VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belgavi-590 018, Karnataka, India

An Internship Report

On

"WEB BLOG SYSTEM"

Submitted in Partial Fulfillment of the requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING

Submitted By

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S J C INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CHIKKABALLAPUR-562101

2021-2022

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Sri Adichunchanagiri Shikshana Trust®

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CERTIFICATE

This is to certify that the Internship work entitled **"WEB BLOG SYSTEM"** carried out by Swapna K bearing USN:1SJ18CS109 a bonafide student of Sri Jagadguru Chandrashekaranatha Institute of Technology in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** of **Visvesvaraya Technological University, Belgaum** during the year 2021-22. It is certificated that all corrections suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

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COMPANY CERTIFICATE

VMD Technologies

Date: 02/04/2022

TO WHOMSOVER IT MAY CONCERN

Certified that the Internship work entitled **"Full Stack Web Development for Web Blog"** has been carried out by **Ms. Swapna K (USN: 1SJ18CS109)** as a bonafide student of **S J C Institute of Technology, Chikkaballapur -562101**, in partial fulfillment for the award of **Bachelor of Engineering (BE)** from **Visweswaraya Technological University**, during the period **1st March 2022 to 1st April 2022** under my guidance. As per Company rules we are not providing the Documentation and Code of the Project except Snap Shots.

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DECLARATION

I, **SWAPNA K** , student of VIII semester B.E in Computer science & Engineering at S J C Institute of Technology, Chickballapur , hereby declare that the Internship work entitled "WEB BLOG SYSTEM" has been independently carried out by me under the supervision of **Prof. Ajay N,** Assistant Professor, Dept. of CSE, SJCIT and the internship coordinator **Prof. Narendra Babu C** Assistant Professor, Dept. of CSE,SJCIT submitted in partial fulfillment of the course requirement for the award of degree in **Bachelor of Engineering** in **Computer Science & Engineering** of **Visveswaraya Technological University, Belgavi** during the year 2021-2022. I further declare that the report has not been submitted to any other University for the award of any other degree.

PLACE: CHICKBALLAPUR **STUDENT NAME: SWAPNA K**
Date: **USN: 1SJ18CS109**

ABSTRACT

Blogging has become such a mania that a new blog is being created every second of every minute of every hour of every day. A blog is your best bet for a voice among the online crowd. Blogs were usually the work of a single individual occasionally of a small group, and often covered a single subject. More recently, "multi-author blogs" (MABs) have developed, with posts written by large numbers of authors and professionally edited. MABs from newspapers, other media outlets, universities, think tanks, advocacy groups, and similar institutions account for an increasing quantity of blog traffic. The rise of Twitter and other "microblogging" systems helps integrate MABs and single-author blogs into societal new streams. Blog can also be used asa verb, meaning to maintain or add content to a blog. As a Web developer intern my role is combine graphic design skills and technical computer skills that will allow to create particular designs on web pages. In addition to looking nice, websites need to be functional and secure.

ACKNOWLEDGEMET

With reverential pranam, I express my sincere gratitude and salutations to the feet of his holiness **Byravaikya Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Maha Swamiji,** & his holiness **Jagadguru Sri Sri Sri Dr. Nirmalanandanatha Swamiji** of Sri Adichunchanagiri Mutt for their unlimited blessings. First and foremost we wish to express my deep sincere feelings of gratitude to our institution, **Sri Jagadguru Chandrashekaranatha Swamiji Institute of Technology.** For providing me an opportunities for completing my internship work successfully.

I extend deep sense of sincere gratitude to **Dr. G T Raju**, **Principal, S J C Institute of Technology, Chickballapur**, for providing an opportunity to complete the Internship Work.

I extend special in-depth, heartfelt, and sincere gratitude to our HOD **Dr. Manjunath Kumar, Professor and Head of the Department, Computer Science and Engineering, S J C Institute of Technology, Chickballapur,** for his constant support and valuable guidance of the Internship Work.

I convey our sincere thanks to Internship Internal Guide **Prof. Ajay N, Assistant Professor, Department of Computer Science and Engineering, S J C Institute of Technology,** for his constant support, valuable guidance and suggestions of the Internship Work.

I am thankful to Internship External Guide **Mr**. **Mahendra S K, Manager, VMD Technologies, Bengaluru** for providing valuable guidance and encouragement of the Internship Work.

I also feel immense pleasure to express deep and profound gratitude to our Internship Coordinator **Prof. Narendra Babu, Assistant Professor, Department of Computer Science and Engineering, S J C Institute of Technology,** for his guidance and suggestions of the Internship Work.

Finally, I would like to thank all faculty members of Department of Computer Science and Engineering, S J C Institute of Technology, Chickballapur for their support.

I also thank all those who extended their support and co-operation while bringing out this Internship Report.

Swapna k (1SJ18CS109)

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CHAPTER - 1

COMPANY PROFILE

1.1 History of the Organization

'VMD Technologies'

At VMD Technologies, we achieve real business results that allow you to transform, and not just maintain, your operations. Our IT services, business solutions and outsourcing bring youa level of certainty that no other competitor can match. You will experience your requirements being met on time, within budget and with high quality; greater efficiency and responsiveness to your business; and the ability to shift investment to strategic initiatives rather than tactical functions.

VMD Technologies has its offshore development center, custom software development firm in Bangalore. It started operations in 2010 and has been serving clients globally. Our company provides creative solutions that not only cater to clients current but future needs as well. The global delivery model being its forte, VMD ranks amongst the best of breed solution partners. Highly talented engineers who competently understand the clients long-term requirements are the driving force behind VMD. Our company provides services in the field of custom software development and information technology consulting.

At VMD the foremost priority is to make IT work wonders for your company and allow you to focus on your core business. Your success is reflected in the VMD success story The firm faith that the offered solutions give you the defined return on investment is based on complete commitment and concentrated efforts

1.1.1 Objectives

We are committed to going the extra mile to bring success to the clients consistently. We are dedicated to delivering the right people, solutions, and services to the clients that they require to meet their technology challenges and business goals. Delivering the most efficient and the best solution to our clients to every client leveraging leading technologies & industry best practice.

1.1.2 Operation of the Organization

The race for digital transformation is on. In this globally connected on-demand world with rapid advancements in internet technologies, businesses worldwide are under constant pressure to add innovative real-time capabilities to their applications to respond to market opportunities. Every business worldwide is building event-driven, real-time applications from financial services, transportation, and energy,to retail,healthcare, and Gaming companies.Our endeavour is to make it easy to develop innovative real-time applications and efficient to operate them in production.

1.2 Structure of the Organization

The education methodologies and practices have a deliberate need to be updated and relevant. Improper education methodologies can actually cause more harm to a student. Solving the problem of mismanagement and poor conditioning of schools the aim is to create suitable environment for the younger generations to live the best phase of their lives with proper education.

A functional organizational structure is a structure that consists of activities such as coordination, supervision and task allocation. The organizational structure determines how the organization performs or operates. The term organizational structure refers to how the people in an organization are grouped and to whom they report. One traditional way of organizing people is by function. Some common functions within an organization.

1.2 Services Offered

1.2.1 Infrastructure Management Services:

IT infrastructure refers to the composite hardware, software, network resources and services required for the existence, operation and management of an enterprise IT environment. The back-end of an IT infrastructure can be split into three main elements: network, storage and computing. Investing in IT infrastructure consisting of hardware and software components such as servers, storage, virtualization and network software is as essential, as it is expensive. VMD offers the invaluable and inventive choice of enlisting IT Infrastructure as a service thus freeing enterprises from having to acquire their own IT infrastructure. Not only are VMD infrastructure services are robust and reliable, they render your business highly agile and adaptable, capable of delivering user-experiences that are un-interrupted and responsive.

1.2.2 Data Centre Management Services:

Our managed data center services transform the businesses data center management, automation, and IT operations as they transition to a hybrid IT environment. We provide the right people, processes, security, and technology across on-premise, cloud, and networks to optimize your cloud and IT infrastructure. We offer full management and automation capabilities, so the businesses can focus on strategic initiatives. Drive innovation for the business without spending unnecessary time on day-to- day operations.

1.2.3 Managed Network Services:

Managed Network Services provide proactive, highly automated operational management, and monitoring of multivendor, multi-technology enterprise networks. Businesses can rely on our networking expertise, ongoing investment, and strategic vendor partnerships to ensure your infrastructure performs and is ready to deliver the desired business outcomes.

1.2.4 Managed Security Services:

We offer consistent services to manage and optimize the security infrastructure. Organizations face a complex threat landscape with an increasing rate of cyberattacks. Mobility bring the own device, virtualization, the cloud, and social media have opened new doors into the organization. We provide businesses with the cybersecurity expertise and experience that they need to secure their organization. Take advantage of our comprehensive digital security solutions that span your IT infrastructure, on-premises and in the cloud, to respond swiftly to any security incident.

1.2.5 Managed Collaboration and Productivity Services:

Effective collaboration and communications require streamlined operations and tools to drive adoption and evolve the user experience. We provide end-to-end, flexible, and cost-effective collaboration technology solutions that are future-proof and enable digital workplaces for today and tomorrow. As a leading provider of modern collaboration technologies, we are uniquely positioned to advise, design, deploy, integrate, manage, and co-innovate for our clients in complex multivendor environments. We manage multivendor collaboration solutions including voice, video, messaging, presence, and conferencing with on-premise, hosted, cloud, or hybrid deployment models.

1.2.6 Consulting Services:

To keep pace in the digital age while controlling costs and mitigating business risks, you can no longer depend on the past as a guide for the future. We help businesses create and execute strategies to unlock opportunities, optimize processes, and uncover cost savings.

1.2.7 Digital Infrastructure & Networking Services:

Through our strategic partnerships and expert skills, we help you optimize your digital transformation, with cloud optimized hybrid WAN and SD- WAN solutions.

1.2.8 Digital infrastructure Security:

Digital infrastructure security combines digital infrastructure and cybersecurity, embedding security controls and preventative measures to ensure secure-by-design. It majorly focuses on implementing firewalls and deploying cloud, data center, server and database security that are all essential in protecting the IT environment of an enterprise.

1.2.9 Technical Support & Services:

Technical expertise and resources effectively integrated within your IT environment. Staying relevant in the rapidly evolving digital age isn't optional. Design and deployment of new technology can be challenging, and it's often not practical to do it yourself. You need an experienced strategic partner to support your successful digital transformation.

CHAPTER – 2

TASK PERFORMED

In this full stack development course it was divided into two parts one is front end development and one more is backend course.

2.1 Training Program

The internship is a platform where the trainees are assigned with the specific task. In the initial days of the internship, I was trained on the following:

a. HTML
b. CSS
c. JAVASCRIPT
d. PHP
e. SQL

2.2 FRONT END

In front end part we have used HTML, CSS and Java Script has the web development languages mainly used for the design of the web page.

a. HTML(Hyper Text Markup Language)

The Hyper Text 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 CSS and scripting languages such as Java Script.

b. CSS(Cascading Style Sheet)

Cascading Style Sheets is a style sheet marketing used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World wide Web, alongside HTML and Java Script.

c. JAVASCRIPT

JavaScript, often abbreviated as JS, is a programming language that conforms to the ECMA Script specification. JavaScript is high level, often just-in-time compiled, and multiparadigm. It has curly-bracket syntax, dynamic typing, prototype-based, object- oriented, and first class function.

2.3 BACKEND

The backend was consisted of the simple PHP and the SQL database to connect.

2.3.1 PHP

a. PHP is an acronym for "PHP: Hypertext Pre processor" PHP is a widely-used, open source scripting language PHP scripts are executed on the server.
b. PHP files can contain text, HTML, CSS, JavaScript, and PHP code
c. PHP code is executed on the server, and the result is returned to the browser as plain HTML
d. PHP can generate dynamic page content, open, read, write, delete, and close files on the server, can collect form data ,can send and receive cookies ,can add, delete, modify data in your database ,can be used to control user-access ,can encrypt data

With PHP you are not limited to output HTML. You can output images, PDF files, and even Flash movies. You can also output any text, such as XHTML and XML.

2.3.2 SQL

a. SQL stands for Structured Query Language
b. SQL lets you access and manipulate databases
c. SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987

SQL can execute queries against a database, retrieve data from a database ,insert records in a database, update records in a database, delete records from a database, create new databases, create new tables in a database, create stored procedures in a database, create views in a database, set permissions on tables, procedures

In my one month internship training have undergone through three phases:

a. Training Phase
b. Designing and Development Phase

As the final task, a main project was developed and it was a website development for a company named “ORIGIN”, which contained the information about the company, the basic skill set to develop, the objective of the company, the activities to be held, also the testimonials and all the basic information that the website should contain about the respective company. All the means of communication system was provided to the students who need to get registered for the ORIGIN groups.

CHAPTER – 3

SYSTEM REQUIREMENTS AND SPECIFICATION

3.1 System requirements & specification

HARDWARE REQUIREMENTS

1. Processor: Intel – i5
2. RAM: 16 GB
3. Hard disk: 500 GB

SOFTWARE REQUIREMENTS

1. Operating System : Windows
2. Database : Mysql

3.2 System Analysis and Design

3.2.1 Existing System and its advantages

Existing system is manual system. It requires a lot of file work to be done. It is a time consuming system. All customer information is maintained manually. Any searching requires so much effort manually. There is no way of spreading the information so fast and in cheapest manner. In previous systemall information does not get in one place. Here people can write what ever they want to write.

Disadvantages of the Existing System

Data redundancy and formatting: The various files are likely to have different formats and therefore lead to redundancy and in consistency.

Maintaining registers is costly: Traditionally documents have been stored in batches and they field in file cabinet sandboxes. A numerical system is they assigned. Specifically a consumer number assigned to organize the files.

Error prone : Existing systems are error prone, since manual work is required. More time is consumed and errors may propagate.

Low security feature: Due to maintenance's of records manually and shared and could view easily by anyone. Also these could be possible loss of data and confidential information due to some disaster in the form of Fire, theft .

Proposed System

A blog is your best bet for a voice among the online crowd. Blogs were usually the work of a single individual occasionally of a small group, and often covered a single subject.The rise of Twitter and other "microblogging" systems helps integrate MABs and single-author blogs into societal new streams. Blog can also be used as a verb, meaning to maintain or add content.

3.3 System Architecture

3.3.1 Data Flow Diagram

Data flow diagrams model the flow of data into, through, and out of an information system:

a. Show the processes that change or transform data
b. Show the movement of data between processes
c. Represent a system as a network of processes which transform data flowing between them.

CONTEXT DATA FLOW DIAGRAM

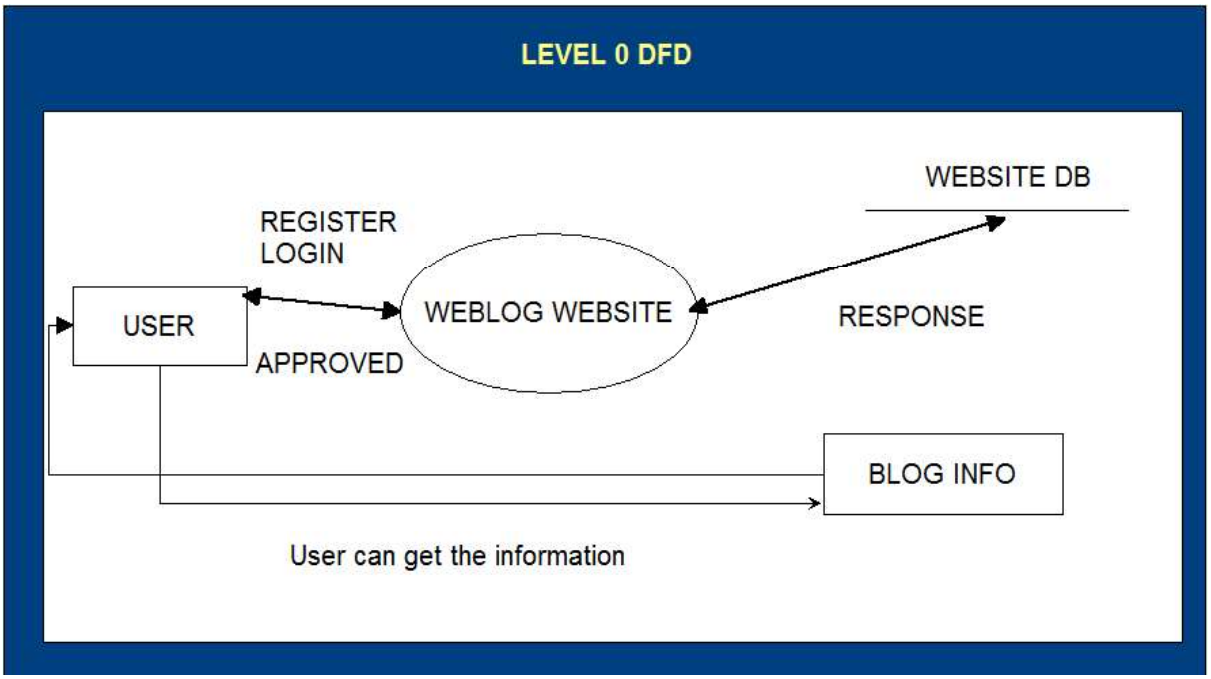


Figure 4.1 : Level 0 Data Flow Diagram

This is the Zero level DFD of web blog system,As shown in figure where we have elaborated the process of web blogging Web blogging system data flow diagram is often used as a premilinary step to create an overview of the web blog.it contains all of the userflow and their entities.

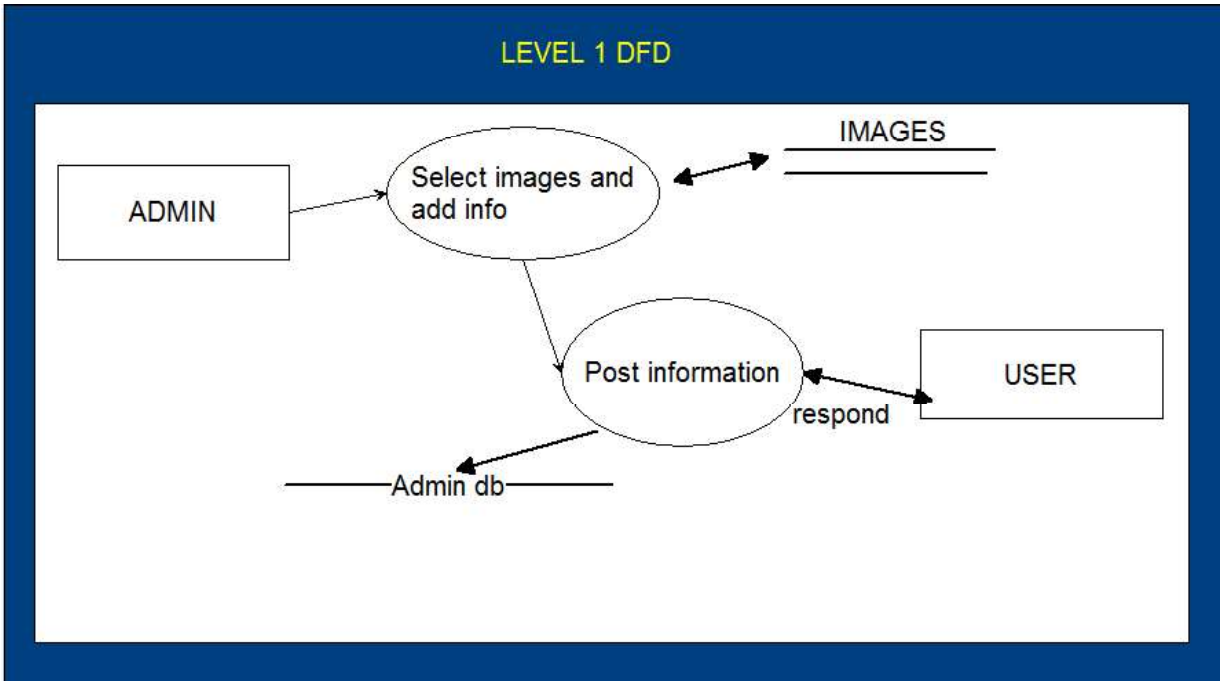


Figure 4.2 : Level 1 Data Flow Diagram

As shown in figure 4.2,First level DFD of web blogging system shows how the system is divided into sub systems each of which deals with one or more of the data flows and which together provide all of the functionality of the web blogging system.

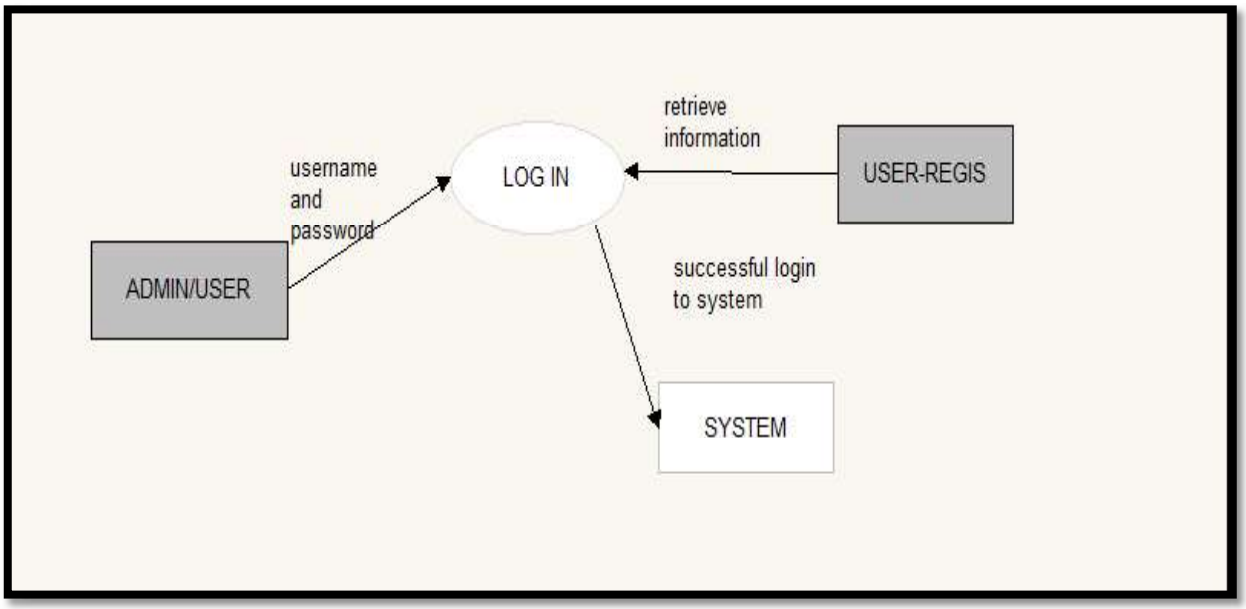


Figure 4.3: Log in Diagram

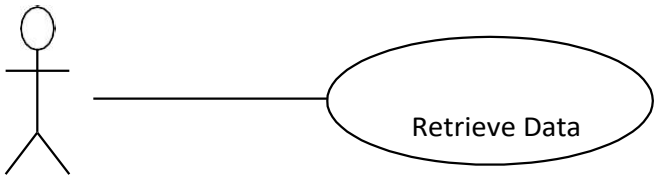
As shown in the figure 4.3,This is the Log in diagram of blogging system, Where admin will be able to login in their account using their credentials. All the pages such as web page, category are secure and user can access these page after login. The diagram above helps demonstrate how the login page works in a blogging system.

3.3.2 Use Case Diagram

Use Case: Upload Data

Brief Description:

The user approaches the site and retrieve data of his choice**.**



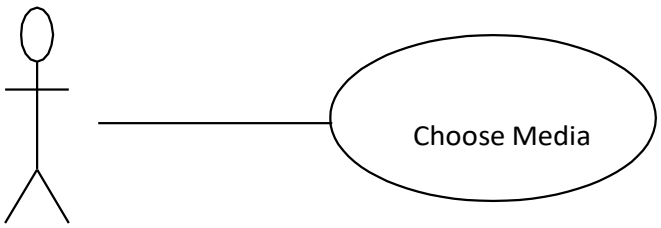
User

Figure 4.4: User Retrieving Data

Use Case: Choose Media

Brief Description:

The customer submits his chosen data to the database for the implementation purpose.



User

Figure 4.5: User Choosing Media

Admin Use Case:

The admin has the following set of use cases:

- Log In
- View Requests
- Process Requests
- Access Database

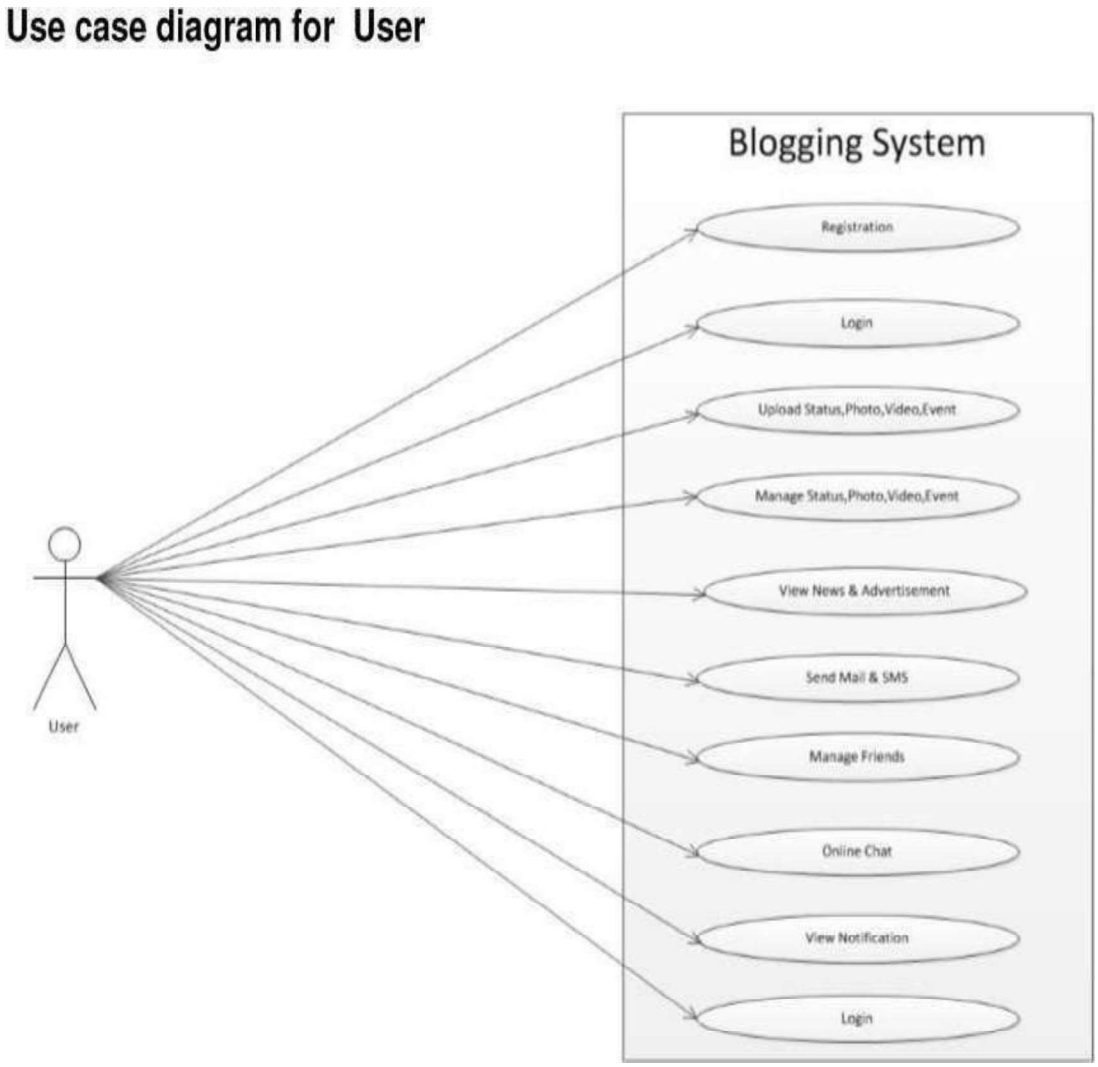


Figure 4.6:User case diagram for user

This use case diagram is a graphic depiction of the interactions among the elements of the blogging system. It encapsulates the systems functionality by incorporating use cases ,users and their relationships.

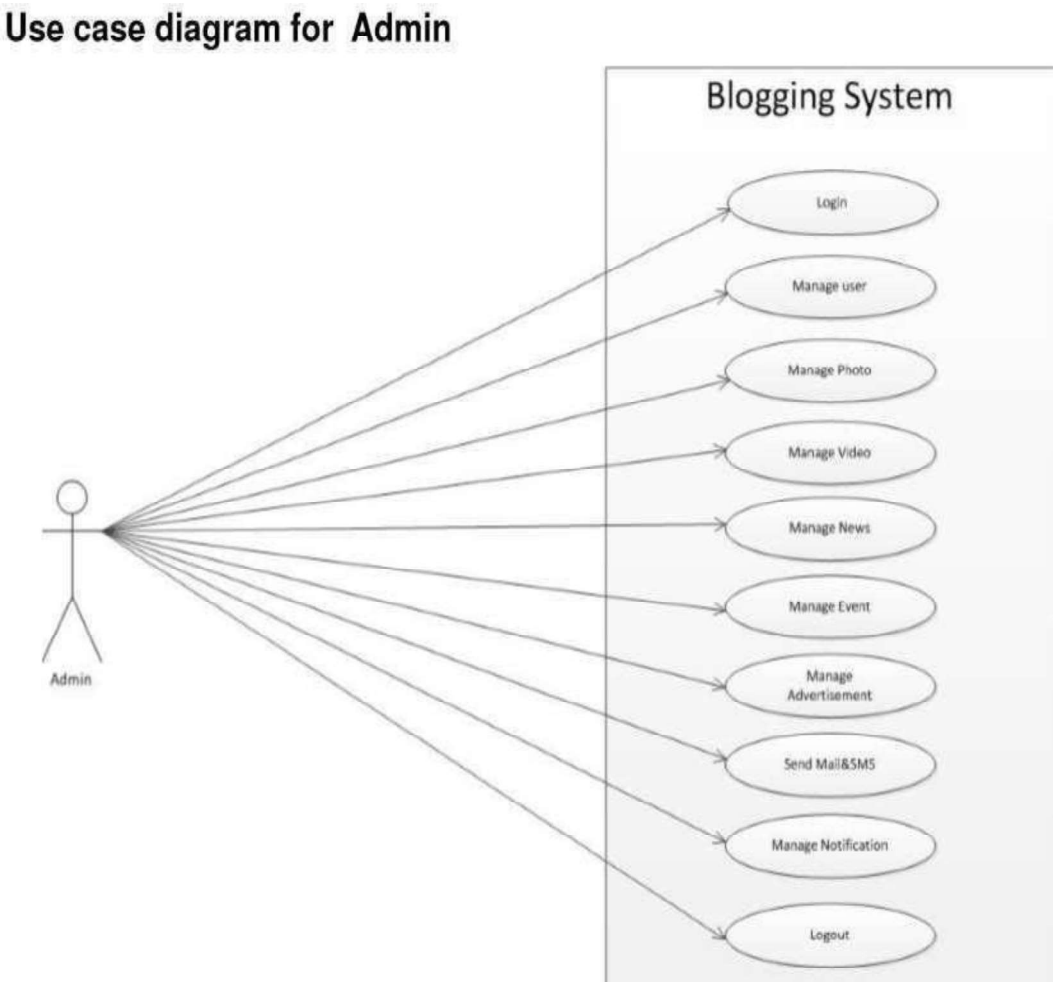


Figure 4.7:User case diagram for admin

System will provide an interface for admin and subordinate searching comprehensively the reference information from the blogs of application on the basis of various parameters like manage user, photos.

3.4 Implementation

3.4.1 Modules

The modules involved in this project are:

a. User
b. Admin

1. User

In this module:

a. User can signup
b. User can login
c. User can upload multiple images
d. User can choose images from database
e. User can add information
f. User can add comments
g. User can select anycategories

2. Admin

In this module:

a. Admin can block user id
b. Admin can resume user id
c. Admin can see all pages
d. Admin can maintain all records of user
e. Admin can maintain all site
f. Admin can access and process all requests
g. Admin can delete/update/select users
h. Admin Provide all information related to any topic

a. Change Account Information

Update Account information like Name, Address, Email ID and their detail.

b. Search Reference Case

System will provide an interface for Administrator & Subordinate searching comprehensively the reference information from the blogs of application on the basis of various parameters, likeTitle ofblogs e.g. health.

c. Other Functionalities

System will also provide other functionalities like:

- Feedback
- Request
- FAQ etc.

d. Inputs Requirements of the System

a. User Information
b. Log in Information
c. Comment Information
d. Categories Information
e. Recent Posts Information
f. Registered Information
g. Topic Information
h. Feedback
i. FAQ
j. Request

1. Output Requirements of the System

a. Blog Information
b. Novel Information

2. Maintenance

The system allows following Maintenance processes

a. Manage Blogs
b. Manage Blogs Categories
c. Manage Recent posts
d. Manage users
e. Manage images

CHAPTER – 4

OUTCOMES OF THE WORK

4.1 Technical Outcomes

a. Basic understanding of web technology and its applications.
b. Learnt the practical approach of My SQL database
c. Learnt the HTML and using its appropriate tags
d. Learnt different types of cascading style sheets and experienced itsuse.
e. Designed and developed a web pages along with their navigations and different types of information was inserted which was included with thevideo, gif and the anime .
f. Finally a simple website was developed with the design of front and backend

4.2 Non - technical Outcomes

a. **Problem Solving Skills** An internship introduces me to real-life work problems and hence develops the problem solving skills. Whatever problem statement I may encounter, it builds a potential within me to solve the given problem within the specific time.
b. **Adaptability Skills** Everyone won't be adaptable in the beginning. Being adaptive tothe surroundings easily is one of the most useful soft skills not only desirable to employers but also important to self-growth.
c. **Communication Skills** It's one of the top listed skills that recruiters look for in a resume and something that can get you from bottom to top. Communicating well is a gem of a skill which I learnt during my internship experiences. Internship provides an opportunities were I can exhibit my communication skills in delivering the knowledge to the people.

CHAPTER – 5

SNAPSHOTS

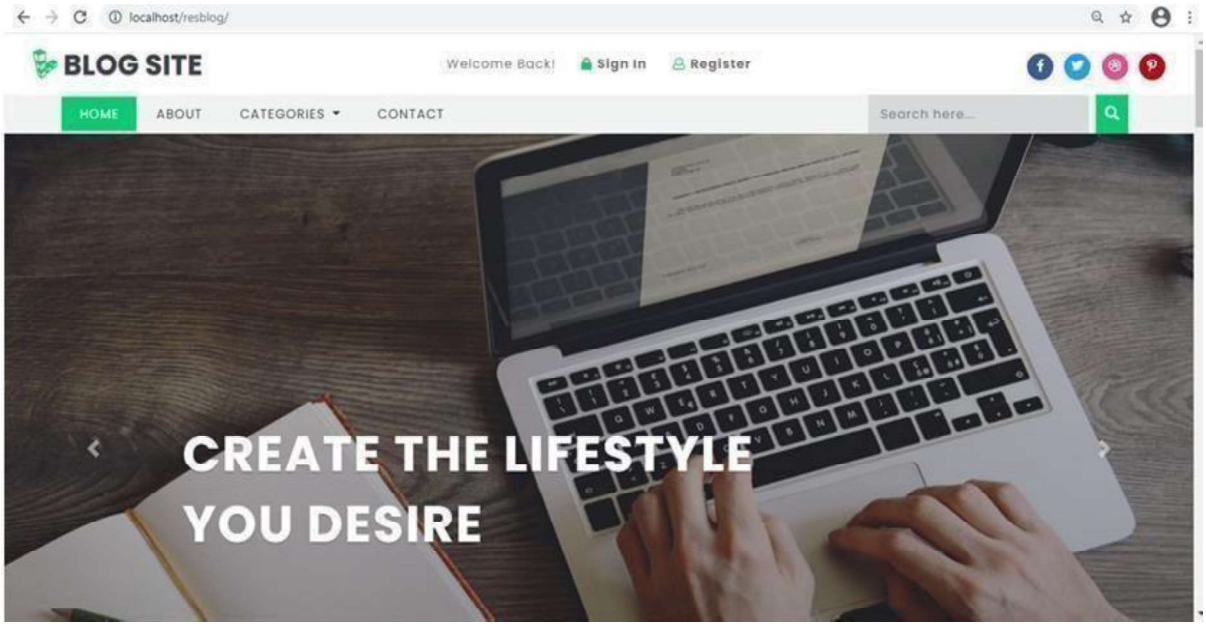


Figure 5.1 : WEB HOME PAGE

As shown in figure 5.1, Home page include a navigation bar that provides links to different sections within the website. Such as about, categories, contact.

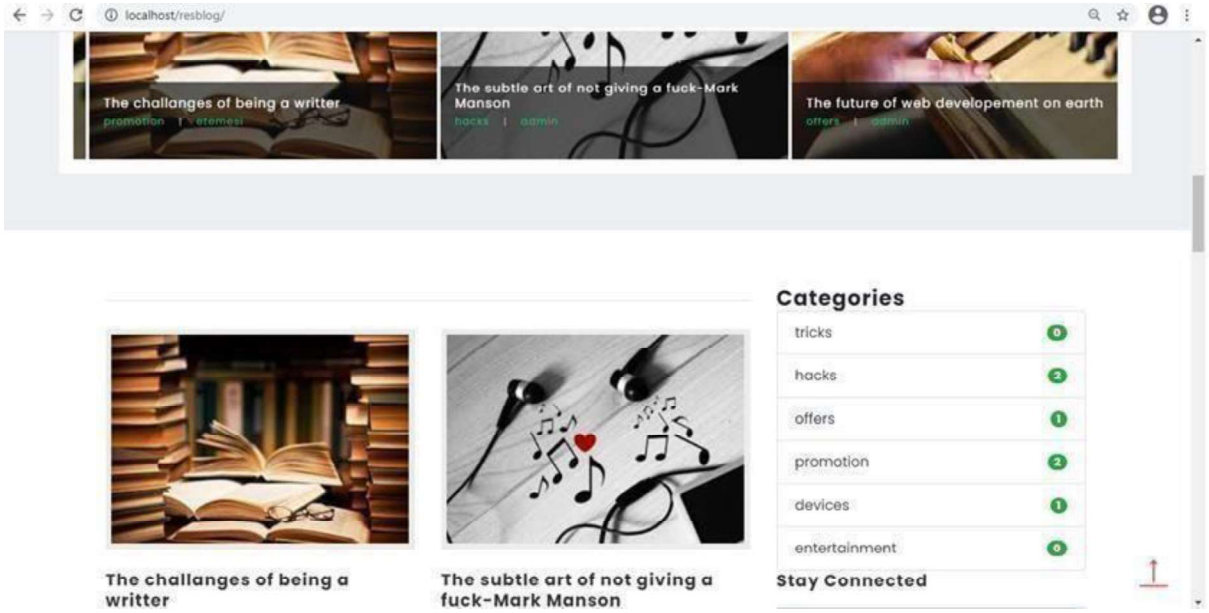


Figure 5.2: CATEGORIES

As shown in figure 5.2 Category is a topic you address on your blog. Categories are broad and can encompass smaller Defined topics.

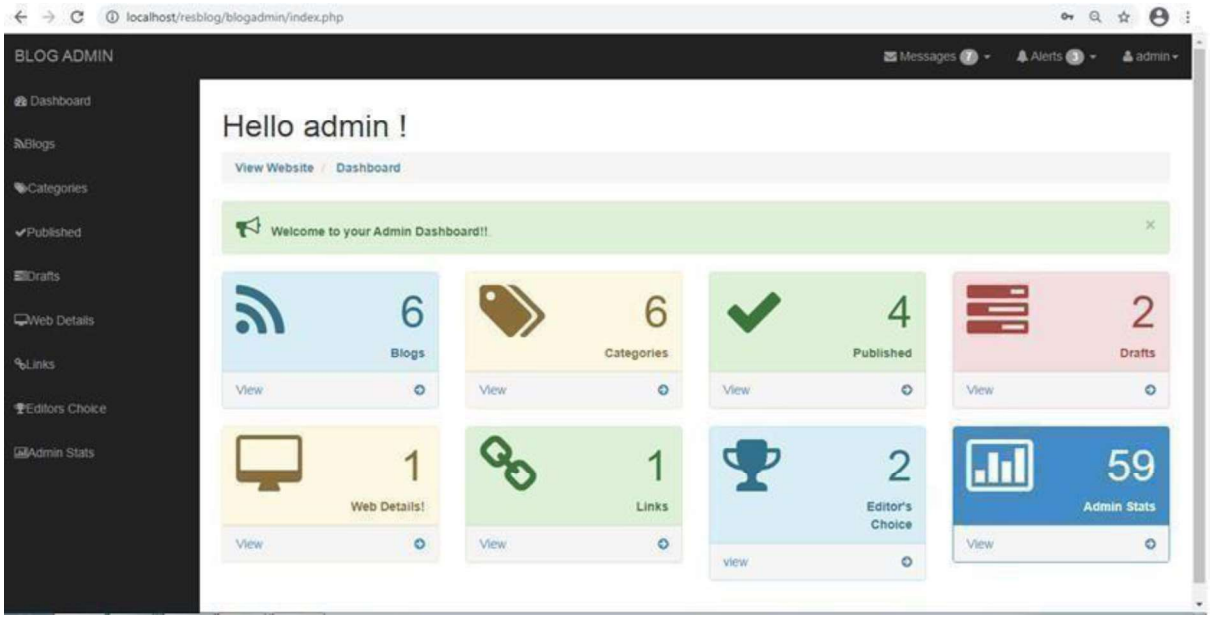


Figure 5.3 : ADMIN DASHBOARD

As shown in figure 5.3,The screen which will be seen when log into the administration area of your blog which will display the overview of the website. It is a collection of gadgets that provide information and provide an overview of the website.

Figure 5.4: BLOG CATEGORIES

As shown in figure 5.4, Blog categories organize your site and allow readers to find the information they want.They're high level topics that make it easy for people to understand what your blog about andnavigate to the content that interests them.

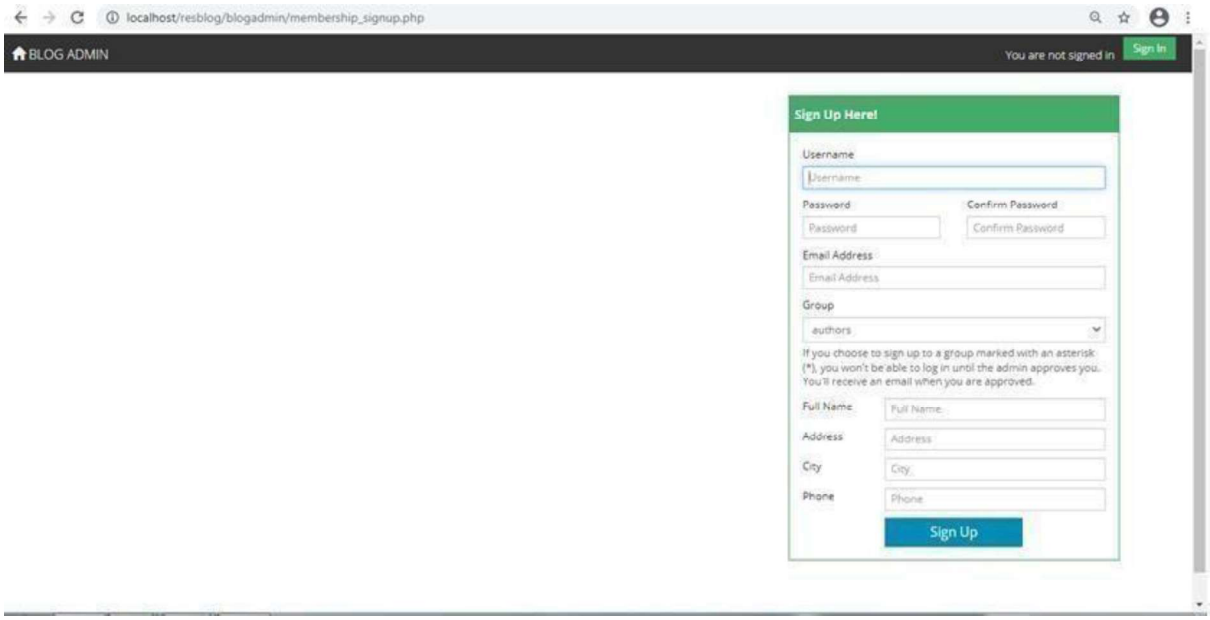


Figure 5.5: USER REGISTRATION

As shown in figure 5.5 User registration are screens, forms, or profile pages that request information from a user to create a web based account or profile. A user registration generally asks a user to create username and password and Possibly answer other security questions as well.

CHAPTER - 6

CONCLUSION

While developing the blogging system a conscious effort has been made to create and develop to implement user and admin modules, making use of available tools, techniques and resources that would generate a proper system for this blogging website. While making the system,As such one may hope that the system will be acceptable to any user and will adequately meet needs. As in case of any system development process where there are a number of short comings, there have been some shortcomings in the development of this system also.

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Appendix A: Abbreviation

a. **CSS:** Cascading Style Sheets.

b. **HTML:** HTML stands for Hyper Text Markup Language.

c. **JS:** JavaScript.

d. **PHP:** (recursive acronym for PHP: Hypertext Preprocessor)

e. **IT:** Information Technology

f. **WAN:** Wide Area Network

g. **MABs:** Multi – Author Blogs

h. **DFD:** Data Flow Diagram