

# **Fake Review Monitoring System**

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## APPROVAL

This Project/internship titled “**Fake Review Monitoring System**”, submitted by **Md. Sabil Mahub**, ID No: 181-15-1991; **Mehedi Hasan**, ID No: 181-15-1961 & **Rafiqul Alam**, ID No: 181-15-2004 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 13.01.2022.

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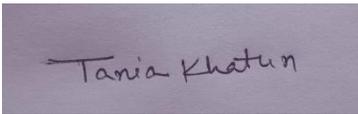
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## PROCLAMATION

We are pleased to inform that we have completed this project under the supervision of Ms. Tania Khatun, Senior Lecturer, Department of CSE Daffodil International University. We further declare that this project or any part of this project has not been submitted for any degree or diploma elsewhere.

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We'd like to express our gratitude to everyone at Daffodil International University who participated in the end-of-course conversation.

Finally, we must honor and acknowledge our parents' and patients' unwavering support.

## **ABSTRACT**

Our project “Review Monitoring System” is based on web platform. The goal of the this application is to catch users interaction in webpage and their reviews. Here every comments and reviews are filtered using code. To remove spam and filter data from web page this platform helps the owner of website a lot. Most of the time automated bot or spam reviews are added in website. For this reason bad impact is imposed on a project. To solve this problem we tried to use simple filtering structure in our project with short algorithm. This project still not smart according to our observations. To make it more smart and intelligent we are continuously work on it.

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# Chapter 1

## INTRODUCTION

### **1.1 Introduction**

We are going under technology evolution and everyday we have to depend on technologies. We use smartphone, digital gadgets, software and websites also. During using of those software and applications we usually notice some unusual and inappropriate comments/reviews by customers, those are not totally good to see. This is embracing and bothering also. This comments or reviews sometimes creates unwanted situations among others. To solve and remove this issue we are going to make a new application. This application will filter user's comment/review on webpage. Using this way a website can be protected from unwanted comments, slang words as well. To make this application we have used most popular and used framework of php language, Laravel. This is more robust, secure and widely used framework in all over the world.

### **1.2 Objective**

- To ensure spam and slang free user reviews in webpage.
- To make website more secure from unwanted users and make it more usable to users.
- To remove bad words from being shown in webpage.
- Admin can delete the review which is fake.
- To get only the delicious foods and can post using review.
- To track the user id of the fake reviewer to remove the fake reviews by System Authority.
- To view only the real reviews to get right products.

### **1.3 Motivation**

In all over the world the content of blogs, websites, applications are increasing. This is why users are commenting and reviewing products/services/specific things. But sometime unauthorized and bad people do some unusual thing which is harmful for websites or an application. This bad words or slang sometime create bothering or embracing in public place that is not expected at all. Our young generations and kids are also using internet nowadays. They are browsing and also using mobile app. If they face these types words during of use internet, that will do bad impact on them.

This situation can harm their mental health and they can be migrated to bad way. To solve this problem our application will filter every used words in webpage and make it more better.

#### **1.4 Expected Outcome**

- Ensuring spam free internet.
- Ensuring slang free content.
- Make clean internet for all.
- To develop smart way for people so that no harm is occurred.
- To enable human mind for identifying bad/good words during browsing internet.

## **CHAPTER 2**

### **Background**

#### **2.1 Preliminaries/Terminologies**

Data can be manipulated in a web page in many ways. This data can come from server or from user ends. This is not always good to believe user's input in application. That can be web or mobile application. User can do anything if he/she finds any hole in a webpage. If he wants he can hack, remove database or even sometimes they can delete full contents of a website. To solve this error we have made a solution that process and validates data before it saves to database. In this way, there will be no possibility of saving unwanted and spam data in database system. This will help our application more secure and user friendly also.

#### **2.2 Corresponding Works**

More review system researchers have explored and produced new apps for project creation. The majority of these aren't compatible with our system. However, we have attempted to focus on several characteristics in order to include those benefits into our system. These are the following:

GitHub: GitHub is a widely used platform for sharing and storing open source projects. There are numerous management solutions that are both useful and efficient. It is also quite well-liked all across the world. It is not intended for the general public. It is primarily useful for programmers.

Overflow of the stack: Stack overflow is one of the most common issues. It phased out the top spot for free acts of assistance to the developing community, which is as popular as issue tracking websites.

#### **2.3 Comparative Analysis**

Fake review system is a combined work that reviews user's comment and data those are posted though text box. Most of the site such as facebook, stack overflow and even google related websites never accept wrong or bad words as well. In modern world people are using several websites and apps. Those website and apps are having a lot of public comments as well as post. Social websites

such as facebook, linkedin, twitter special system for detecting fake comment or spams. This way these website protect their website from unwanted comments. From this perspective we have similarity between this website and OUR web application.

## **2.4 The Problem's Scope**

For most websites and web apps, the problem is far broader and more serious.

## **2.5 Obstacles**

Every aspect of our lives is confronted with difficulties. Finally, I had to deal with a slew of project complaints. Here are a few challenges to think about.

- Ensure that the site's database is robust.
- Updating and maintaining the website is challenging.
- Validate data and confirm facts.
- Increased public awareness.

## CHAPTER 3

### Design Requirements

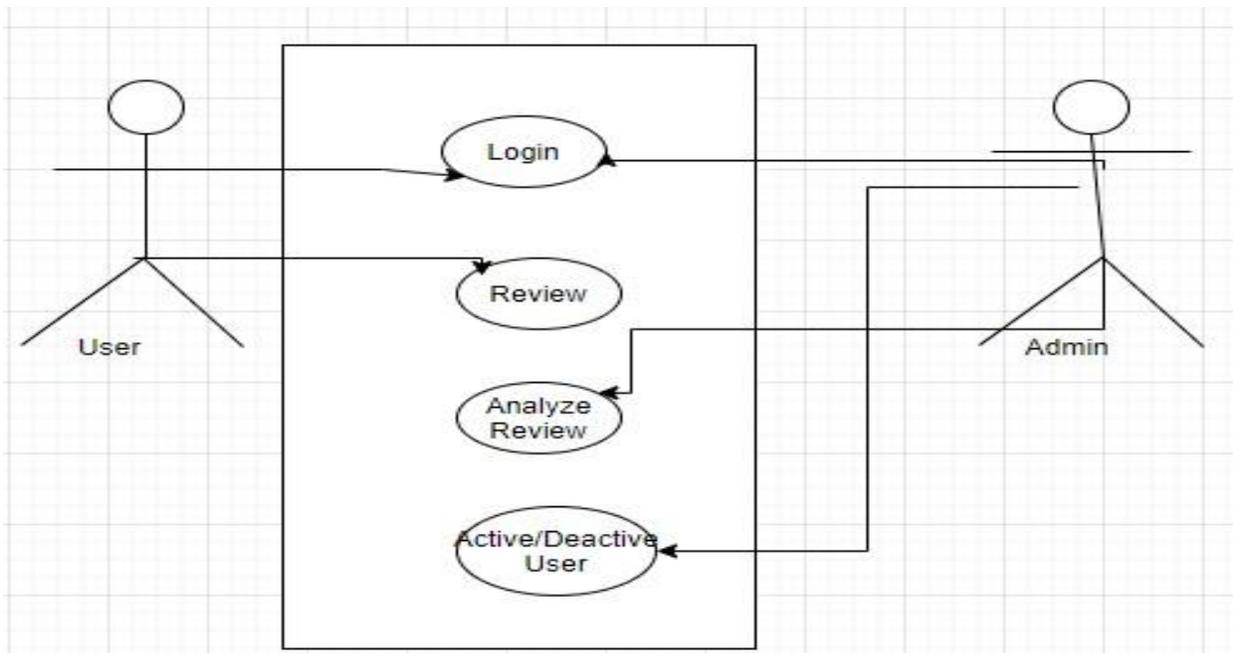
#### 3.1 Analysis of Design Requirement Collection

Despite the fact that various challenges and extremely expected requirements were gathered during the implementation of the data manipulation tool,

1. The admin and reviewer roles are retained in this use case model.
2. A valid email address is required for enrolment, as well as a valid email address to reset your password.
3. For uses, you'll also need an account log in.
4. Anyone can access and view this project by logging in.
5. The administrator has complete control.

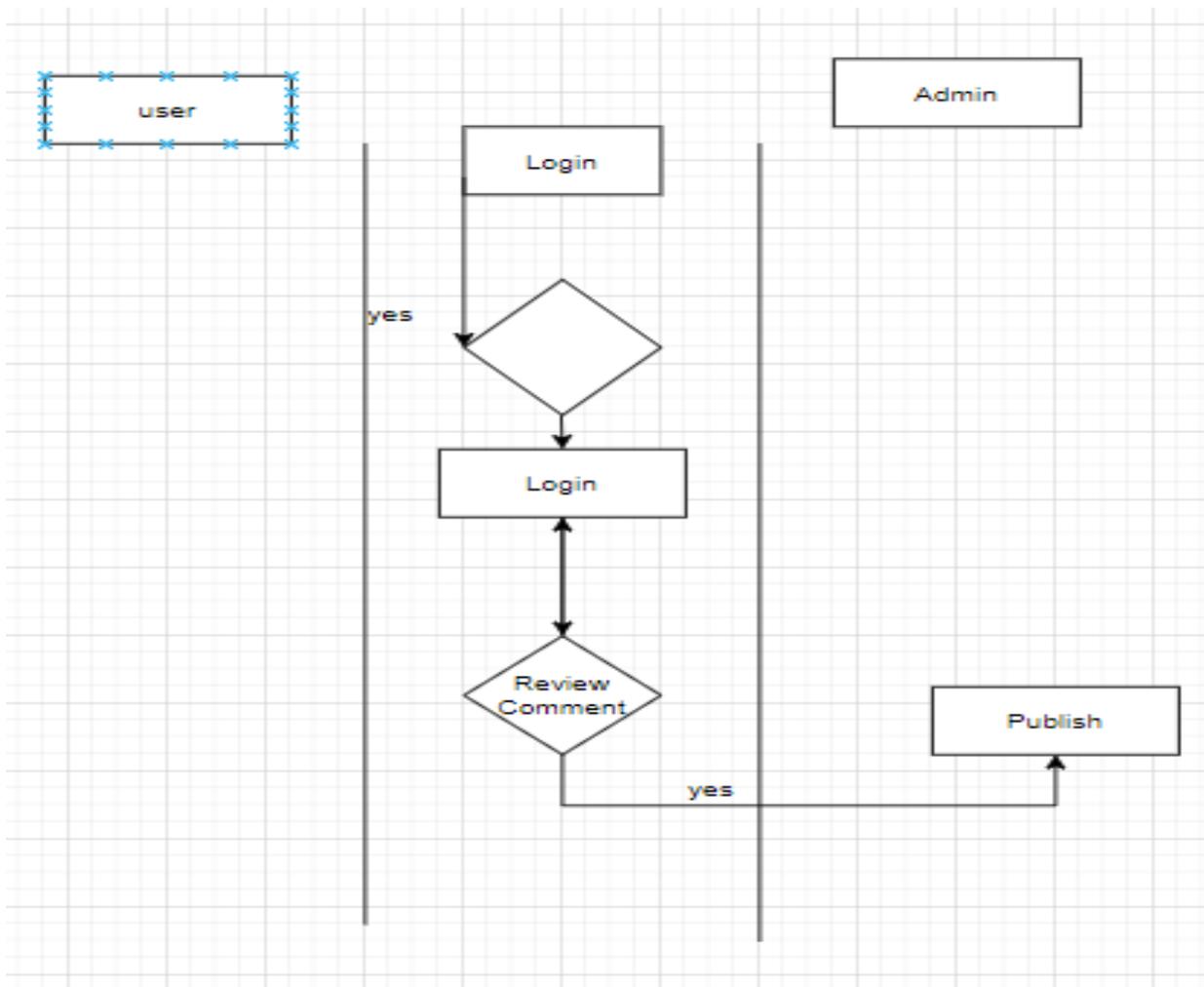
#### 3.2 Use Case Models

Models for this use case we can see, user login in our web site. they do review about the foods or restaurants. User can do good reviews and bad reviews. So admin can analyze their reviews and admin can publish it or delete it. If user do fake review admin can block him.



### 3.3 Logical Data Model

In this logical data model we can see user and admin's work. User can log in our web site. They can login and comments in our foods and restaurants. Admin can see their comments is it bad or good? If that comment is good admin can publish this comment. In this logical data model a user come to our web site and see our foods and restaurants. User do good comment on foods or restaurants. This comment go to to the admin panel and admin published it.



### 3.4 Design Requirement

Design the UI layout of an application. For making ui and design we have used html, css and javascript also. This will interact with backend php coding and user will use several button, section and so on from this design. Design is finalized using lot of analysis and works.

# CHAPTER 4

## DESIGN SPECIFICAION

### 4.1 Front-end Development

The front-end layout of a website is the level of presentation. The aesthetic attractiveness of the website is highlighted. Front-end development The following languages are used: HTML, CSS, and JavaScript. The development site is plainly visible to the user. This is critical for the construction of a website. Front-end design is the first phase in website development. I created a front-end layout that allows all users to connect to the software quickly.

#### 4.1.1 Admin Login Panel

Our project's admin login page can be found here. Here we can see it is our admin login panel. We use it by our admin mail id and our secure password. We have also password recovery option. If admin forgot his password he can use this option and recover his password by himself.

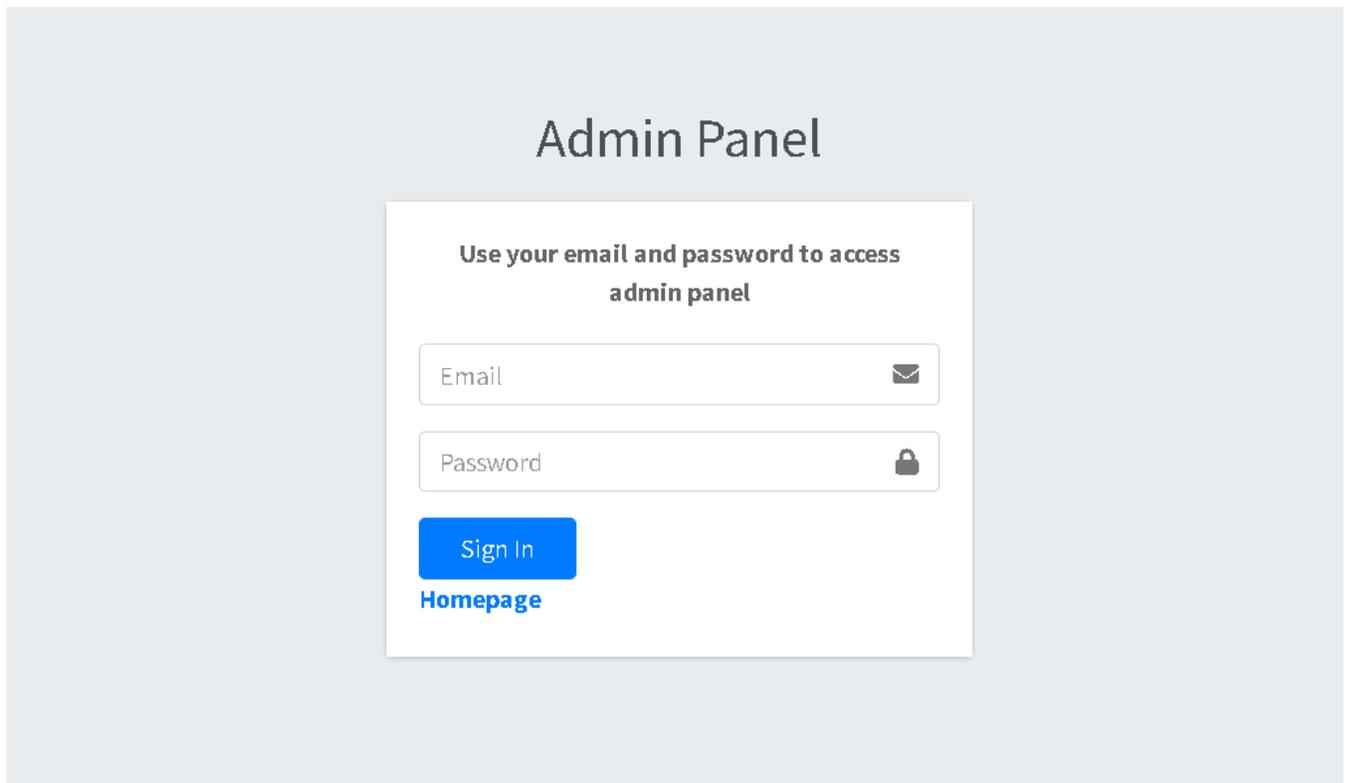


Fig. 4.1.1 Admin Login Panel

## 4.1.2 Website Overview

The front side of our projects website are showing here. From here we can go the offer site to get the proper information of each & every Information of each restaurant, can go the restaurant side to check how many restaurants are available & how many food are available in every restaurant, can visit the foods site to check the foods in total. Besides people can go the blogs section to check the places we have, that's are overview of advantages. We can visit our social site like facebook, twitter, Instagram to checkout everything from here. The most important use that people can do is to find whatever they need to search from here.

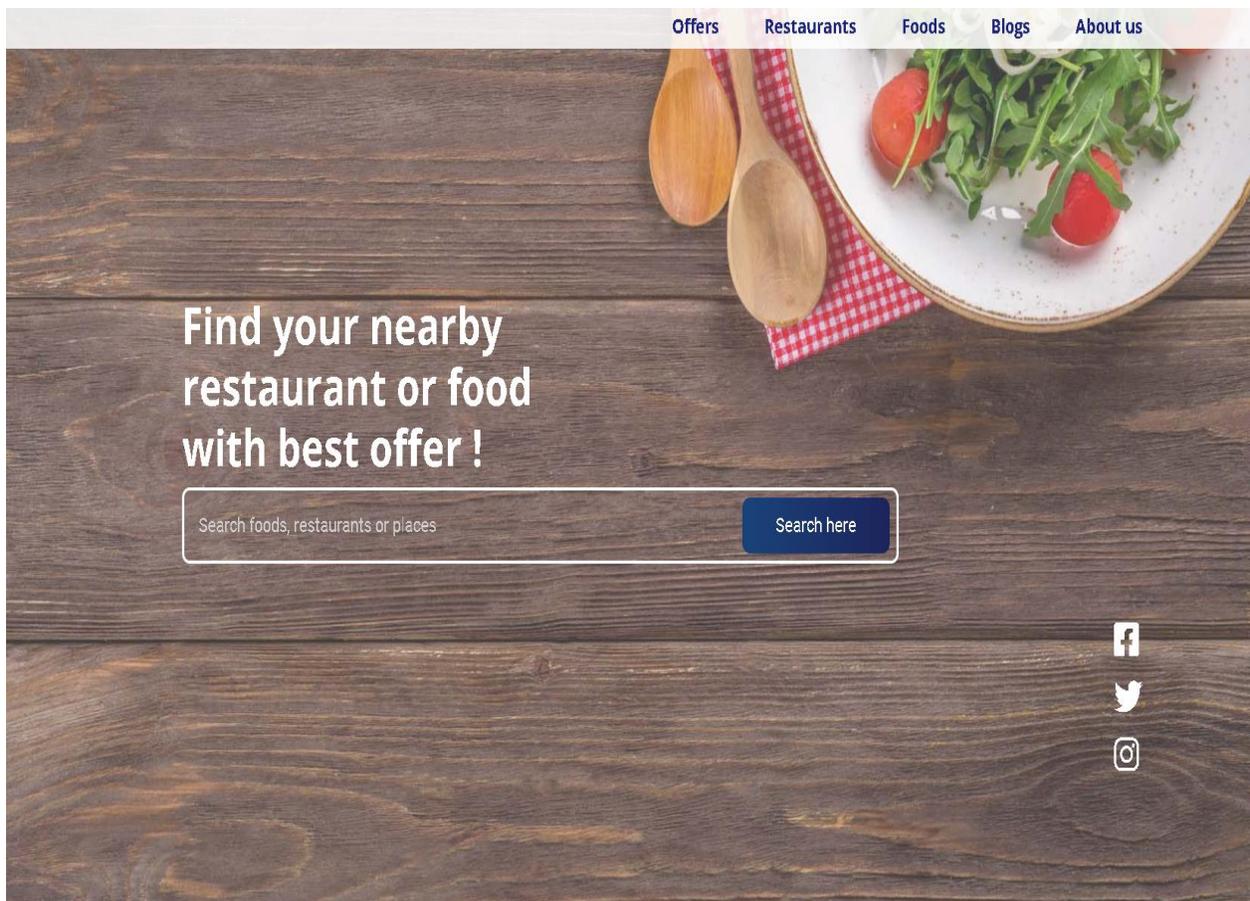


Fig. 4.1.2 Website Overview

### 4.1.3 Restaurants

We have added many restaurants here and can visit each restaurant from here to get the classic information & reviews of the restaurant and the food qualities of the restaurant. Basically we tried to make easier for the user to find and give reviews.

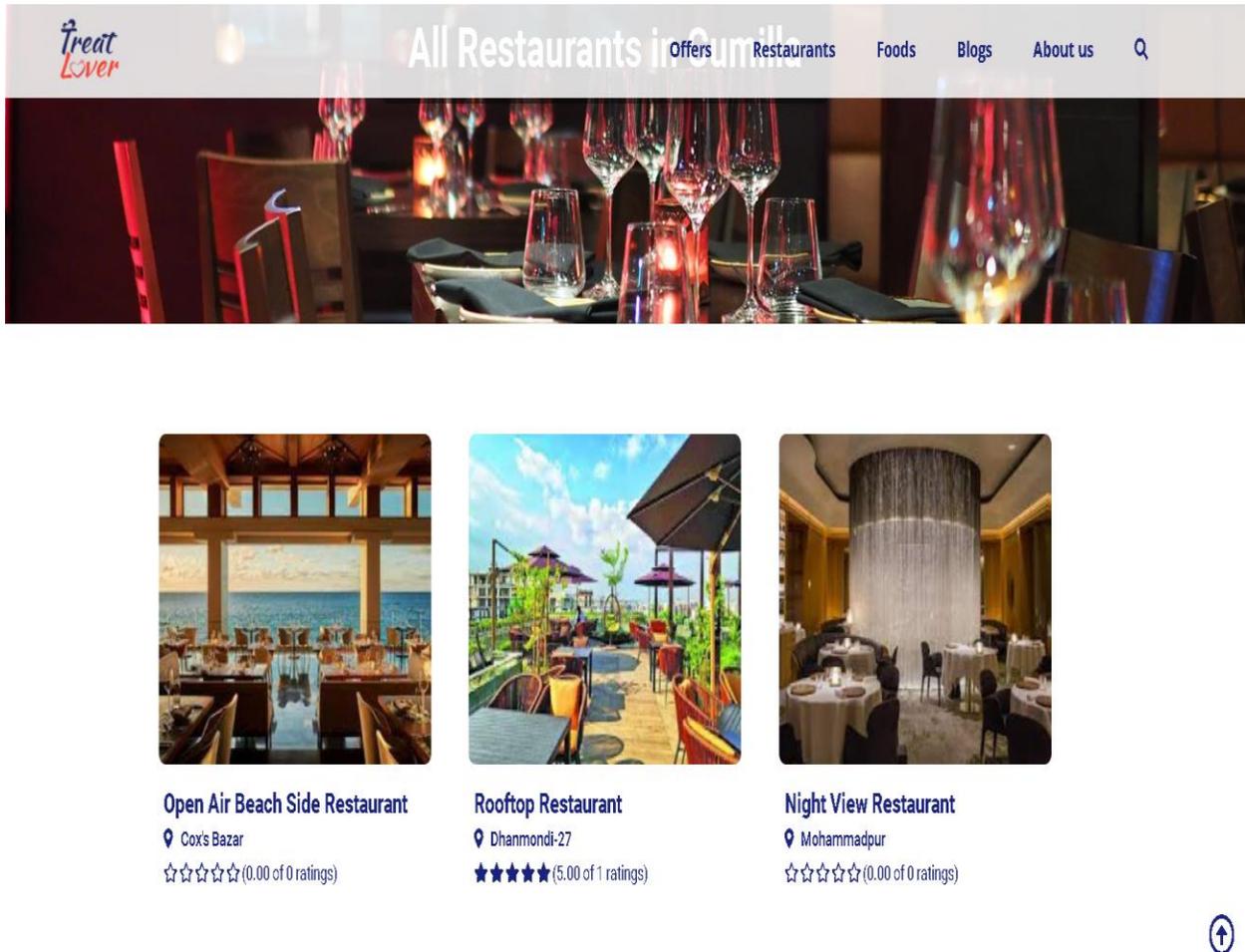


Fig. 4.1.3 Restaurant

### 4.1.4 Food Page

We have added many foods here and can visit each food from here to get the reviews of the food of others and the food qualities of the restaurant. People can find the food details as like price, quality, available restaurant, rating etc. here we tried to give people another facility that they can easily give us their requirement suggestion to get as like the Choice.

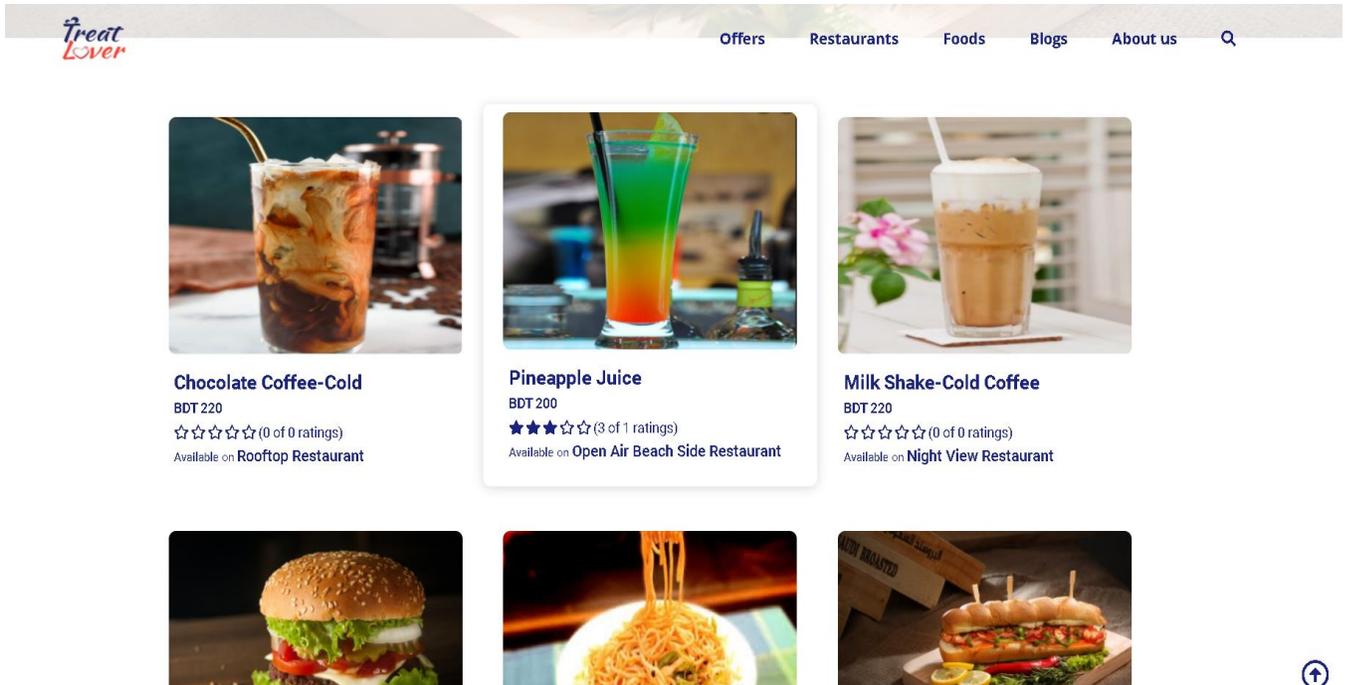


Fig. 4.1.4 Food Page

### 4.1.5 Food Page Review

Food page view. Here we can see a food picture. User can review here about this food. Under this picture user can submit their precious review about this delicious food. They have use their name, mail id and their review. And they can click in star marks.

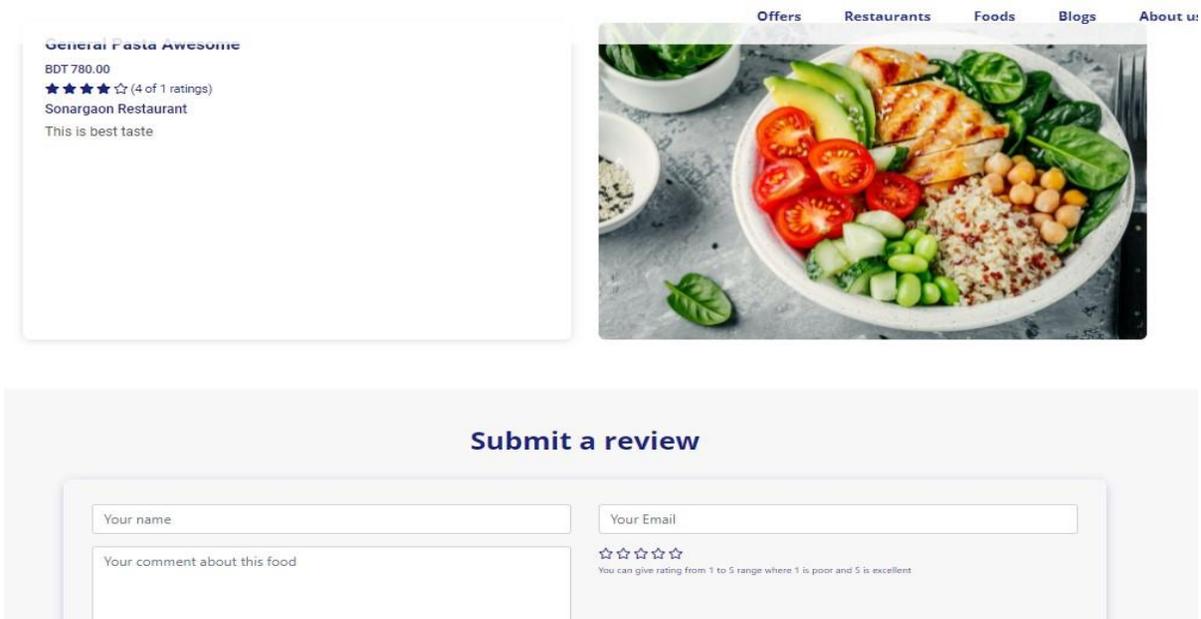


Fig. 4.1.5 Food Page View

## 4.1.6 Blogs

Here we have attached pictures of some restaurants of our Foreign location Where locations are special and how people can benefit here is described in detail. In this way, people will be interested to visit these places by knowing the specialties of this place.

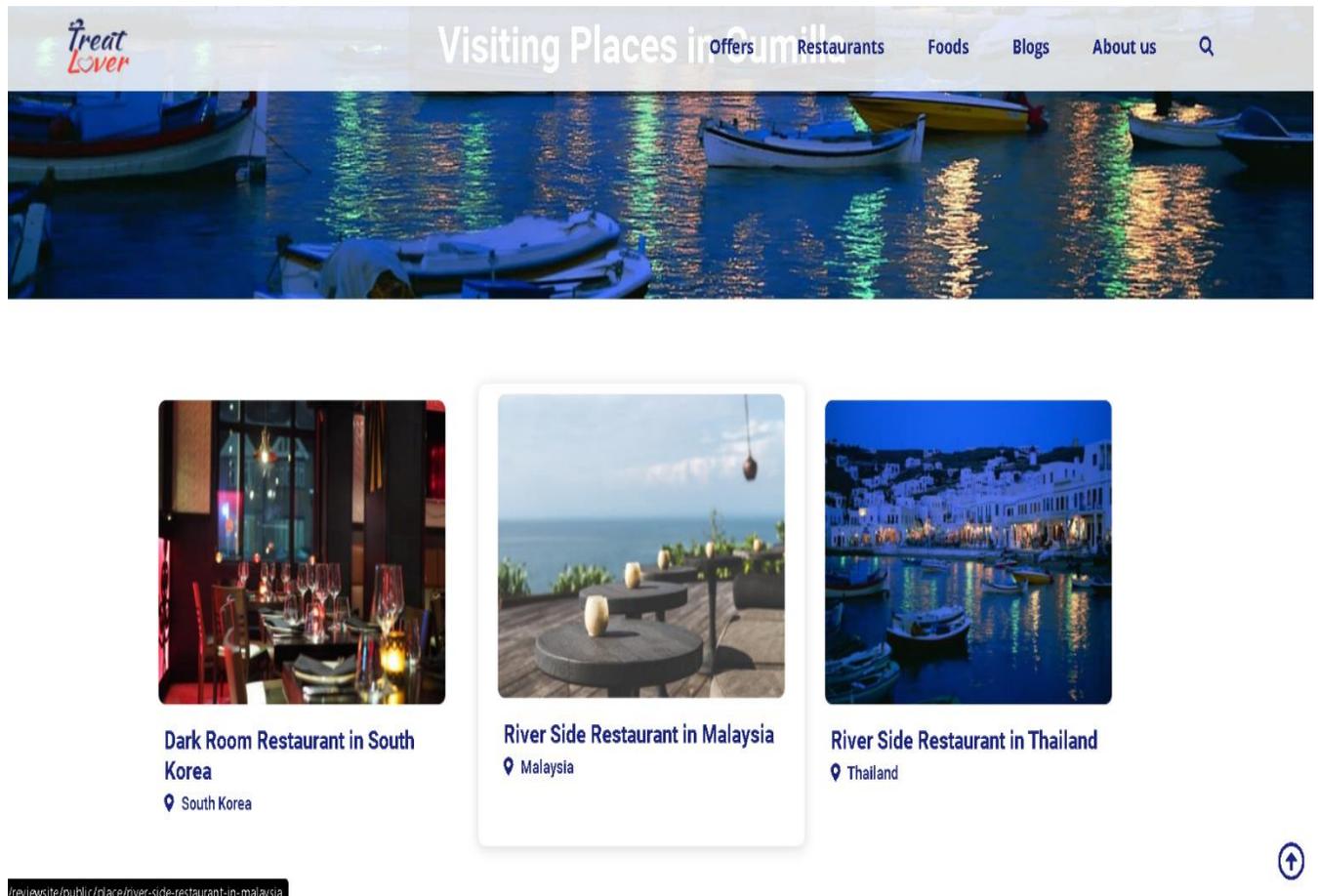


Fig. 4.1.6 Blogs

## 4.1.7 Admin Panel

Here we can see our admin dashboard. We can see many options in dashboard. Admin can maintain all security from this dashboard. Admin can see separately food reviews and restaurant reviews. If user do bad reviews about foods and restaurants admin can see it and delete it. If user do good reviews about foods and restaurants admin can published it. We use more option like offers, places, restaurants category etc. User can see food offers , places also.

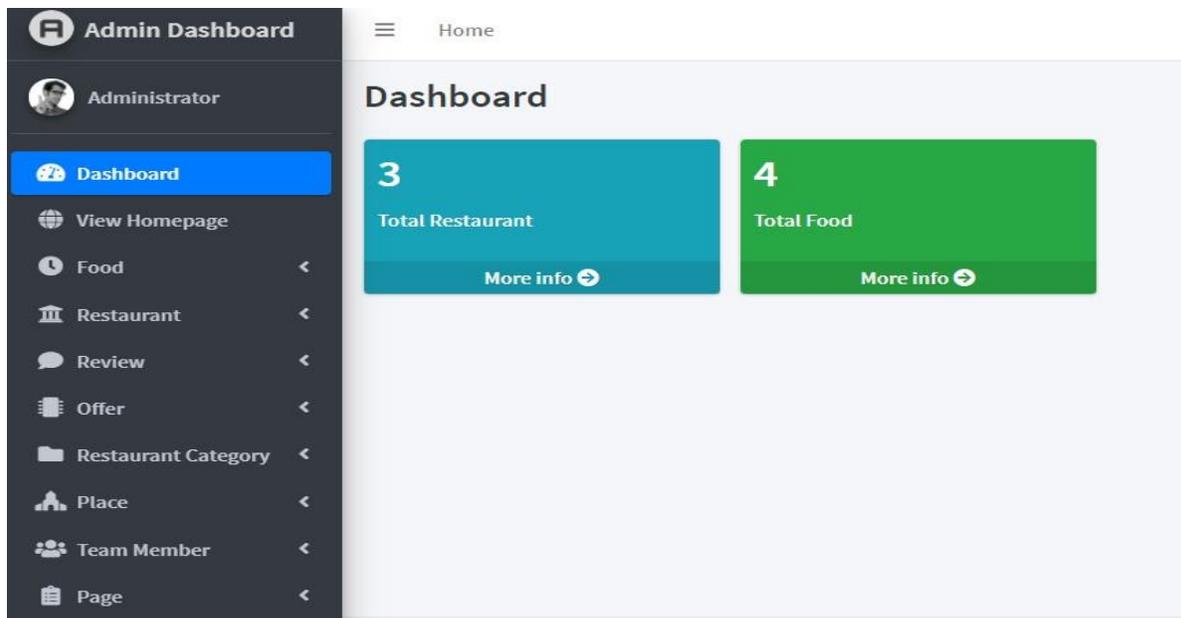


Fig. 4.1.7 Admin Dashboard

### 4.1.8 Review list in admin panel

Here is the user’s review page where admin can get the website food review and monitor them. This is our project final result. Here we can see some reviews in this figure. Now we will discuss about this. In this figure we can see some bad reviews. Now admin will decided that which review will be allowed or not allowed. If user do bad review admin can delete this review. If user do good review admin can publish this review.

The screenshot shows the 'Food Reviews' section of the admin panel. It contains a table with the following data:

Serial	Name	Food	Email	Restaurant	Comment	IP	Date	Action
1	MEHEDI HASAN	Chiesene Burger	mehedi15-1961@diu.edu.bd	Creme de la Creme Coffee	this food is bullshit taste	103.106.241.50	20/10/2021 12:23:59am	Published Delete View
2	sabil	Chiesene Burger	saaw@gmjs.com	Creme de la Creme Coffee	fuck test	103.136.202.57	09/10/2021 08:43:20pm	Published Delete View
3	test	Third Food	test@gmil.com	Sanja Restaurant	fuck test	103.96.36.170	09/10/2021 08:43:08pm	Published Delete

Fig. 4.1.8 Review list in admin panel (food)

Here is the user's review page where admin can get the website restaurant review and monitor them. This is our project final result. Here we can see some reviews in this figure. Now we will discuss about this. In this figure we can see some bad reviews. Now admin will decided that which review will be allowed or not allowed. If user do bad review admin can delete this review. If user do good review admin can publish this review.

The screenshot shows an Admin Dashboard with a sidebar on the left containing navigation links: Dashboard, View Homepage, Food, Restaurant, Review (highlighted), Offer, Restaurant Category, Place, Team Member, Page, and Setting. The main content area is titled 'Restaurant Reviews' and features a search bar and a table of reviews. The table has the following data:

Serial	Name	Email	Restaurant	Comment	IP	Date	Action
1	mr. k	k@gmail.com	Night View Restaurant	Fabulous Item & Awesome Place.	:1	13/01/2022 09:36:27pm	Published, Delete, View
2	Md. Sabil Mahbub	sabil15-1991@diu.edu.bd	Cool Road Side Restaurant	nice	:1	13/01/2022 10:43:46am	Published, Delete, View
3	mr. r	r@gmail.com	Rooftop Restaurant	It's e nice place	:1	13/01/2022 03:06:35am	Published, Delete, View

Below the table, it says 'Showing 1 to 3 of 3 entries' and includes 'Previous', '1', and 'Next' navigation buttons. The footer contains 'Copyright © TreatLover Dashboard. All rights reserved.' and 'Version 1.0.0'.

Fig. 4.1.8 Review list in admin panel (Restaurant)

## 4.2 Backend Design

The gradual component of the software is responsible for the back-end layout. This is the software's heart. As a wall, there are multiplier structures such as scripting language or server-side language, spontaneity, immunity, probation, data term identity, data validation, and data backup. For this project, I used raw PHP and the Laravel framework.

### 4.2.1 MySQL

The most widely used application is MySQL. It's a database that's free to use. This database is used by everyone on their system. It can work with any programming language, including PHP, Python, Java, C#, and others. It is exceptionally vital to get it the database some time recently learning MySQL. A database is an application that stores the organized collection of records. It can be

gotten to and oversee by the client exceptionally effortlessly. It permits us to organize information into tables, columns, columns, and files to discover the pertinent data exceptionally rapidly. Each database contains particular API for performing database operations such as making, overseeing, getting to, and looking the information it stores. Nowadays, numerous databases accessible like MySQL, Sybase, Prophet, MongoDB, PostgreSQL, SQL Server, etc. In this area, we are progressing to center on MySQL primarily.

### **4.3 User Experience Design and Interaction Design (UX)**

User experience (UX) is critical when dealing with online applications and other programs. The user experience of an application refers to how a user interacts with it. “User Experience Design” is often used interchangeably with terms such as “User Interface Design” and “Usability”. However, while usability and user interface (UI) design are important aspects of UX design, they are subsets of it – UX design covers a vast array of other areas, too. A UX designer is concerned with the entire process of acquiring and integrating a product, including aspects of branding, design, usability and function. It is a story that begins before the device is even in the user’s hands.

### **4.4 Implementation Requirements**

For implementing requirements it is needed to sketch and noted down everything. Then initial stage it needs to design the whole process and then it needs to development through coding. Software implementation plans are used to properly manage the process of deploying new software or updates. This plan divides the implementation process into smaller milestones and defines the implementation timeline and required resources.

### **4.5 Prerequisites for implementation**

- As a web programming language, the project must be run in raw PHP.
- MySQL is a popular database.
- The hosting service should be Linux-based.
- Access to the database storage was denied.
- The form is validated using JavaScript
- The Laravel Framework was utilized to create the front-end design.

## **Chapter 5**

### **Implementation and Testing**

#### **5.1 Implementation of Database**

On request, a database is utilized to transmit data to a user's page. For easy use and maintenance, To save data for future requests, we used MySQL.

- Set up the database administration software and get it up and running.
- This way of operation.
- To create a database and a table of data.
- in conjunction with the application

#### **5.2 Implementation of Front-end Design**

For conversations with the app, we have both a backend and a frontend. There are some menus and images on the first page, as well as some more layouts with text. The navigation menu, once again, contains the most significant section of the website. By clicking with the mouse, The user may easily navigate through the app's various components.

#### **5.3 Testing Implementation**

Here, I've created a good user interface for the best candidates' expertise in order to build my system. In this project, I utilize an icon, a text link, and a button to make things easier. This is a user-friendly project. Test execution The process of developing and prioritizing test procedures, generating test data and optionally preparing test exploits, and writing automated test scripts. This is when tests are sorted and prioritized, and test designs are made in terms of test cases, test procedures, and test data.

#### **5.4 Test Results and Reports**

This is a method of analyzing the performance of a system in which the tester or system builder evaluates the example to see if it is applicable and if there are any limits.

## **Chapter 6**

### **Impact on Society, Environment and Sustainability**

#### **6.1 Impact on Society**

In this modern world the internet is using a lot. People are continuously using and data of several websites, applications are increasing. That's why spam and bad contents are also increasing. To remove and solve this issue our fake review monitoring system will help a lot. This will filter and sort out orders. That's why the users will get pure contents from the web.

#### **6.2 Impact on Environment**

This will impact on the environment and our surroundings. This will reduce spam and internet environment will become clean and trustworthy. Some of the corporation which post a fake reviews on the foods or restaurants and the consumer will be caught. The current technique fails to do this accurately. Also when an identical user keep on posting the fake reviews again and again then they are the same, the existing system can't find it precisely. The user can get genuine reviews about the food they wish to purchase. The user can submit their review about the foods and restaurants they have purchased.

#### **6.3 Ethical Aspects**

This project will enrich our minds from ethical aspects. The person who will use this app will get warning and some error message during posting bad words or doing spam. This will prohibit to him/her from doing bad things.

Significant growth of the Internet makes e-commerce business is becoming increasingly competitive and requires areas of innovation that can be developed into competitive value. Using multidimensional approach for website evaluation, areas of innovation can be identified and developed into website development plan.

## **6.4 Sustainability Plan**

This app has a long-term benefit. We are trying to add some extra features and solution to this application for long time sustainability. Hope that, this will help our app to cope with long run in the future.

Evaluation is conducted using questionnaire survey with young people, who regularly access internet, target respondent. Result from survey is analyzed using multidimensional approach that consists of usability testing and user feedback. Main goal from analysis is to identify innovation areas of opportunity to increase user satisfaction and create competitive values of company.

Final result of this study is set of recommendations that should be implemented by E-commerce website to improve company performance. Recommendations consist of web concept formulation and web features formulation that are needed to modify web system.

## **Chapter 7**

### **Conclusion and Future Scope**

#### **7.1 Discussion and Conclusion**

Eventually, we crowned our task of making Fake Making Review System using web application. Making spam and fake content free internet is always recommended. To cope with this requirements, our project will play a great role we hope. Our daily used software or applications will always be user friendly and secure, this is the main motto of our web application . Finally, we finished our task of making Fake Making Review System using web application. Making spam and fake content free internet is always recommended. To cope with this requirements, our project will play a great role we hope. Our daily used software or applications will always be user friendly and secure, this is the main motto of our web application. We derive an aggregated behavior scoring methods for rank reviewers according to the degree that they demonstrate spamming behaviors. We found that here proposed methods generally outperform the baseline method based votes. We further learn a regression model from the user labeled ground truth spammers.

#### **7.2 Scope for Further Developments**

The internet is cutting-edge technology. This technology lets anyone with a computer or smart device to access the Internet from anywhere. In the future, we may add more features to this app.

- Support systems can be developed as Android and iOS apps.
- Putting together a live chat system.
- Putting together a payment system.

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- <https://www.ijtsrd.com/papers/ijtsrd21644.pdf>
- <https://www.jncet.org/Manuscripts/Volume-8/Issue-4/Vol-8-issue-4-M-87.pdf>