapidly building custom user interfaces. It is a highly customizable, low-level CSS framework that gives you all of the building blocks you need to build bespoke designs without any annoying opinionated styles you have to fight to override. The beauty of this thing called tailwind is it doesn't impose design specification or how your site should look like, you simply bring tiny components together to construct a user interface that is unique. What Tailwind simply does is take a 'raw' CSS file, processes this CSS file over a configuration file, and produces an output.

3.3.1 Why TailwindCSS?

- Faster UI building process.
- It is a utility-first CSS framework which means we can use utility classes to build custom designs without writing CSS as in traditional approach.

3.3.2 Advantages of Tailwind CSS

- No more silly names for CSS classes and Id's.
- Minimum lines of Code in CSS file.
- We can customize the designs to make the components.
- Makes the website responsive.
- Makes the changes in the desired manner.

CSS is global in nature and if make changes in file the property is changed all the HTML files linked to it. But with the help of Tailwind CSS we can use utility classes and make local changes.

3.4 MYSQL

3.4.1 Data Security

MySQL is globally renowned for being the most secure and reliable database management system used in popular web applications including WordPress, Drupal, Joomla, Facebook and Twitter. The data security and support for transactional processing that accompany the recent version of MySQL can greatly benefit any business, especially if it is an eCommerce business that involves frequent money transfers.

3.4.2 On-Demand Scalability

MySQL offers unmatched scalability to facilitate the management of deeply embedded apps using a smaller footprint, even in massive warehouses that stack terabytes of data. On-demand flexibility is the star feature of MySQL. This open-source solution allows complete customization to eCommerce businesses with unique database server requirements.

3.4.3 High Performance

MySQL features a distinct storage-engine framework that facilitates system administrators to configure the MySQL database server for a flawless performance. Whether it is an eCommerce website that receives a million queries every single day or a high-speed transactional processing system, MySQL is designed to meet even the most demanding applications while ensuring optimum speed, full-text indexes and unique memory caches for enhanced performance.

3.4.4 The Flexibility of Open Source

All the fears and worries that arise in an open-source solution can be brought to an end with MySQL's round-the-clock support and enterprise indemnification. The secure processing and trusted software of MySQL combine to provide effective transactions for large-volume projects. It makes maintenance, debugging and upgrades fast and easy while enhancing the end-user experience.

3.5 JavaScript

JavaScript is a scripting or programming language that allows you to implement complex features on web pages — every time a web page does more than just sit there and display static information for you to look at — displaying timely content updates, interactive maps, animated 2D/3D graphics, scrolling video jukeboxes, etc. — you can bet that JavaScript is probably involved. It is the third layer of the layer cake of standard web technologies, two of which (HTML and CSS) we have covered in much more detail in other parts of the Learning Area.

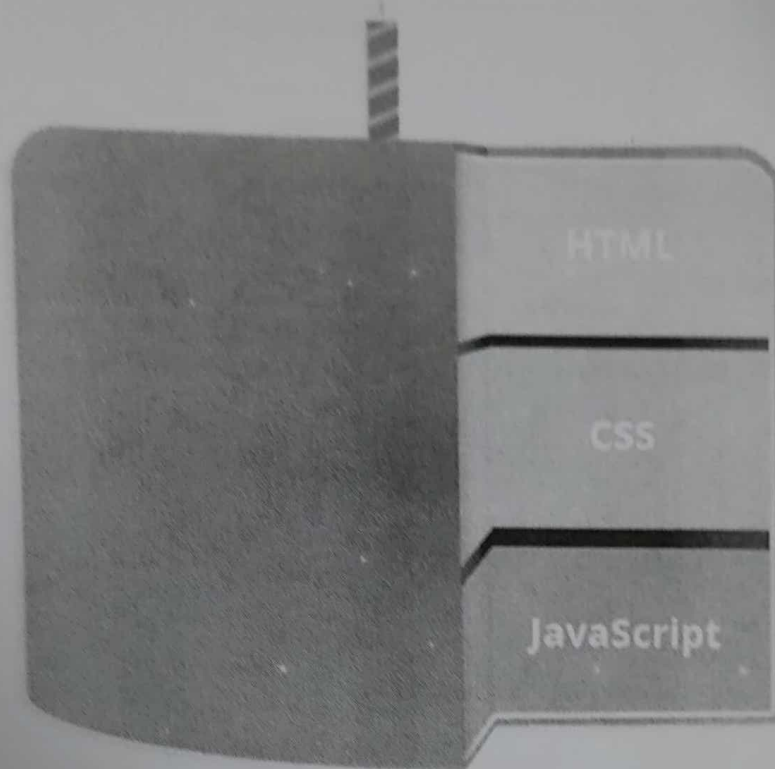


Figure 3.1 JavaScript

- HTML is the markup language that we use to structure and give meaning to our web content, for example defining paragraphs, headings, and data tables, or embedding images and videos in the page.
- CSS is a language of style rules that we use to apply styling to our HTML content, for example setting background colors and fonts, and laying out our content in multiple columns.
- JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else. (Okay, not everything, but it is amazing what you can achieve with a few lines of JavaScript code.)

3.6 Architectural Design

3.6.1 Use Case Diagram

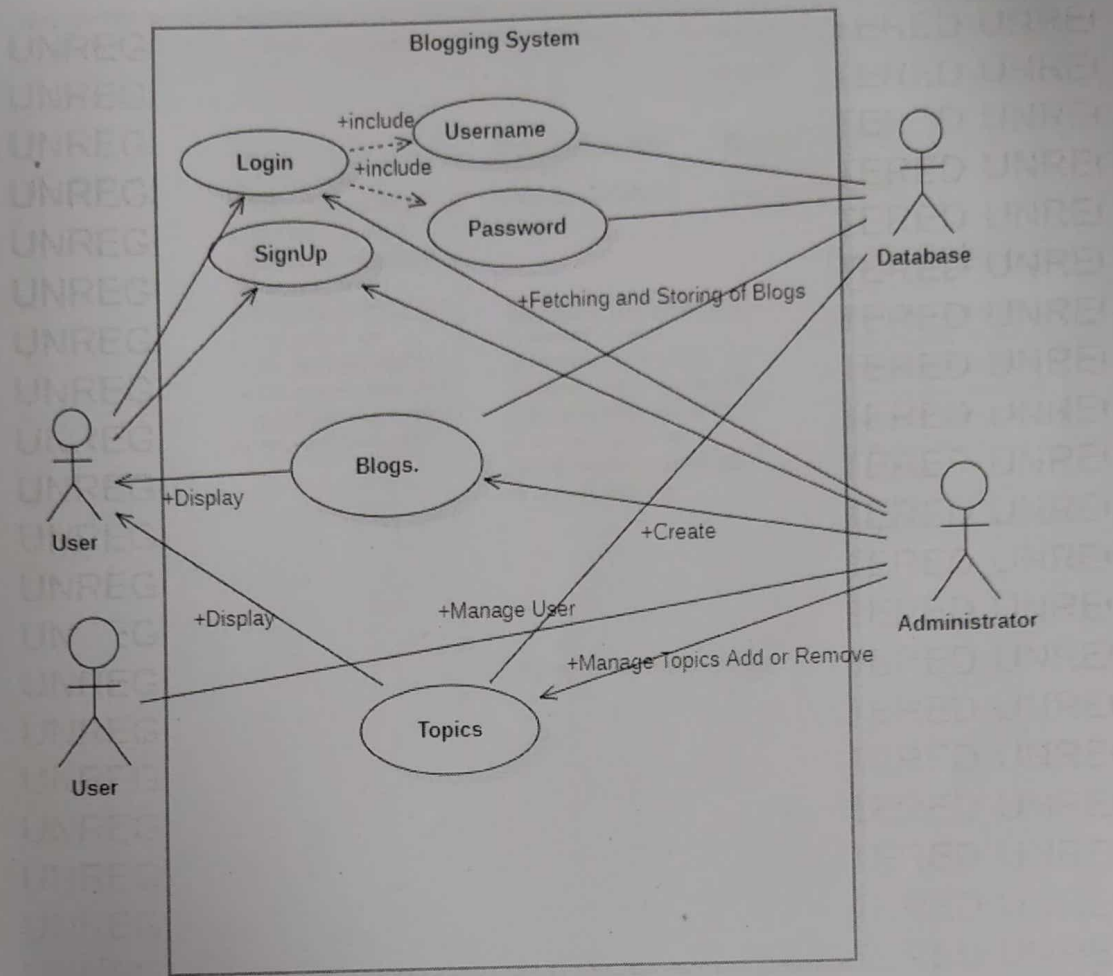


Figure 3.2 Use Case Diagram

3.6.2 Database Design

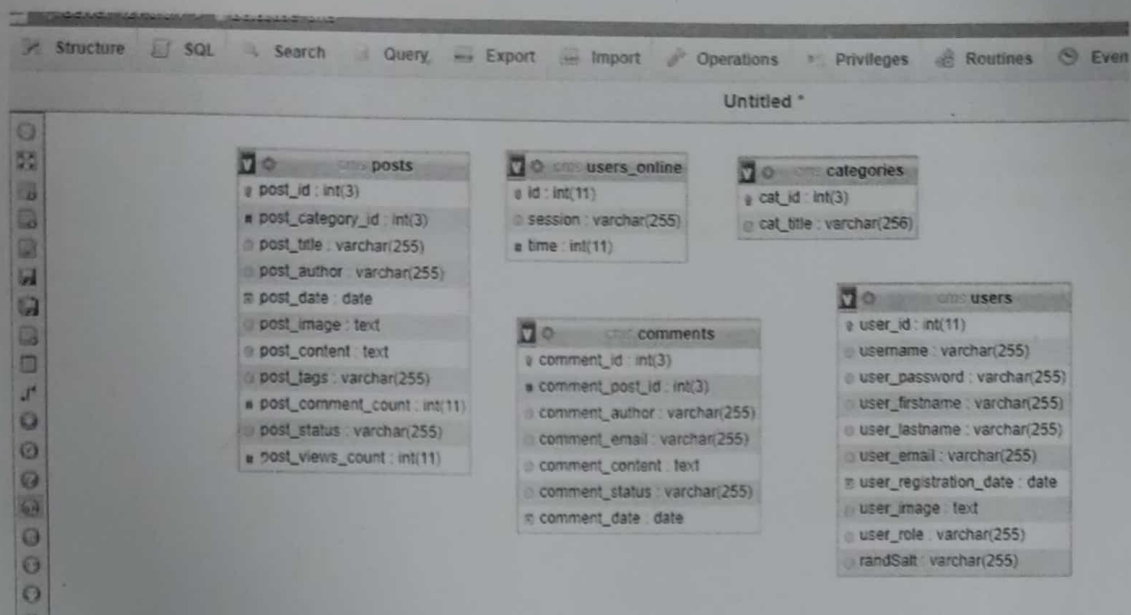


Figure 3.3 Database Design

CHAPTER 4: FINAL ANALYSIS AND DESIGN

4.1 TESTING

It is the process used to assess the quality of computer software. Software testing is an empirical technical investigation conducted to provide stakeholders with information about the quality of the product or service under test, with respect to the context in which it is intended to operate.

Testing Phases:

Software testing phases include the following:

- Test activities are determined and test data selected.
- The test is conducted and test results are compared with the expected results.

4.1.1 Landing Page

Table 1

S. No.	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	Load first page	Accepting input	User should get the next page for the further process	User gets the user login page	Pass

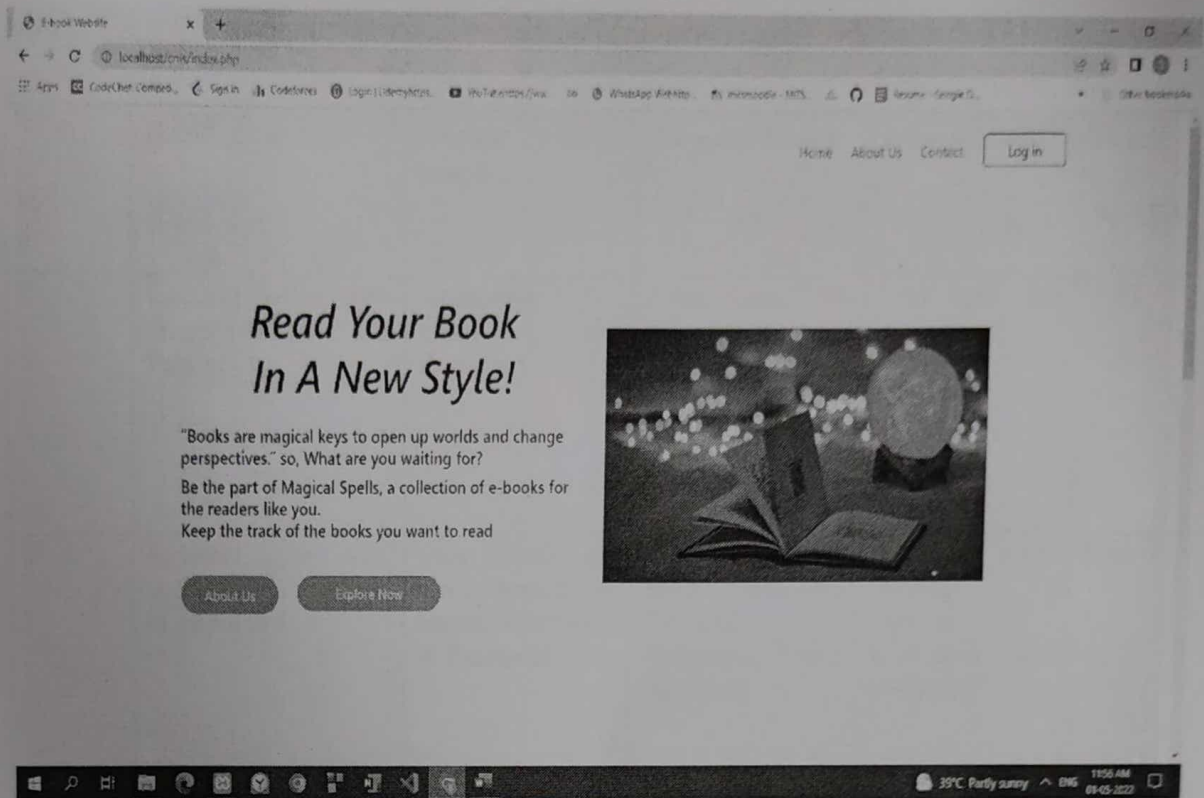


Figure 4.1 Landing Page

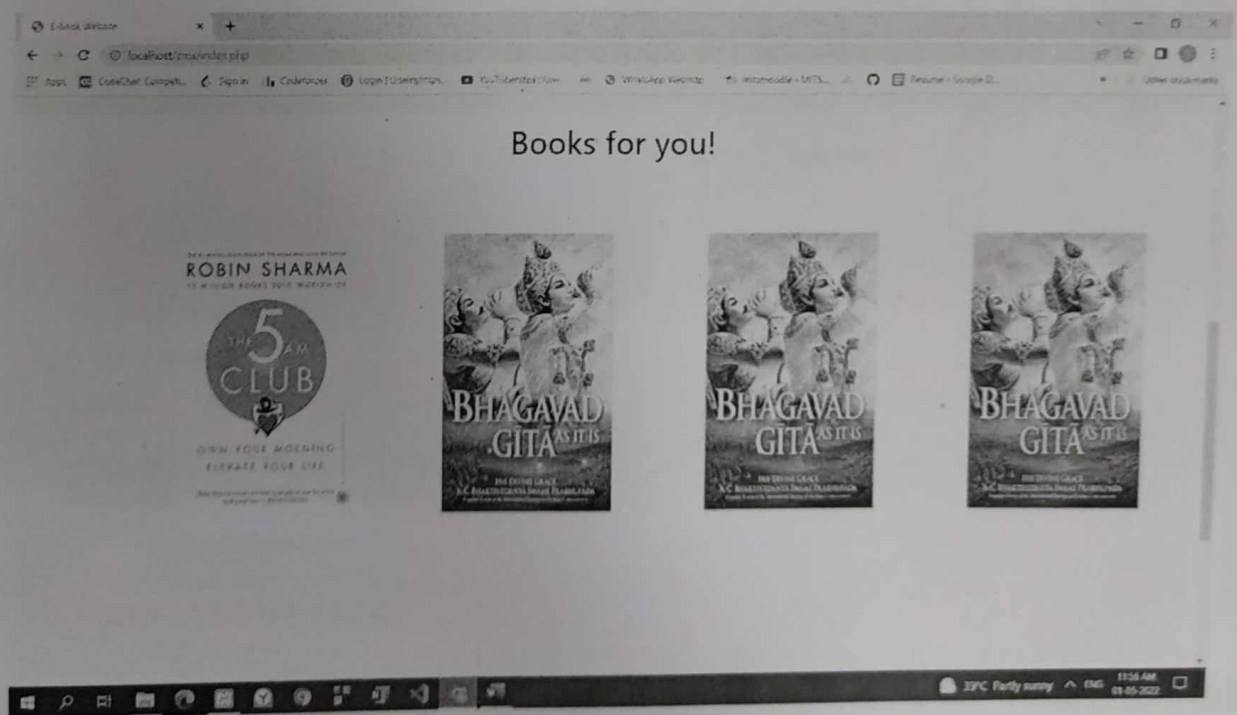


Figure 4.2 Landing Page

4.1.2 User Login Page

Table 2

S. No	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	Connect Server with proper Username and Password	Accepting Username and Password	User should get the next page for the further process	User get the menu page	Pass
2	Connect either with incorrect Username or password	User should get error message as Invalid Username & Password	User should get error message, "Invalid Username and password"	User get error message, "Invalid Username and password"	Pass

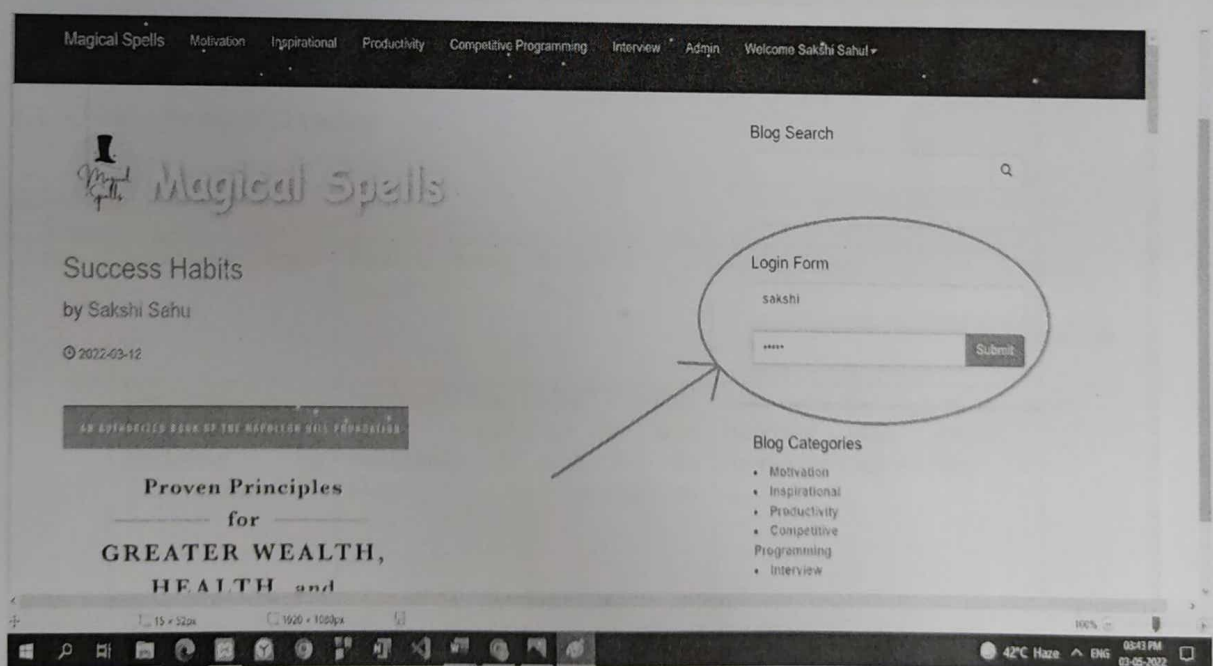


Figure 4.3 User Login Page

Blog Home - Start Bootstrap Te... x +

localhost/cms/registration.php

Apps CodeChef: Competi... Sign in Codeforces Login | Udemyhttps://w... YouTubehttps://wa... WhatsApp Webhttp... Interview - MIT... Resume - Google D...

Magical Spells Motivation Inspirational Productivity Competitive Programming Interview Register Now

Register

First Name

Last Name

Enter Desired Username

password@example.com

Password

User Image

Choose File No file chosen

Register

Copyright © Our Website 2022

Figure 4.4 User Registration Page

4.1.3 'Blog Publish' Testing

Table 3

S.no	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	User logged in and can read the blog published by Administrator.	Successful Log in and publishing of blog.	User should get the next page for the further process	User gets the logged in blogging page ,where he/she can read the blog.	Pass

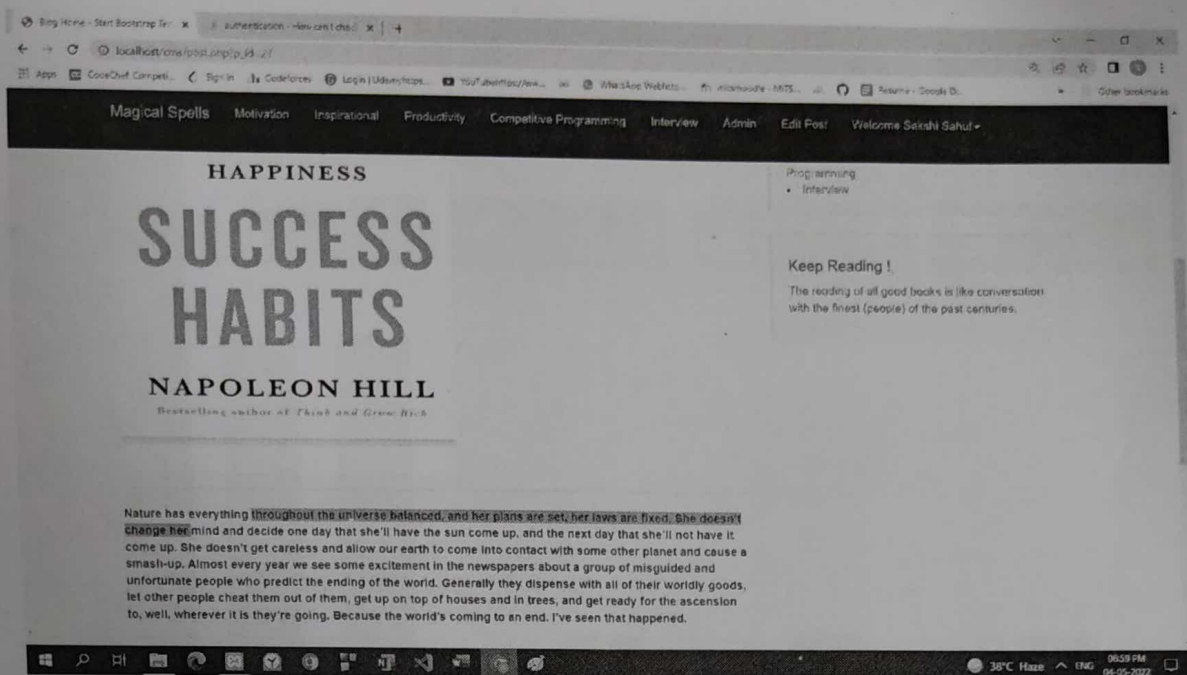


Figure 4. 5 Published Blog Page

4.1.4 'Administrator Login' Testing

Table 4

S. No	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	Login Admin Page	Necessary Features is visible .	Administrator should get the next page for the further process	Successful Login of Admin	Pass

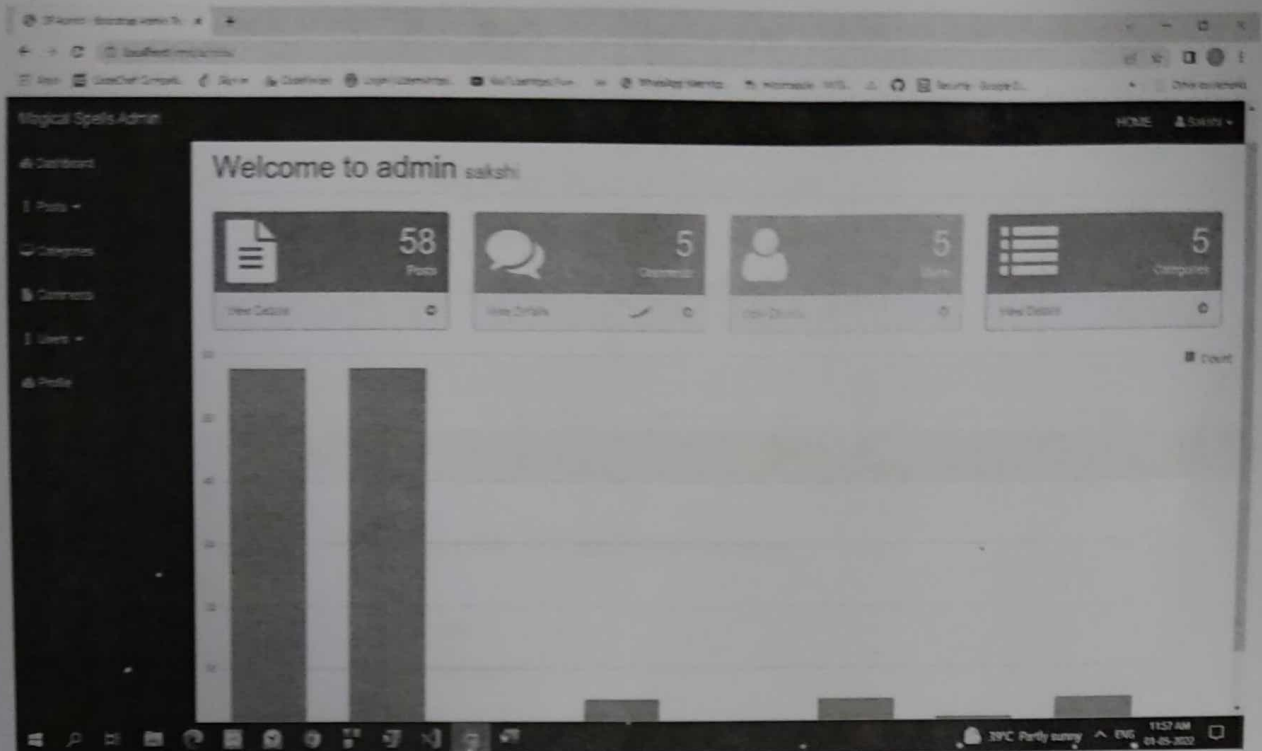


Figure 4.6 Administration Login Page

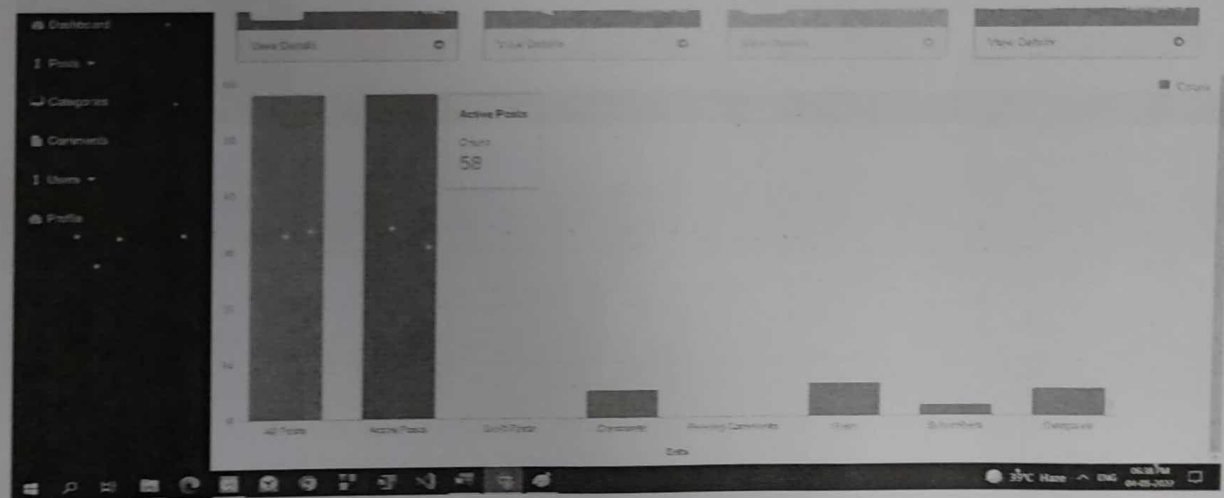


Figure 4.7 Bar Chart Of Administrator

4.1.5 'Create Post' Feature Testing

Table 5

S.no	Name of test Case	Feature being tested	Expected Result	Actual Result	Result

					Pass/Fail
1	Create Post Page is Opened	Interface for post creation and also the feature to upload image.	Admin should be able to create the post successfully.	Post is created	Pass

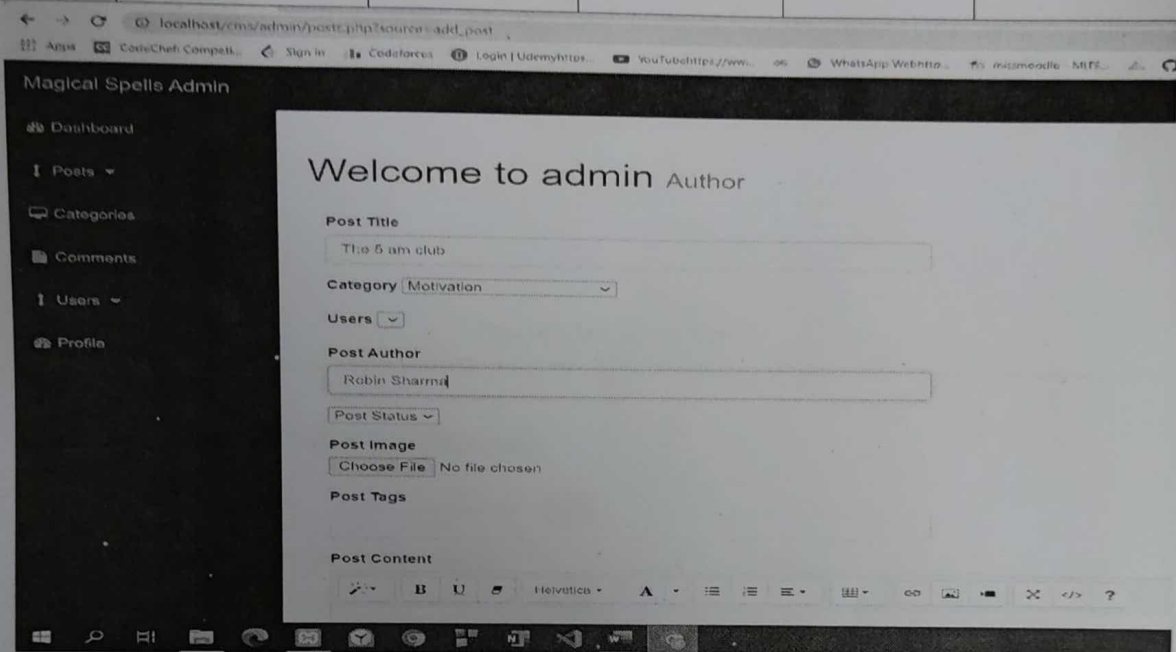


Figure 4.8 Create Post Page

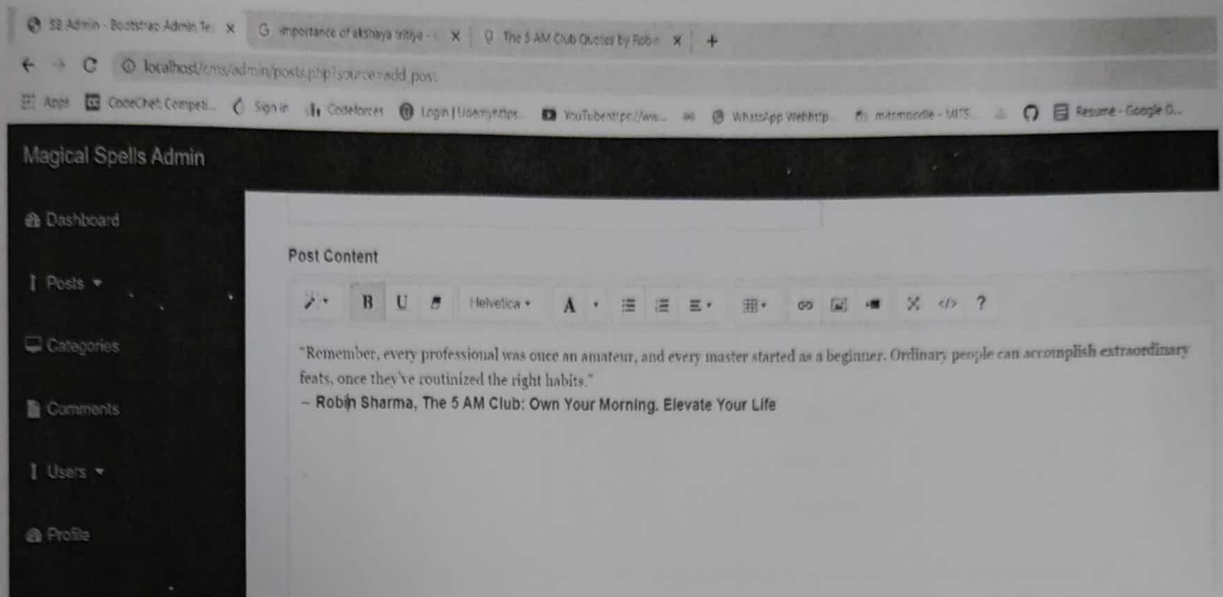


Figure 4.9 Add Content Page

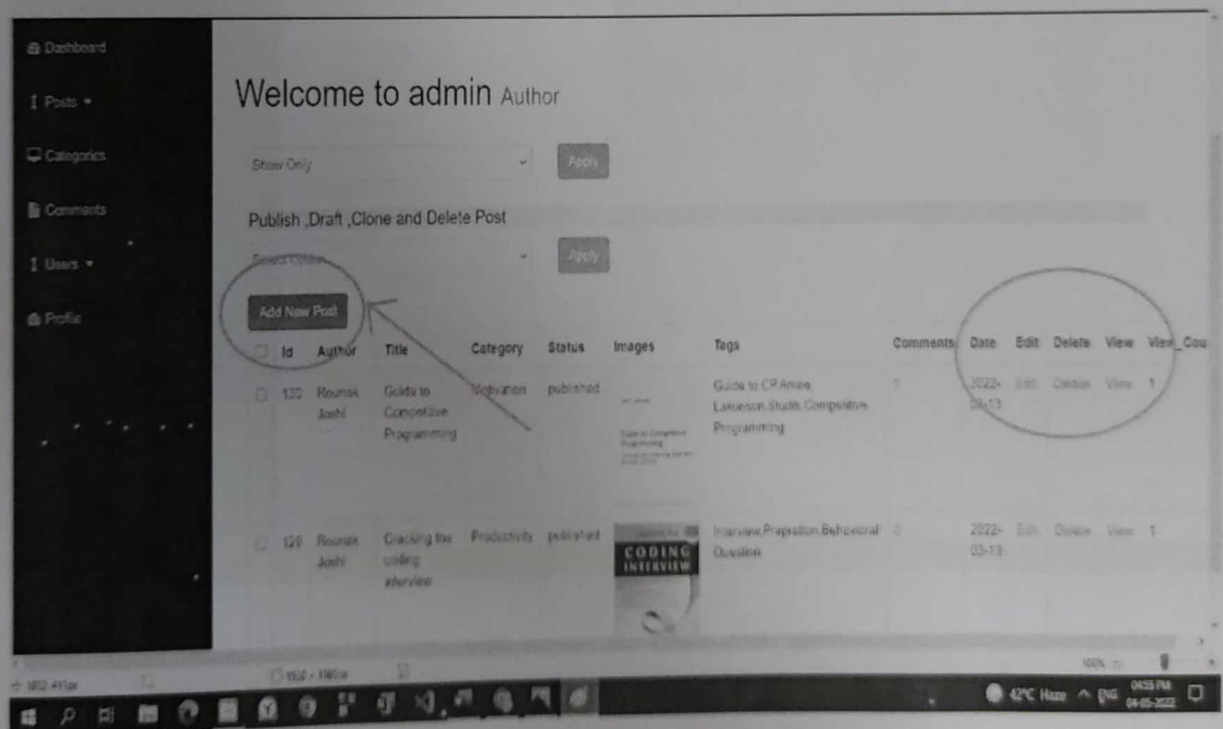


Figure 4.10 All Post Page

4.1.6 'Manage User' Page

Table 6

S. No	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	Manage User Page is Opened	Necessary features should be displayed .	Admin must able to add or remove user or make any user admin.	Admin able to add or remove user and can make any user Admin	Pass

Dashboard

Posts

Categories

Comments

Users

View All Users

Add User

Profile

Welcome to admin Author

First Name
Rounak

Last Name
Joshi

Role
Admin

Email
rounak@123

Profile Image
Choose File No file chosen

Username
Rounak

Password
.....

Add User

Figure 4.11 Add User Page

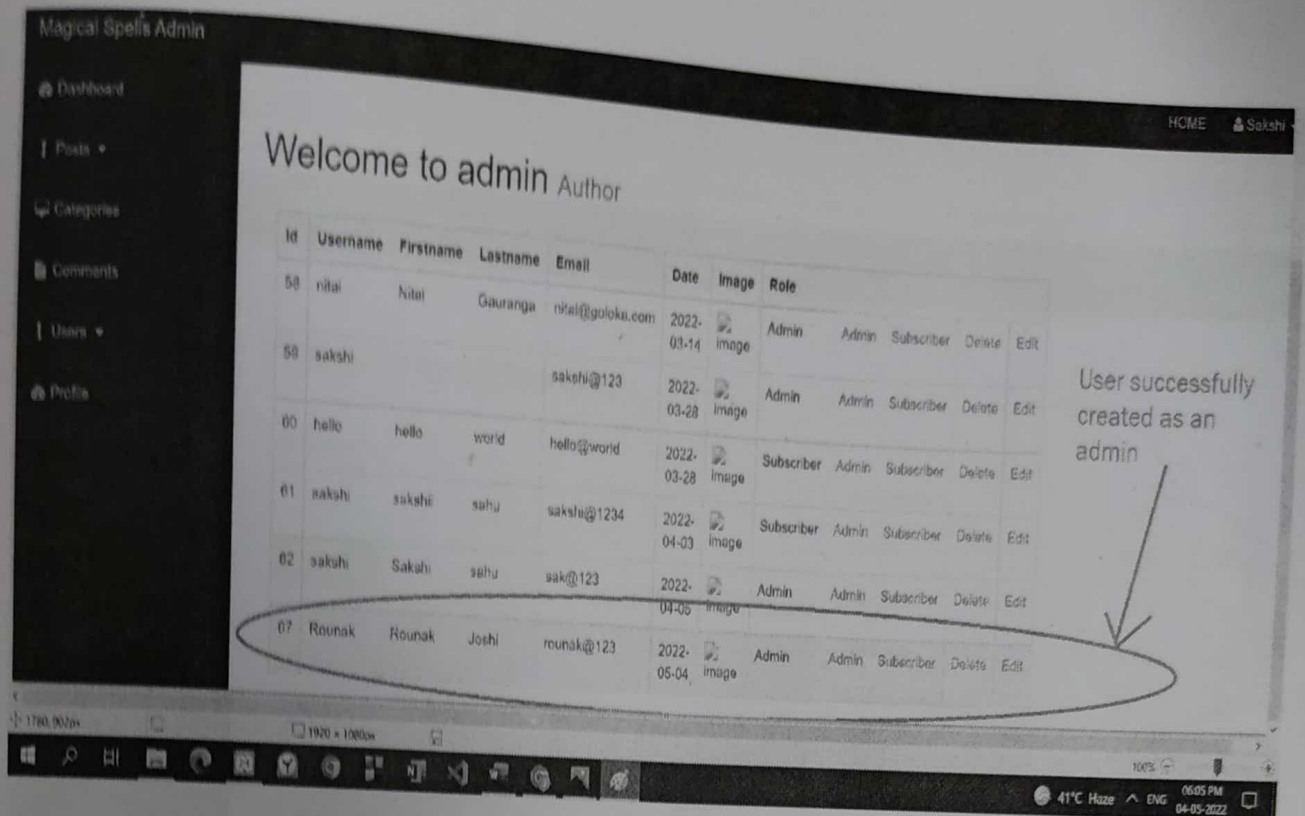


Figure 4.12 Show All User Page

4.1.7 'Manage Topic' Page

Table 7

S. No	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	Manage topic Page is Opened	Necessary features should be displayed .	Admin must able to edit or remove any topic.	Admin able to add or remove any topic successfully	P

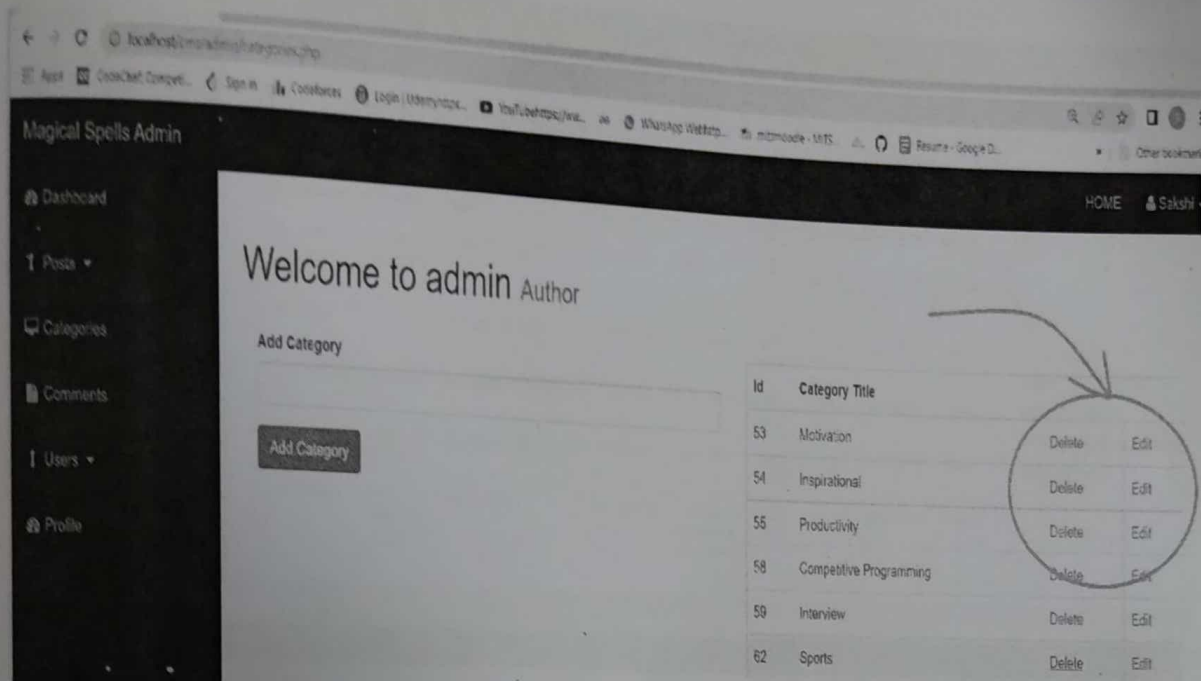


Figure 4.23 Add Topic Page

4.1.8 'Manage Comments' Page

Table 8

S. No	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	Opening 'Comments' Page.	Comment should be displayed .	Comment as a feedback is displaying.	The information of user is displaying successfully.	Pass

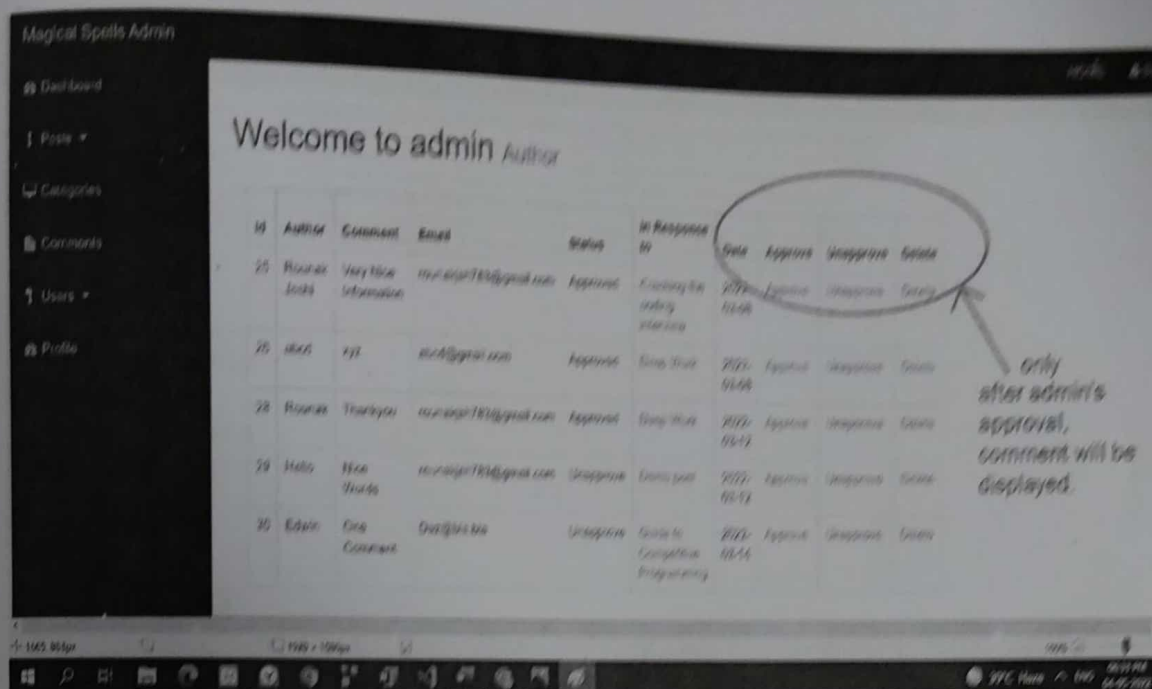


Figure 4.14 All Comments Page

4.1.9 Comments Section

Table 9

S. No	Name of test Case	Feature being tested	Expected Result	Actual Result	Result Pass/Fail
1	User should be able to comment.	Comment should be submitted.	Comment reached to the admin, and after approval, it can get displayed as a feedback.	The comment of the user is displaying successfully.	Pass

Magical Spells Motivation Inspirational Productivity Competitive Programming Interview Admin Edit Post Welcome Sakshi Sahul

Nature has everything throughout the universe balanced, and her plans are set, her laws are fixed. She doesn't change her mind and decide one day that she'll have the sun come up, and the next day that she'll not have it come up. She doesn't get careless and allow our earth to come into contact with some other planet and cause a smash-up. Almost every year we see some excitement in the newspapers about a group of misguided and unfortunate people who predict the ending of the world. Generally they dispense with all of their worldly goods, let other people cheat them out of them, get up on top of houses and in trees, and get ready for the ascension to, well, wherever it is they're going. Because the world's coming to an end, I've seen that happened.

Leave a Comment

Figure 4.15 Comments Section

4.2 Problems Faced

4.2.1 Scalability

Websites are often created without thinking about how many users will be using it. Just because the page works well with one user, doesn't mean it can handle 100 users.

4.2.2 Usability

Usability is often the biggest flaw with websites. They are designed to look nice but people forget that, if your users don't understand how to use the website, they are just going to close the tab/window.

If you design a page so that someone who has never used a computer should hopefully figure it out, then you're on the right track.

So we figured it out in a way that there should be no complex forms. No unnecessary warnings. As few errors as possible (and certainly no error codes). Every process should be as simple as possible, as quick as possible and as painless (for the user) as possible..

4.2.3 Maintainability

This is often forgotten when creating a web page. Someone (including yourself) will one day have to change something, fix something or improve something. When you've created 100's of scripts, you probably won't remember everything that's going on.

So better to use good indentation, proper use of comments so that it can be readable as well as understandable in the future as well.

4.3 Limitations

4.3.1 Hierarchical Comments

Till now, only admin can make the changes based on the posts, so further changes can be made in such a way that users can also make changes.

Also right now only one comment can be displayed, that is there is no provision for hierarchical comments, so that feature can also be updated in the future.

Chapter 5: CONCLUSION AND FUTURE WORK

5.1 Conclusion

There has been rapid development and changes in each and every platform, so people must keep themselves updated with the changes so that they can prosper in their field. Since in every field, Books plays a major and necessary part. We created this website to help the user read the blogs published by the administrator which not only develops the interest within the user regarding the book but also help the author to increase the sell of books by making it reach to many people.

The administrator can publish the post from the books in the form of blog and he will be paid for that as it increases the purchase of that book indirectly. The user also get benefit, as they make the choice of purchasing the right book after reading the book snippets as a blog. The User/Administrator Login and Signup make it more secure against the unauthorized access.

In a nutshell, this system is beneficial for the user, administrator as well as for the author of the book.

5.2 Future Work

With rapid and advances in this competitive environment it is difficult to predict how things will improve and expand in the coming years. Though we have some advance plans for the future enhancements in the current project.

There are lots of additional facilities that can be added to this project and also there are many chances to improve our current features. The following enhancements can be implemented in this product. Further enhancement can be done to allow the user and administrator to login through various platforms like (Google, Facebook, Twitter). Further improvement can be made so that the different user can also publish the post. The GUI can be customized to meet the user needs. Functionality will be added in which User can like and comment in the blog.

Till now we have included all the required features to the best of our capability. In future we can add more options/ features as needed. All the modules are designed in such a way that we can add more features whenever needed in an easy manner. In the bottom line we may conclude that the website is extensible and robust.

REFERENCES

- 1- Google Trends (<https://trends.google.com/trends/?geo=IN>)
- 2- Google Ads (https://ads.google.com/intl/en_in/home/)
- 3- FacebookAds (<https://www.facebook.com/business/ads>)
- 4- Udemy Courses (<https://www.udemy.com/course/php-for-complete-beginners-includes-mysql-object-oriented>)
- 5- PHP Documentation (<https://www.php.net/docs.php>)
- 6- MySQL Documentation (<https://dev.mysql.com/doc/>)
- 7- Fundamentals Of Software Engineering By Rajib Mall