

# **Nutri Knowledge: An online blog system**

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This Report Presented in Partial Fulfillment of the Requirements for the  
Degree of Bachelor of Science in Computer Science and Engineering.

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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

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## **APPROVAL**

This Project titled “**Nutri Knowledge: an online blog system**”, submitted by Md. Mazharul Islam, ID:152-15-5627 and Md. Sheikh Rasal, ID:152-15-5639, to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 03 May 2019.

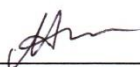
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We must acknowledge with due respect the valuable support and patients of our parents.

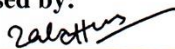
Finally, we would like to thank our entire course mate in Daffodil International University, who took part in this discuss while finishing the course work.

## DECLARATION

I am declare that, this project has been done by us under the supervision of **Md Zahid Hasan, Assistant Professor, Department of CSE, Daffodil International University.**

I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

Supervised by:



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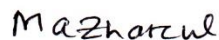
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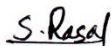
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## ABSTRACT

The main purpose of the “**online health tips based website**” is to make a better place for knowing about all types of health queries and essential tips for a human health.

We really hope that by visiting our websites people will know about health facts and nutrition tips that are actually based on good science. Those who are passionate about health topic they can sign up in our site and can share their health knowledge with the online world. We have also created a comment section of all the blog. In this section people can suggest and share their thoughts about the post. By reading this visitor of our site easily can understand which post contain most accurate contain and which are not.

To develop this web application we used Core php, which helps us to build this application rapidly. We also used HTML, CSS, Bootstrap, query and JavaScript for better web design and make this site user friendly.

## TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Approval	i
Acknowledgements	ii
Declaration	iii
Abstract	iv
Table of Contents	v
<b>CHAPTERS:</b>	
<b>CHAPTER 1: INTRODUCTION</b>	<b>01-02</b>
1.1 Introduction	01
1.2 Objectives	01
1.3 Motivation	01
1.4 Expected Outcome	02
1.5 Report Layout	02
<b>CHAPTER 2: BACKGROUND</b>	<b>03-05</b>
2.1 Introduction	03
2.2 Related Works	03
2.3 Challenges	05
<b>CHAPTER 3: SOFTWARE REQUIREMENT SPECIFICATION</b>	<b>06-14</b>
3.1 Business Process Model	6
3.2 Use Case Model	6
3.3 Implementation & Requirements	12
<b>CHAPTER 4: DESIGN SPECIFICATION</b>	<b>15-22</b>
4.1 System Environment	15
4.2 Front-end Design	16
4.3 Back-end Design	19
4.4 Testing and Integration	21
<b>CHAPTER 5: CONCLUSION &amp; FUTURE SCOPE</b>	<b>23</b>
5.1 Conclusion	23
5.2 Future Scope	23
<b>REFERENCES</b>	<b>24</b>

## LIST OF FIGURES

<b>FIGURES</b>	<b>PAGE NO</b>
Figure 2.22: Health line Online nutrition site	03
Figure 2.23: Health.com - Online nutrition site	04
Figure 2.24: Health.com - Online nutrition site	04
Figure 2.25: GREATIST - Online health site	05
Figure 2.26: The health Site - Online health site	05
Figure 3.21: System Use Case Diagram	07
Figure 3.22: Use case Add new blog	08
Figure 3.23: Use case Visit Portal	09
Figure 3.24: Use Case of Registration Process	10
Figure 3.25: Use case admin panel	11
Figure 4.21: Home page	16
Figure 4.22: Login panel	16
Figure 4.23: User profile	17
Figure 4.24: Add Blog	17
Figure 4.25: Post View page	18
Figure 4.26: Review and Comment Submission	18
Figure 4.27: Users table	19
Figure 4.28: Review table	19
Figure 4.29: Blog table	20
Figure 4.30: Comment table	20

# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

Nutri Knowledge is an online blogging system project that serves the functionality of an online health tips base Website. The system allows only registered users to login & Add new blog . We also include comment section for all of the post. Only good health tips related post will be approved by admin. The site only approve the topics of real food, stress, sleep, fitness, toxins, natural living, and much more to give people actionable steps to improve family health.

### 1.2 Objectives

The main objective of our project is to teach people about health fact & make a friendly place where people can share their thoughts and problems about their health issues.

The goals of our system are:

- To provide friendly health knowledge gain place.
- Admin will have the total control over the user registration and blog post management.
- Registration Management

### 1.3 Motivation

There are multiple technical mechanism has been discovered in this world. The computer technology is the most excellent among them. Long decades ago, People had use pen and paper for writing information and thoughts. But in this era, automatic mechanism are becoming advanced for solving the fact. There are many health tips based websites are available nowadays but in our site people will share their personal thoughts and knowledge and if they are relative and good for human health then we will approve it.



## **1.4 Expected Outcome**

The Internet has changed the way information is shared and accessed among people. In our project our main focus is helping people by concerned about health fact in their busy life . We want to make a friendly environment so that people can share their thoughts With us and also can discuss about many facts in the comment section . We will only approve those comment or post those are helpful for the users and visitors of the site.

## **1.5 Report Layout**

We know, practical knowledge is more necessary than theory. In our graduation degree we achieve multiple things. This project gives us opportunity to spread our knowledge and implement our thought. By doing this project we are now more confident at our work rather than previous.

First Chapter consists the Introduction, Objectives, Motivation, Expected Outcome and Report layout of the project. Second chapter consists of Project Introduction, Related works and also Challenges of the project. Our third chapter consists of all about Requirement Specification which are Use Case Modeling and Description, Logical Data Model, Design Requirements.

Fourth Chapter narrate our site description which is belonging to Design Specification like Front-end Design, Back-end Design, Interaction Design, Implementation Requirements. Our fifth chapter is consists of Conclusion, Future scope and reference.

# CHAPTER 2

## BACKGROUND

### 2.1 Introduction

“Nutri knowledge” is the application of making better place to learn more about nutrition .our free online post will help to teach users the most important aspects of this essential category of knowledge. From how to put together a great diet to the all types of human diseases. We hope our project will guide people through the science and practice of eating well.

### 2.2 Related Works

#### 2.2.2 Related Works -health line –Online helath blog site



Figure: 2.22 Health line Online nutrition site

Health line- online nutrition site ensure people to teach about nutrition and mental relaxation methods.

## 2.23 Related Works - Health –online health blog site

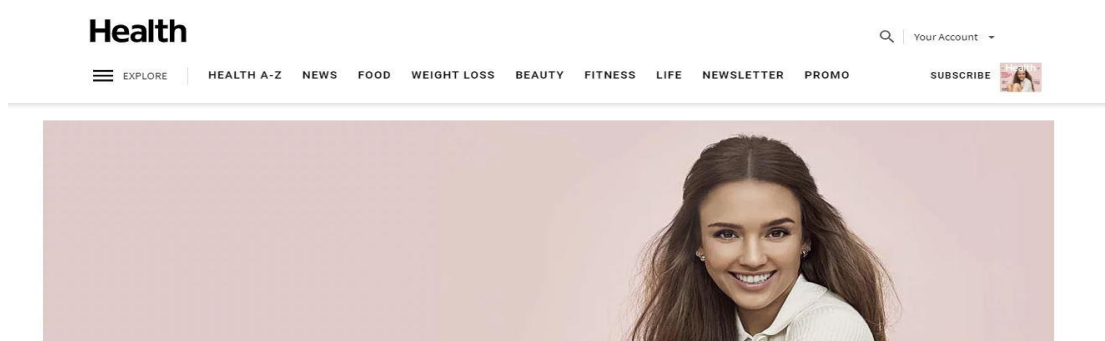


Figure: 2.23Health.com - Online nutrition site

The site include beauty,A-Z health tips, health quotes, direction for improving mental health and also many essential articles for the stressed people so that they can overcome their problems.

## 2.24 Related Works –WebMD –Online health blogsite

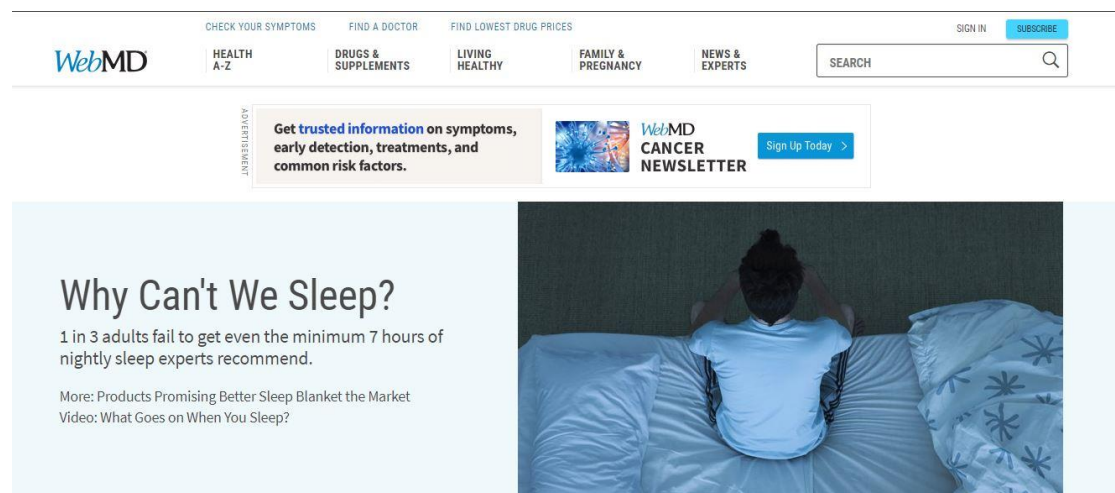


Figure: 2.24Health.com - Online nutrition site

The site include all of the health symptoms, health articles and also include solution of their problems.

## 2.25 Related Works –GREATIST –Online health blogsite



### 63 Must-Read Food, Fitness, and Happiness Blogs for 2016

There's a dizzying number of blogs out there, all tempting us to procrastinate at work. But it's hard to know which sites are truly trustworthy, entertaining, informative, and Pinnable. So we went ahead and scoured the blogosphere to narrow it down to these standouts. They're keeping it real (no #fitspo here), using science to back up claims, always staying positive and inspiring, and delivering content we can't stop reading and sharing.

Figure: 2.25 GREATIST- Online health site

## 2.26 Related Works –GREATIST –Online health blogsite

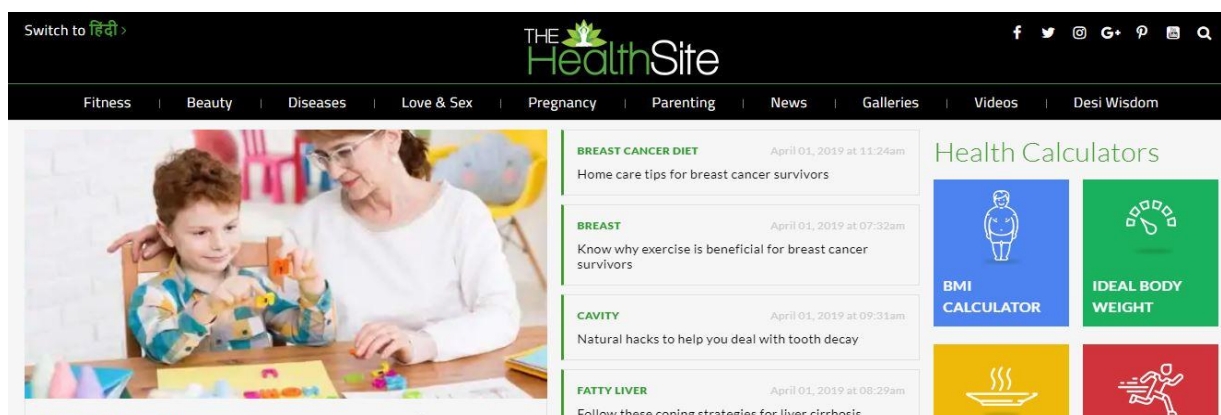


Figure: 2.26 The health Site - Online health site

The site highly focus on the facts-sleeping disorder, pregnancy, fitness, parenting, diseases.

### 2.3 Challenges

The most challenging part of the project was choosing the health tips category (what types of health fact people like most), we have analyzed too many health sites for this issue. And organizing way of data for the project that was also challenging.

## **CHAPTER 3**

### **SOFTWARE REQUIREMENT SPECIFICATION**

#### **3.1 Business Process Model**

For the initial condition our site membership is totally free. If we add video lesson for teaching about health fact then we will add the payment method .

#### **3.2 Use Case Model**

A use-case model is illustration of how different types of users interact with the system to handle a problem. It also describes the ambition of the users, the interactions between the users and the system, and the environment of the system in satisfying these goals. The most significant elements of a use case model are: use cases, actors and the relation between them. This is used for analyzing the entire system specification , features and the primary features of the requirements for the system.

Basic model elements:

- Actor
- Use case
- Association

Advanced model elements:

- Subject
- Use case package
- Generalizations
- Dependencies

## System Use Case:

The system has the following set of use cases. Figure: 3.22 is describing the System use case. Registered User can add blog, add comment on the blog post. If admin found the post and comment is related to the site and blog then admin will approve it. Guest user may visit the portal, view the blog post, search blog list, but can't create a post or any comment in the post.

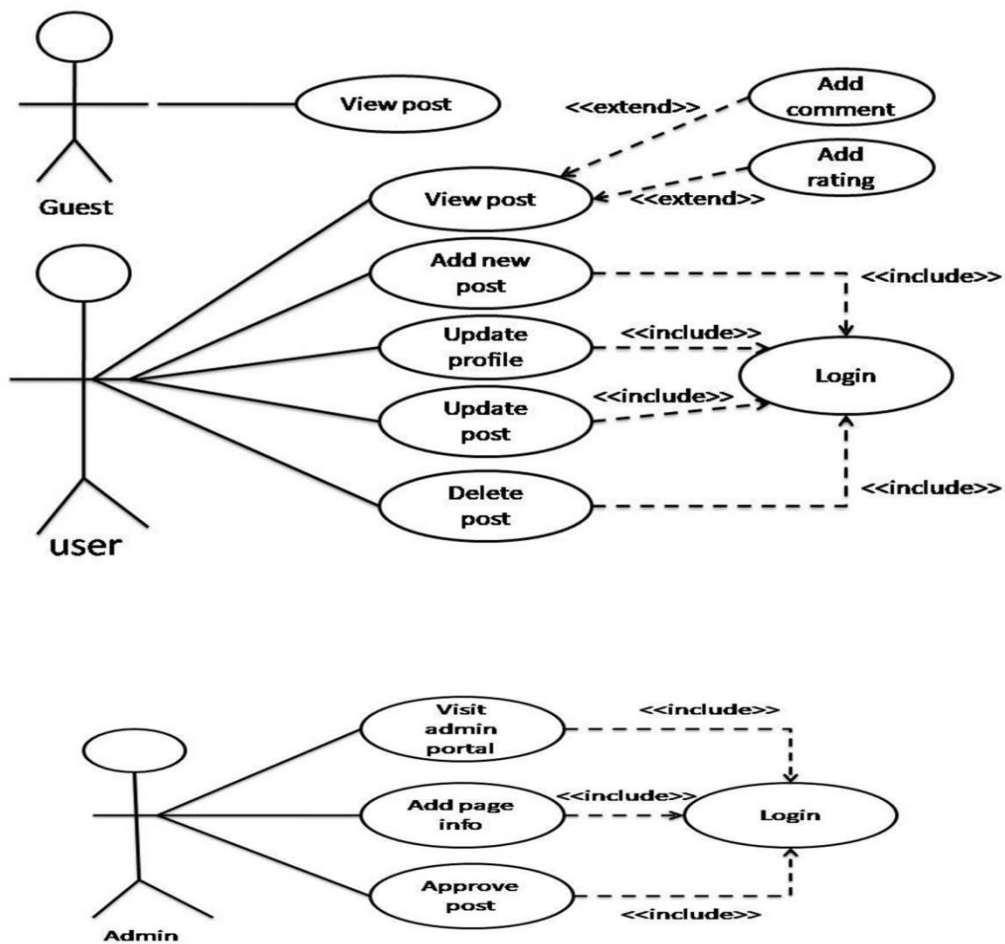


Figure: 3.21 System Use Case

### Use case Add new blog:

After the Log In the registered user can post their blog. Figure: 3.23 describe the add blog use case. The user must add title, description and image for adding a post.

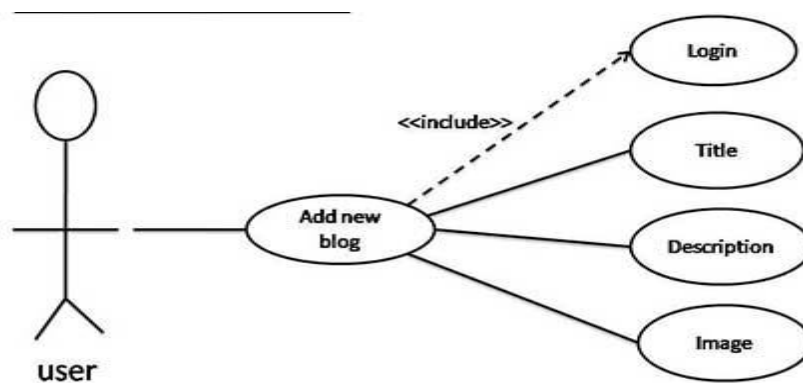


Figure: 3.22 Add new blog

### Use Case Details:

- Use case name : **Add new blog**
- Precondition : Log In
- Actor : User
- Primary Path :
  1. Add title
  2. Add description
  3. Add image
  4. Submit for approval
- Exceptional path : 2.1: exceed the limit of image size, add mew image

### Use case Visit Portal:

Participants can visit the portal without any Log in. Figure: 3.24 describe the visit portal use case. They can view all of the post .

### Visit portal:

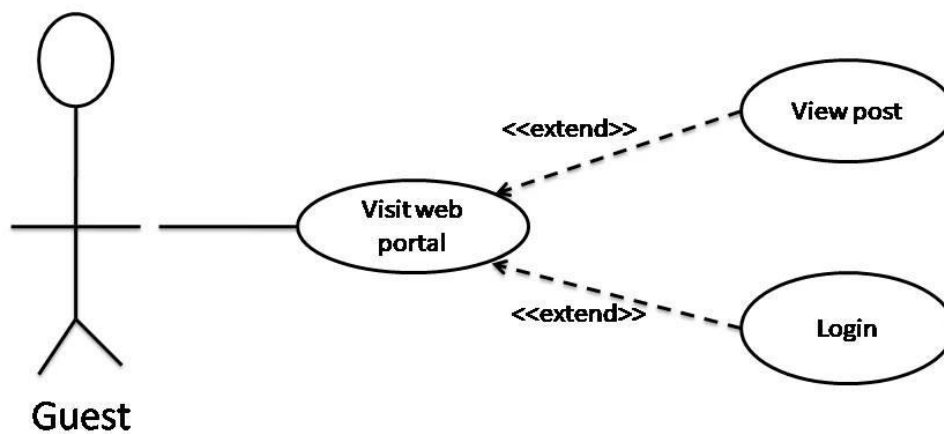


Figure: 3.23 Visit Portal

### Use Case Details:

Use case name : Visit portal  
Precondition : None  
Actor : guest visitor/user  
Primary path : 1. Enter URL  
2. View Post  
3. Search Post  
4. signup for Create Account  
Exceptional path : 1.1 Wrong URL/ Invalid URL , back to



### Use Case of Registration Process:

Those who are wants to be an user they can complete registration process by adding name, email, username and password . Figure: 3.25 describe the Registration Process for participants.

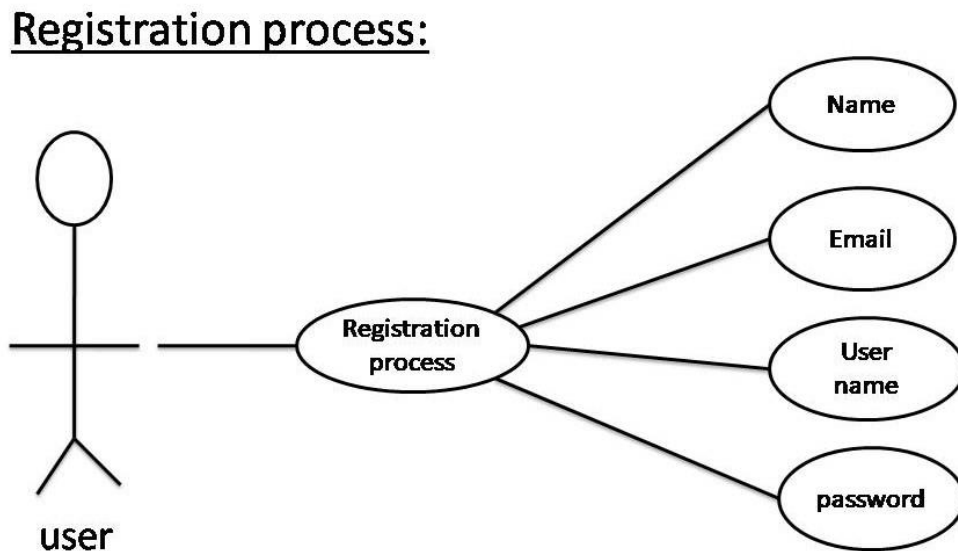


Figure:3.24 Registration Process

### Use Case Details:

Use case name : Registration Process

Precondition : Log in

Actor : User

Primary path : 1. signup  
2. Registration Form

3. Add name

4. Add email

5. Add username

6. Add password

Exceptional path : username has already taken, give another one

### Use case admin panel:

Admin have to approve the post submitted by the user. Figure: 3.26 describe the Approve Registration use case.

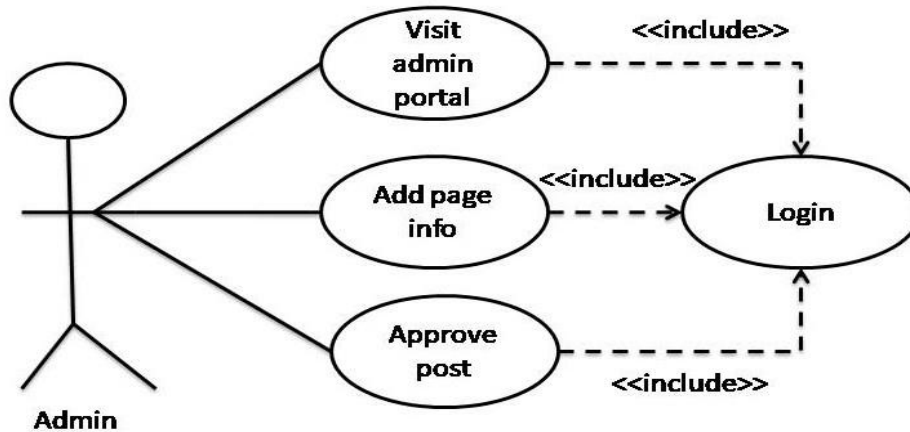


Figure: 3.25 Admin panel

### Use Case Details:

Use case name : Admin Panel  
Precondition : Log in  
Actor : Organizer  
Primary path : 1. Log in  
                  2. Approve post  
                  3. approve comments  
Exceptional path : Invalid Login process, back to step 1

### **3.3 Implementation Requirements**

Before finishing of any project decisions needed to be create on which elements should be used to make the project with. This part will represent how the project deal with all of the elements that is use for making the online system.

#### **Back-End (HTML):**

Hypertext Markup Language (HTML) is used for creating web pages and web applications. Web browsers interact with HTML from a server or from local storage and render the data into multimedia web pages. This help to create main foundation of a website. If we compare it with ms word , in ms word we can write text, change font, font color, size. HTML is also same except it has no GUI. For that it is a markup language, not a programming language.

It can display the document with the exact appearance created earlier.

#### **jQuery:**

jQuery is a very well known JavaScript library created by John Resign in 2006.

It simplifies the web system by handling animation ,ajax calling and interact with all types of web elements. With the virtue of versatility and extensibility, jQuery has changed the path several people code in JavaScript.

Using jQuery there has two paths, Local Installation- can download jQuery library on local device and include it in HTML code and CDN type Version which one can add jQuery library into HTML code from Content Delivery Network .

## **PHP:**

PHP Hypertext Pre-processor (PHP) is an open source Scripting language. The edition of PHP has implemented Object Orientation. This was chosen for the project for a small previous knowledge of the scripting language. Using the language to create some basic input forms and put the incoming values into a database. Most Web Hosting companies provide PHP on their servers and add a MySQL database so the system will be created in PHP and work with a MySQL database to insert and retrieve data that is important for the execution of the entire system.

## **MySQL:**

MySQL is the world's most used open source database, provide the cost-effective delivery of reliable, high-performance and scalable Web-based and embedded database systems. It is based on the structure query language (SQL), which is used for adding, removing, and modifying datasets in the database. SQL commands, such as ADD, DROP, INSERT, and UPDATE can be used with MySQL. MySQL can be used for several types of applications but is mostly used on Web servers. A website that uses MySQL may include Web pages that access information from a database. These pages are called to as "dynamic," means the information of every page is generated from a database time of page loading. Websites which used dynamic Web pages are called to as database-driven sites.

## **CSS(Cascading Style Sheets):**

This is mainly used to control both layout and style of the site. CSS describes how html elements are to be displayed on screen, paper or in other media. CSS saves a lot of time by controlling multiple pages at once. With an external stylesheet file, you can change the look of an entire website by changing just one file. A CSS rule-set consists of a selector and a declaration block:

- Selector
- Declaration
- Property
- Value

A selector has name preceded by a full stop(.) and an Id selector is name preceded by a hash(#) character. After element is selected, a property determines the styles that will be applied to that element. Property names fall after a selector, within the curly brackets, { }, and immediately preceding a colon :.

The advantage of CSS is the added design flexibility and interactivity it brings to web development. Developers have fastest control over the layout allowing them to make precise section-wise changes. Some advantages of CSS are:

- Makes Updates Easier and Smoother
- Helps Web Pages Load Faster

## CHAPTER 4

### DESIGN SPECIFICATION

#### 4.1 System Environment

The Design & Development of “Nutriknowledge” has two active actors. Figure 4.1 describe the system environment. The User and Admin. All actors can access the system through web link. Every Admin has one login id and password through which they can access the system. Users also use the system by their login id and password.

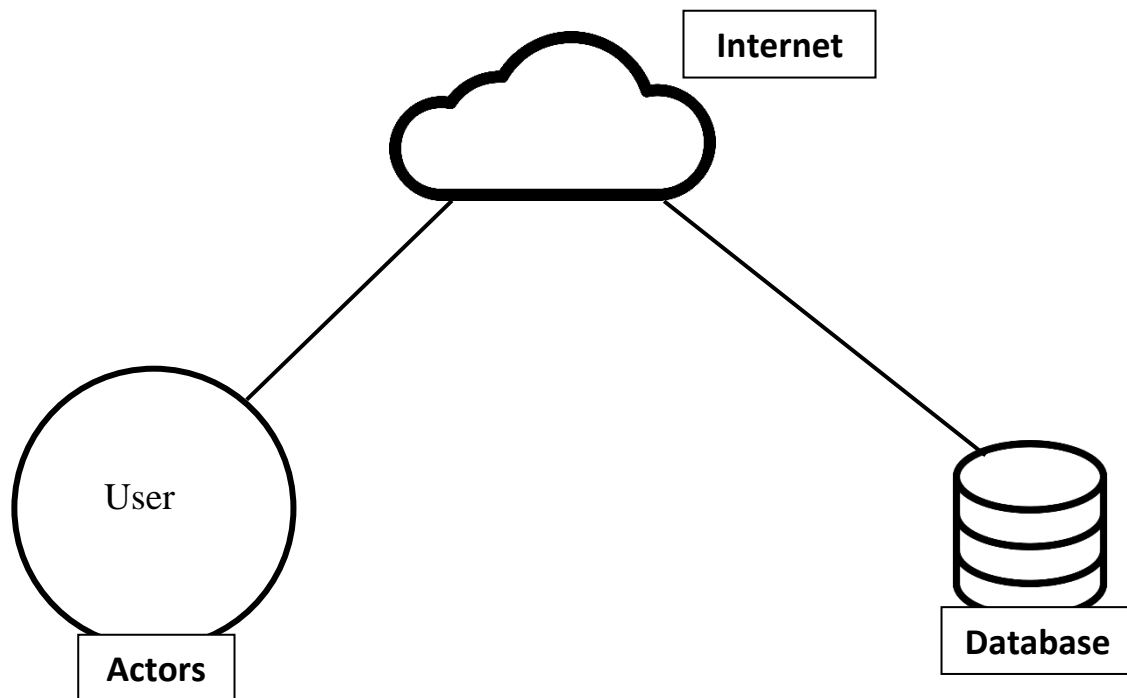


Figure: System Environments

## 4.2 Front-end Design

### Home Page

Figure 4.21 shows the Home Page of the system

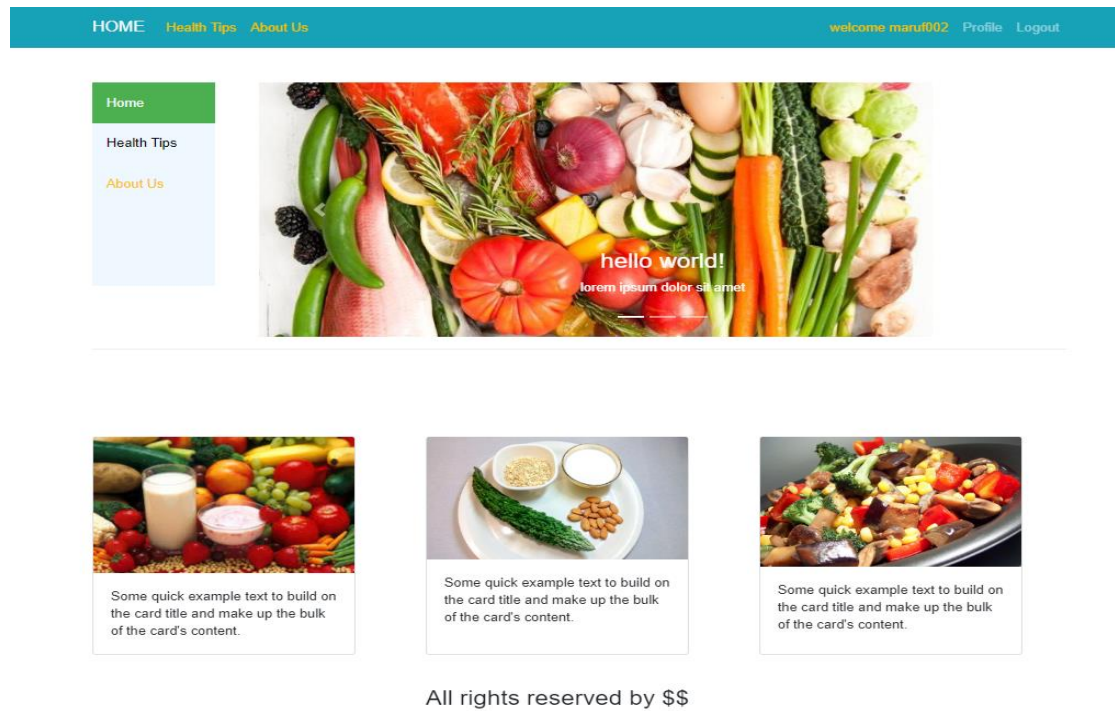


Figure: 4.21 Home Page

### Login Panel

Figure: 4.22 Login Panel for the system

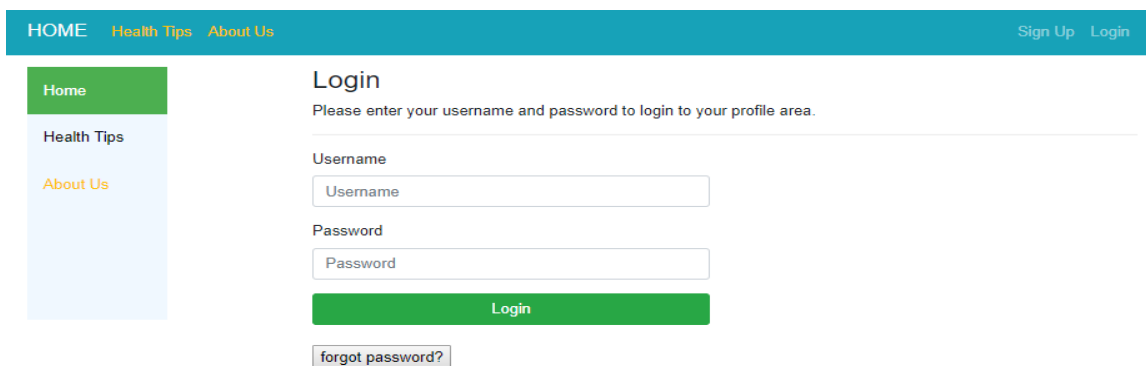


Figure: 4.22 Login Panel

## User Profile

Figure 4.23 shows the profile of a user

HOME Health Tips About Us welcome maruf002 Profile Logout

### Update Your Profile

First Name

Last Name

Email Address


Username

Password

Re-type Password

Profile Image  No file chosen

### Profile Image



Whatever

- [Update Profile](#)
- [All Blog](#)
- [Add Blog](#)

Figure: 4.23 user profile section

## Add Blog

Figure 4.24 shows the blog add section of the system

HOME Health Tips About Us welcome maruf002 Profile Logout

### Add a New Blog

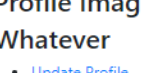
Blog Title

Blog Description

Normal

Blog Image  No file chosen

### Profile Image



Whatever

- [Update Profile](#)
- [All Blog](#)
- [Add Blog](#)

Figure: 4.24 Blog add section



## View Post

Figure 4.25 shows the Post View page of the system

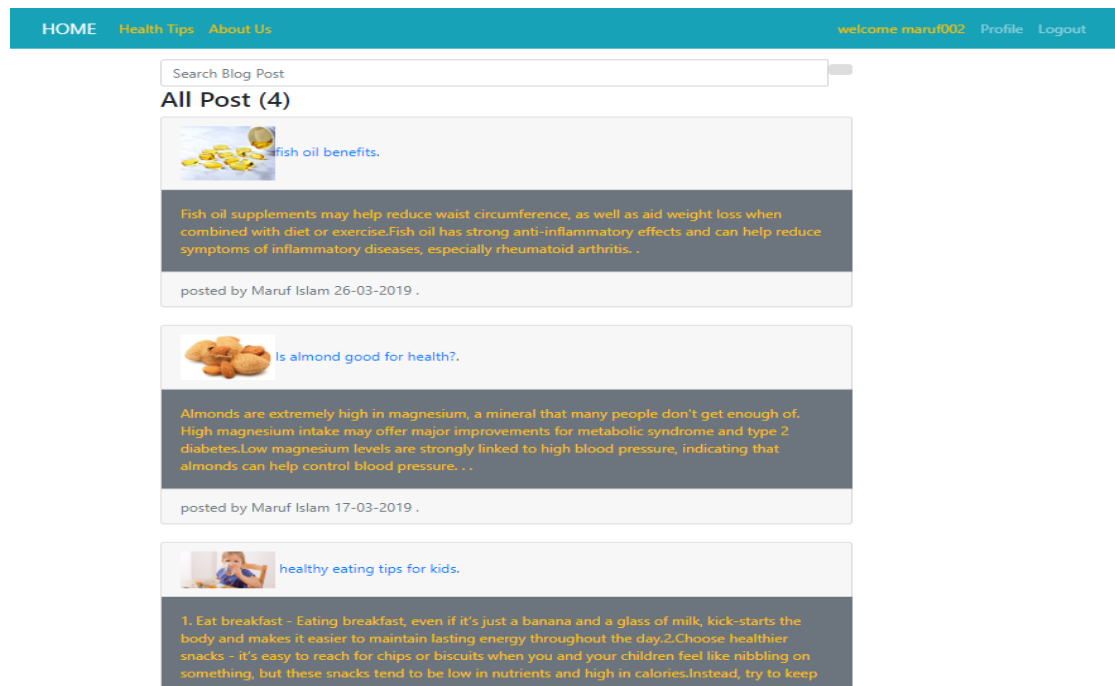


Figure: 4.25 Post View page

## Review and Comment Submission

Figure 4.26 shows the Review and Comment Submission page of the system

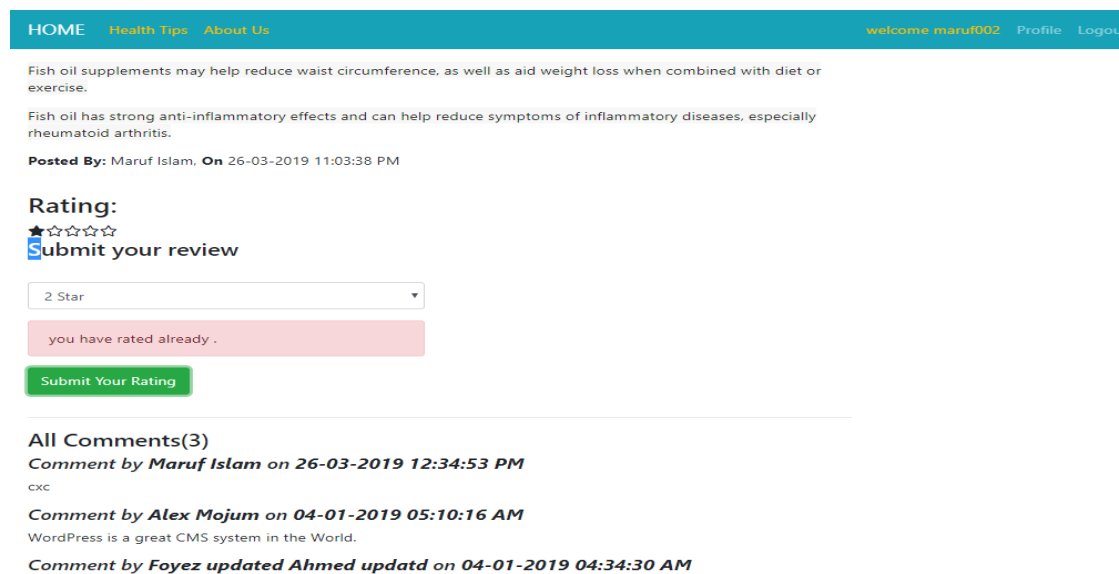


Figure: 4.26 Review and comment

## 4.3 Back-end Design

### Users

Figure 4.27 shows the Users table of the system

	uid	fname	lname	email	username	password	forgot_password	profile_img
Copy Delete	1	Alex	Mojum	alex@gmail.com	alex	ba3253876aed6bc22d4a6ff53d8406c6ad864195ed144ab5c8...		944681.jpg
Copy Delete	7	Alex Updated	Mojum Updated	alex@gmail.com	admin	ba3253876aed6bc22d4a6ff53d8406c6ad864195ed144ab5c8...		
Copy Delete	6	Foyez updated	Ahmed updatd	creativeartbd@gmail.com	foyezbd	b109f3bbbc244eb82441917ed06d618b9008dd09b3befd1b5e... 6cc1fbb6ca92425bb419a1b3e5b9e8da		426689.jpg
Copy Delete	8	Maruf	Islam	mazharul@gmail.com	maruf002	e13efc991a9bf44bbb4da87cbbb725240184585ccaf2705231...		804287.jpg
Copy Delete	3	Rahim	Ahmed	rahim@gmail.com	alex2	ba3253876aed6bc22d4a6ff53d8406c6ad864195ed144ab5c8...		
Copy Delete	4	Rahim	Ahmed	rahim@gmail.com	alex3	ba3253876aed6bc22d4a6ff53d8406c6ad864195ed144ab5c8...		

Figure: 4.27 Users table

### Review(rating)

Figure 4.28 shows the review(rating) table of the system

+ Options				rid	uid	bid	rating	created_time			
<input type="checkbox"/>		Edit		Copy		Delete	1	1	2	3	1545626119
<input type="checkbox"/>		Edit		Copy		Delete	2	6	2	4	1545626337
<input type="checkbox"/>		Edit		Copy		Delete	3	6	4	2	1545626400
<input type="checkbox"/>		Edit		Copy		Delete	4	0	4	3	1545626443
<input type="checkbox"/>		Edit		Copy		Delete	5	199	4	2	1545626517
<input type="checkbox"/>		Edit		Copy		Delete	6	523	3	5	1545627770
<input type="checkbox"/>		Edit		Copy		Delete	7	8	25	5	1553792601

Figure: 4.28 Review table

## Blog Table

Figure 4.29 shows the blog table of the system



Options													
		bid	cat_id	sub_id	blog_title	blog_description	blog_image	uid	created_time	updated_time	status		
<input type="checkbox"/>				15	2	4	Pineapple	<p><span style="color: rgb(91, 91, 91);">Pineapple...	174730.jpg	8	1553598128	0	1
<input type="checkbox"/>				19	4	8	healthy eating tips for kids	<h3>1. Eat breakfast - <span style="color: ...	960703.jpg	8	1553623859	1553624133	1
<input type="checkbox"/>				20	0	0	asas	>	296847.jpg	8	1553626323	0	0
<input type="checkbox"/>				21	0	0	asas	<p>asasas</p>	151439.jpg	8	1553626323	0	0
<input type="checkbox"/>				22	0	0	Is almond good for health?	>	995245.jpg	8	1553627236	0	0
<input type="checkbox"/>				23	0	0	Is almond good for health?	<p><span style="color: rgb(255, 193, 7); background...	317581.jpg	8	1552834644	0	1
<input type="checkbox"/>				24	0	0	fish oil benefits	>	39303.jpg	8	1553627498	0	0
<input type="checkbox"/>				25	0	0	fish oil benefits	<p><span style="color: rgb(35, 31, 32); background...	508991.jpg	8	1553627498	0	1

Figure: 4.29 blog table

## Post Comment

Figure 4.30 shows the comment table of the system



Options									
		cid	bid	uid	description	created_time	status		
<input type="checkbox"/>				4	4	6	Good Post	1546572870	1
<input type="checkbox"/>				5	2	1	WordPress is a great CMS system in the World.	1546575016	1
<input type="checkbox"/>				6	5	1	vcb	1553592833	0
<input type="checkbox"/>				7	14	8	cxc	1553600093	1

Figure: 4.30 Comment table

## **4.4 Testing and Integration**

System testing is an important part. Testing give an interesting anomaly for the system. A series of testing are performed for the proposed system before the system is ready for user acceptance testing. Unit testing is important for the validation of the code produced time of coding phase and hence the ambition is to test the backend logic of the procedures. All functional behave of performance requirements and the exception handling which are not covered during the testing are resolved. Form level and as well as form validations are maintaining all the data entry screens. Program testing is nothing but testing a number of programs that form a cluster to reach a exact goal. Interm of system testing two kinds of errors will occur syntax errors and logical errors.

- Syntax errors have to be corrected before the program is executed.
- Handling of data, improper sequence of program statement

### **Black Box Testing:**

In this testing we provide input to the web system and test the output. There is no need to go for seeing the internal variable in the site and what are the changes created on them for the required output, any invalid input for the above turn to failure in execute the connection between the front end and the back end.

### **White Box Testing:**

It is just the vice versa of the black box testing. There we do not watch the internal variables during testing. In the run time of project it gives the actual idea what is going on the web system. This help recognize immediate bugs and fastest solution for Those.

- **Stress Testing:**

The main goal of stress testing is to verify the stability and reliability of the system. We subject a large amount of data during a very small period of time. This simulates an environment where a max volume of works occurs in rapidly.

- **Cross-Browser Compatibility Testing:**

The project has checked several times in different browsers for ensuring cross browser compatibility. All of the following browsers are checked by us-

- Mozilla Firefox
- Chrome
- Microsoft internet Explorer Version 8
- Microsoft Internet Explorer Version 9
- Opera
- Safari
- Netscape

The main function of a web system is deal with all the coding with server. The system also checked several times for ensuring the structure is similar In different resolution. The design of the project is fully responsive because we use latest bootstrap for the design. The web structure is perfect all of the following resolutions-

- 800 by 600
- 1024 by 768
- 1152 by 864

## **CHAPTER 5**

### **CONCLUSION & FUTURE SCOPE**

#### **5.1 Conclusion**

The design of this project“ Nutri knowledge” is done with the help of HTML, CSS, jQuery, PHP and MySQL Database. Here, Users (with the permission of Admin) can add the blog .The system is developed after processing all the states of system development cycle. The registered people can view the site details, add new blog, comments and review to the post. Permission of any further change is the site is secure with the organization administration.

#### **5.2 Future Scope**

The project" Nutri Knowledge" is designed for the busy people those who have less time for querying about their health fact. In future we want to include some nutrition videos for teaching people about good health issues. This project can be implemented up with some more advancement in future like:

- 1) System supporting in all platform for it can be made.
- 2) Advertising for the international Use.
- 3) Including disease discussion part (querying/asking disease issues from which they are suffering).

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