

WEB- APPLICATION FOR Rating and Performance Measure- Best Made

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WEB-BASED SITE FOR PRODUCT RATINGS REVIEW.

Sumaiya Akter

This project/report submitted
to half of fulfillment for the necessity
of the degree of
Bachelor of science in computer science and engineering

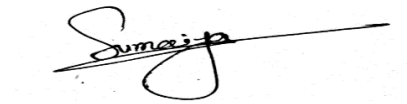
UNIVERSITY OF LIBERAL ARTS BANGLADESH
Dhaka- Bangladesh

October 20

DECLARATION

First, I would like to declare that the “*Web application for product review, ratings and performance measure site*” is the result of my own search and experiences on the concept of references. But this report is important because this is not yet submitted from anywhere.

Signature :

A handwritten signature in black ink, appearing to read 'Sumaiya', with a long horizontal stroke extending to the right.

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Date : October 10, 2021

CERTIFICATE OF APPROVAL

The project report/ project named “*E-Shopping product review-ratings, performance measure-Best Made*” is submitted to the Department of Computer Science and Engineering at University of Liberal Arts Bangladesh (ULAB) in the half of fulfillment of the needs for the degree-of-Bachelor of Science.

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Signature & Date

DEDICATION

It goes to My Beloved Family.

ACKNOWLEDGEMENT

First, I want to thanks my almighty, who gave me patience during the whole project. And keep me strong and healthy. Special thanks to my project supervisor Dr. Abul Kalam Al Azad Sir, for all his guidance, support, patience and his master direction for completed this project. During the whole project, he always support me to complete my work regularly and motivated me all the time to try to implement my knowledge for solving that problem which I had faced.

My friends and family gave me feedback and suggestions that helped to improve my project. I am really thankful to them.

ABSTRACT

Online users increase more and more. And online shopping is a more easy way and easy way to buying anything online. But sometimes it's difficult to believe in online ordered products because of product quality, authentication, fake product returns procedure. So I want to build this website where I'm trying to solve those problems.

Here, people can view the ratings and reviews of other users. They can send requests to their vendors to return any faulty products. This system is developed using React, node js, MongoDB for database management. As user behavior pattern is put up in graphical format it will be easier for the admin to view the data and can make decision process faster and can come up with solution quicker. This system helps the user to find out correct reviews, ratings and performance of the product and the company also.

Keywords: Rating & Review, Performance measure, Return/alter the process.

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LIST OF ABBREVIATIONS

CSE	Computer Science and Engineering
ULAB	University of Liberal Arts Bangladesh

INTRODUCTION

1.1 Project Idea:

In today's world, there are many online users who use this for many purposes. Such as shopping, communicating, get medical supports, get many news and information, researching for education, watching live sports matches, looking for jobs and etc.

But when people use online for shopping purposes they faced lots of problems about product quality, servicing, pricing, and so on. Sometimes people meet with hype for some fake vendors, after that the consumers/clients do not get the proper equity. So this website is mainly designed to solve all of the problems.

We people decide to do online shopping, that time previous clients reviews help people to take decisions. And the feedback of a product helps to improve vendor responsibilities. By seeing a review a seller can know about their products quality, their servicing. Consumer ratings and reviews also motivate and encourage vendors to keep their loyalty. Review and rating are the most important things for online shopping and business. Because it's biased or demotivates people to pick the product. A bad rating and review can blast a company and their reputations. On the other hand, A good review can thrive a company and their reputations.

1.2 Work Similarity: This project ideas and plan came from many similar works. They are –

1.2.1 Amazon:

This is the first and famous e-store, where consumer give their review easily. Which help to new consumer to buy any products.

1.2.2 Trust Pilot:

This is the first driving consumer review serving. This is helps more company all over the- world to collect reviews for company. There had 2 version of reviews, one is unpaid and another one is paid.

1.2.3 Yelp:

This is a consumer review site which is totally free for users. Here, people can make their own profile for free, where they can give review easily. The all over process they make free.

1.2.4 Manta:

This is also a site for consumer review. Here, you can see the top customer review. They are mainly focusing for connecting more people for provide more review. It can make your company on the top search position.

1.2.5 Test-Freaks:

This is similar like trust pilot site. This is also collect consumer review. And also helps to write seller review. This is also allow to exotic consumer review.

1.2.6 Consumer Reports:

This is also a non-profit organization. It makes report after testing a products. There have almost 7700000 people review of a product.

1.2.7 Super Pages:

It works for collecting and map people review. Here vendor business get promotions. People can view the condition of services.

1.2.8 Foursquare:

People still use this system to business model. The can also leave here their review. Almost 5500000 people are using this system to provide their review of a location or company.

1.3 Report Layout:

The product rating, review, performance and return alter process project mainly completed after discussing with several steps. They are mentioned below:

- i. First of all, the first role of this web application to inspire people to trust on online shopping. And the main thing is to reduce suffering consumer about unwanted products. And also concern about vendors to about their products and services. So in the first chapter I discussed about the project idea, similarity of works.
- ii. In the second chapter, I discussed about the objective of project, scope of study, development study and the benchmark.
- iii. In the third chapter, I discussed about requirement specification and some actions of the project.
- iv. In the chapter four, I discussed here about design and development process of the project.
- v. In chapter five, I try to mentions all the tools and discussed the techniques of the project.
- vi. In chapter six, I try to cover the challenges which I faced for the project, Result of the project and conclusion.
- vii. And the last chapter in chapter seven, I try to mention the future works for the project I want to do.

CHAPTER 2

Project Objective

2.1 Objective:

There are 3 type of objectives for develop and design the website.

2.1.1 General Objective:

Online shopping had made people's life easier and faster. But sometimes it's difficult to believe in online ordered products because of product quality, authentication, fake product returns procedure. So I want to build this website where I'm trying to solve those problems.

2.1.2 Specific Objective:

Here the admin and the user can visit the following categories:

- i. User need to login/signup this system for buy product
- ii. User can view ratings and review
- iii. User can be write review
- iv. User are able to give request for product alter or return
- v. Admin can sort review and ratings
- vi. Admin can add review and sort performance
- vii. Admin can accept the product alter/return request.

2.1.3 Justification:

Here are the some main reason for design and develop this system:

- i. A good rating and review can increase the business condition
- ii. A bad review can damage the market demand of a product.
- iii. Rating and review increase online user customer trust.
- iv. Return/alter faster process make consumer happy.

2.2 Scope of Study:

In this project there are some limitations and boundaries for the project. This pandemic situation, everything is going online. This is more popular for doing online shopping but people can't trust online because of product quality and other faults. So this system tries to solve all those problems so that people can trust online shopping. And on the other hand, review and help to vendor/seller to know about their service, product quality and all. They can get that which things they should update and what not to do. A good review and ratings also motivate seller to keep their good service.

2.3 Development Study:

I choose the V-model, waterfall model, Spiral model to describe my project for the following reason:

- i. It works well when user requirements fulfill in real.
- ii. It will work properly when high level design will be included.

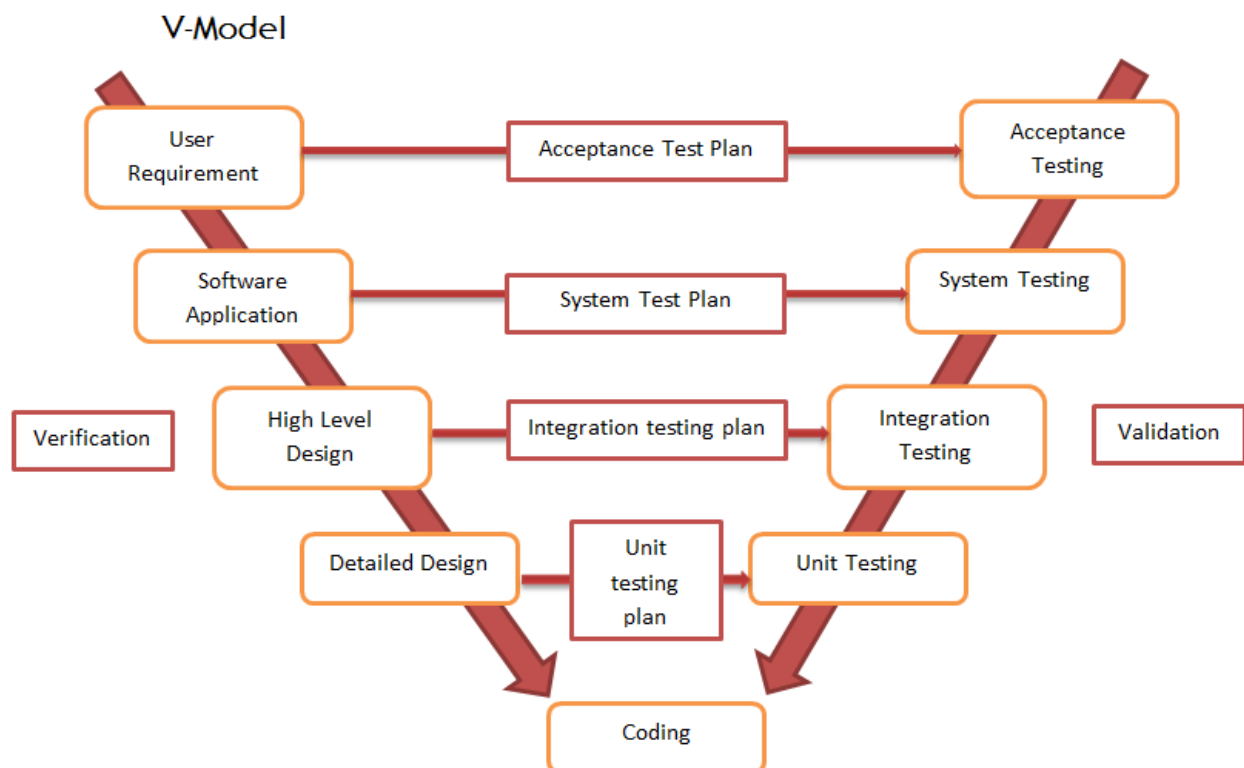


Figure: 2.1- V-model.

- iii. This system will work fine when a system requirement and implementation fulfill properly.
- iv. System testing are important for a system to works properly.

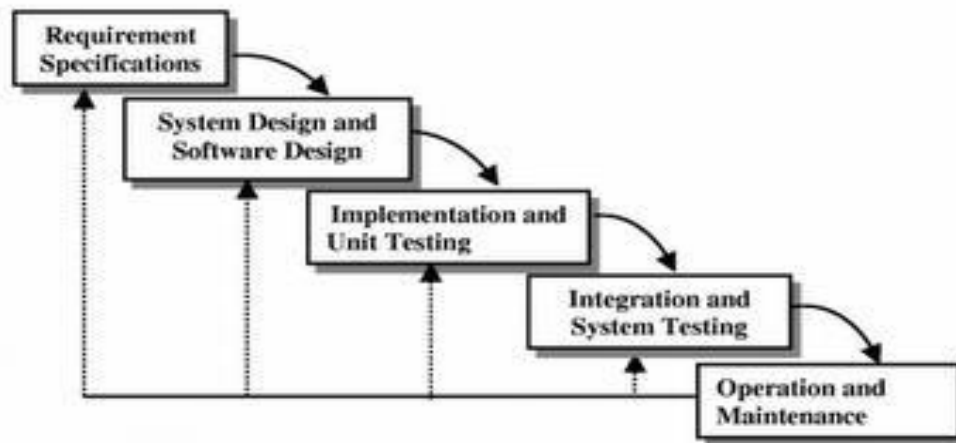


Figure: 2.2 – Waterfall Model.

- v. A system works fine when its identifying own risk

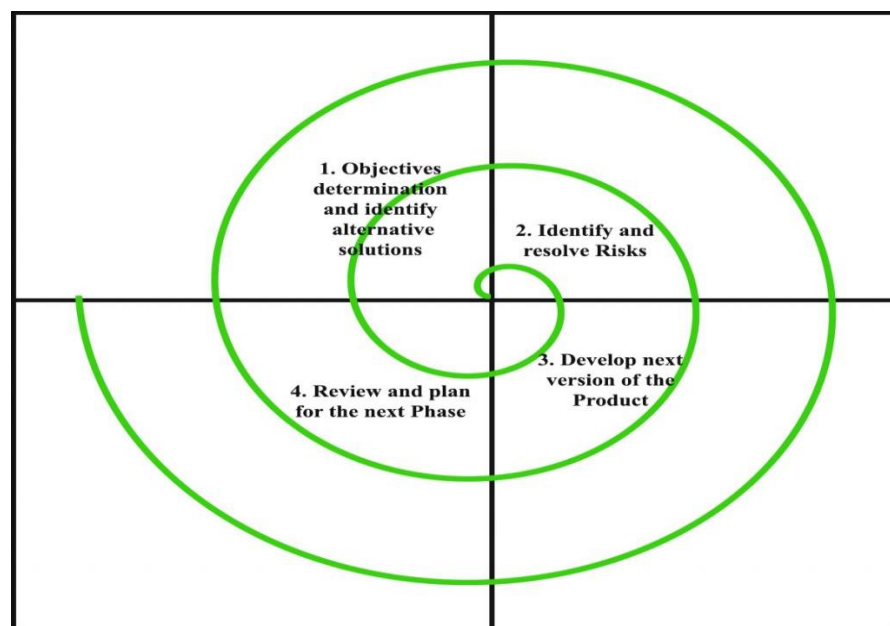


Figure: 2.3 – Spiral model.

- vi. A system complete properly when you maintain time, needed resources, give efforts.

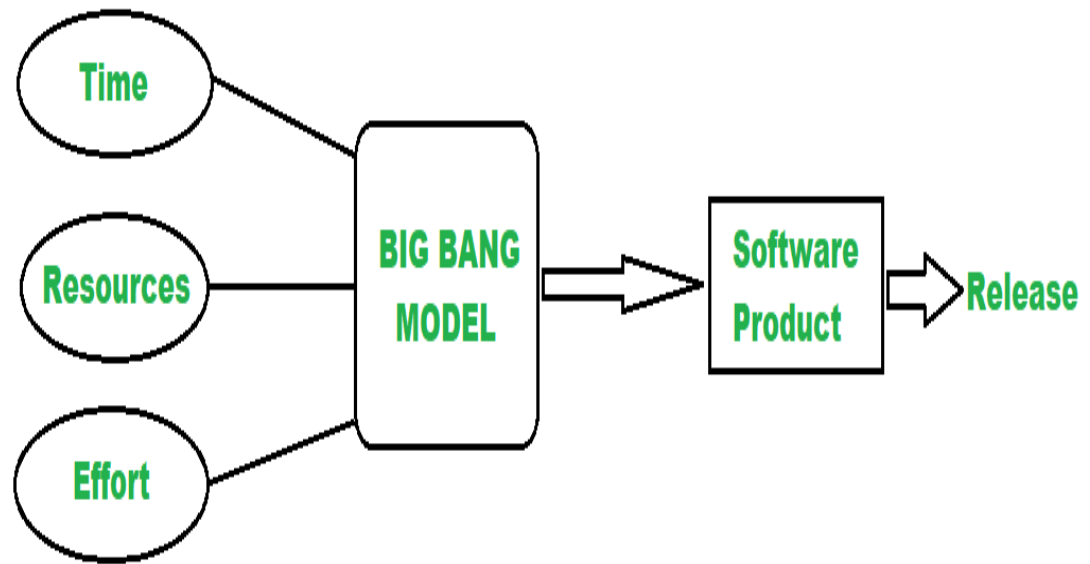


Figure: 2.4 – Big Bang Model

- vii. A system works properly when you maintain some steps to develop the system.

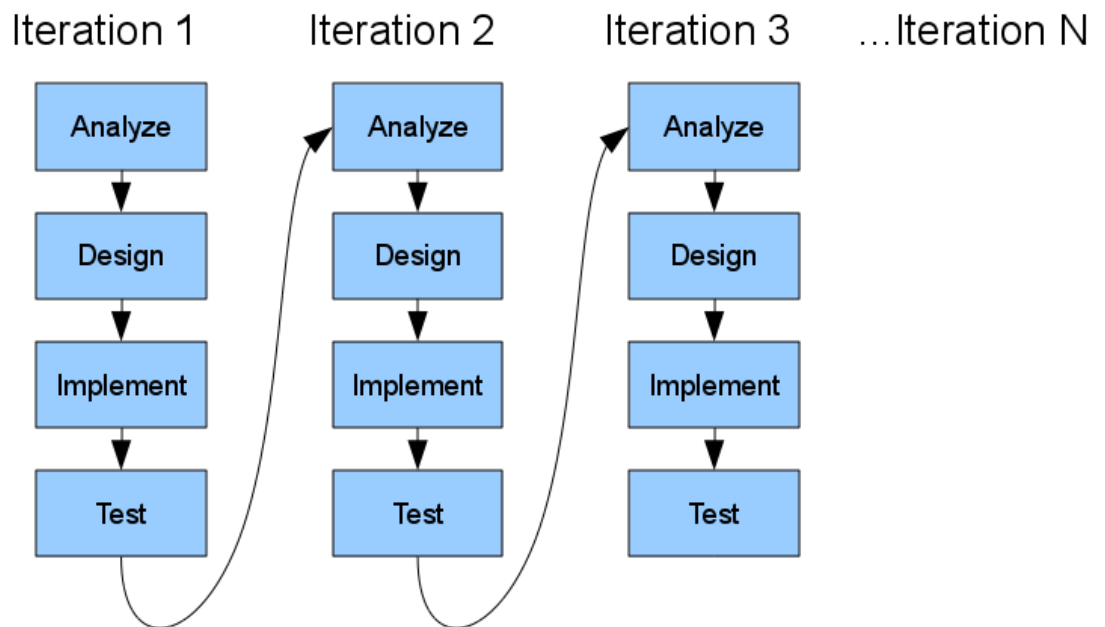


Figure: 2.5 – Interactive model

2.4 Benchmark:

To set the benchmark, I studied some of the e shopping with rating and reviewing websites from both our country and other countries in the world. The comparison is shown in the following table:

Features	Amazon	Trust-pilot	Yelp	Manta	Proposed project
Log in and sign up	yes	yes	yes	yes	yes
Autocomplete search box	yes	no	yes	yes	yes
Cart Auto-update	yes	yes	no	no	yes
Image rotation and 360 view	no	no	no	no	yes

Table: 2.1 – Comparing with other rating websites.

CHAPTER THREE

REQUIREMENTS SPECIFICATION

3.1 Features:

This website build for some specific features. They are:-

- i. This site will help to new consumer and everyone to view the product review and ratings.
- ii. It will also help to view the performance of the products.
- iii. This site also help to consumer to doing request for products return and alter process.
- iv. This site will help seller to know about their products, service and all.
- v. This site will also help to boot top rated positioning product advertise. So that people can easily find the best product, and seller can reach their top product to the consumers.

3.1.1 User Action:

In this site user can take some actions. Which are:

- i. User will be able to view the products rating.
- ii. User will be able to see the product review.
- iii. User will be able to view the performance of a products.
- iv. User will be able to give products return/alter request.
- v. User as a consumer can provide their feedback with rating and review after purchase any products.
- vi. User will able to register this system.

3.1.2 Admin Action:

Admin can take some important steps in this system, which are:

- i. Admin will be able to registered this system
- ii. Admin can add products rating to the site.
- iii. Admin will able to add products review to the system.
- iv. Admin will able to accept return and alter request.

- v. Admin will be able to remove fake reviews.

3.2 Requirements:

There are some specific requirements needed to develop this site. Which I describe in the below:

3.2.1 User Requirements:

When I design and develop this site, that time I tried to keep it simple and user-friendly. So that, the user can get the review ratings, performance and doing request of products without any trouble:

- a. Users will be able to view the ratings of a product quickly and safely.
- b. User will be able to review the performance of a product for the next few years.
- c. Users will be able to browse the whole website without facing any ambiguity.
- d. Users can understand the website with minimum English language knowledge. I will try to implement the Bangla language later.
- e. User can easily replace or return their fault products.

3.2.2 Interface Requirements:

There are some interface requirements:

- a. The graphical user interface will be easy to understand for the users.
- b. The system will be able to navigate the user to the next steps.

3.2.3 Functional Requirements:

- a. The system will enable the User to register an account and login.
- b. The system will provide the facility to the user to change the user name, address, email and password.
- c. In this site user can add ratings, review and products return and alter request.
- d. User can view the products review, ratings and performance.
- e. The system will provide the facility to the admin to view, edit, add and delete products reviews, ratings and return/alter request.

3.2.4 Non-Functional Requirements

- a. Doing performance and response time faster.
- b. This useful for the e-business market.
- c. Possible to upgrade in the future.
- d. Data backup will be implemented.
- e. Enough bandwidth is ensured.
- f. 24 hours server facility.

CHAPTER FOUR

Design and Development

4.1 Design:

Here I try to explain the project by using this MVC(model-view-controller) model. This model-view-controller (MVC) is a design pattern that divides an application into three logical components: model, view, and controller. Each of these components performs specific tasks.

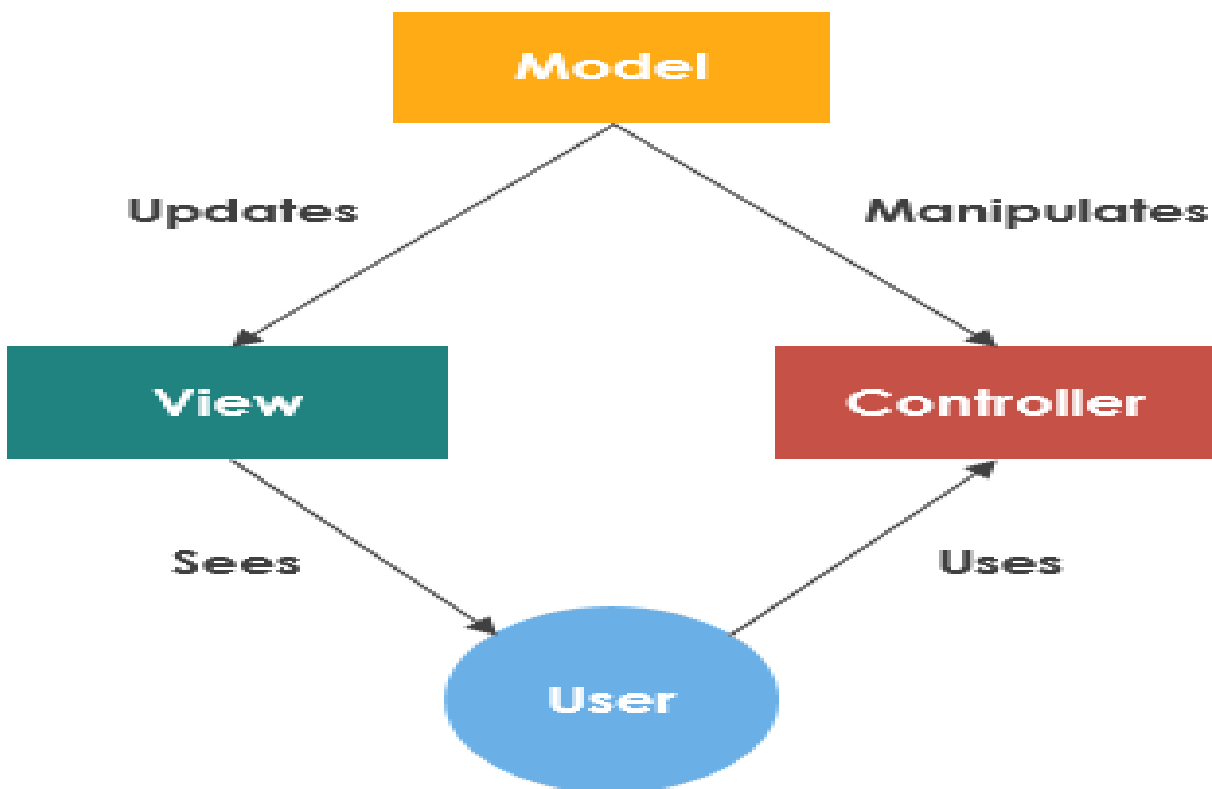


Figure: 4.1 – MVC- model.

4.1.1 Model:

In this system, all the logics are related to the model. For example, admin and user objects will retrieve the admin and user information from the source of database.

4.1.2 View:

The view is used to represent the UI logic of the website. For example, the User will see all the UI of the website such as product rating, review, performance etc.

4.1.3 Controller:

A controller is an interface between view and model, which process all the logic and requests, manipulate data by model, and gives output by the view. For example, the user controller will take input, process input, and gives output by using model and view.

4.2 Diagram:

For explain and develop this site, I used different types of diagrams. Here I try to show and explain them.

4.2.1 Flow diagram:

This chart describe the how the system will works step by step.

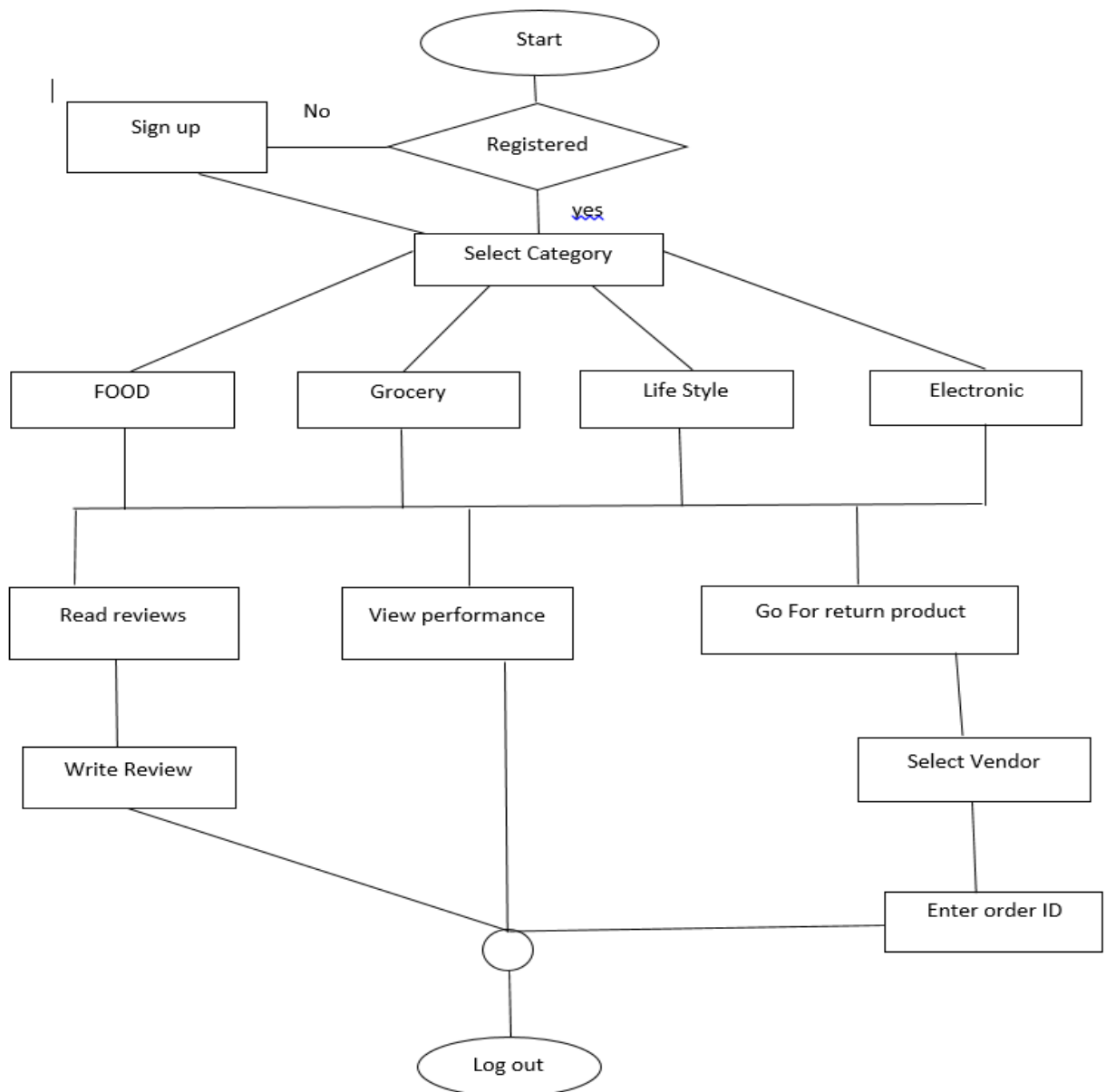
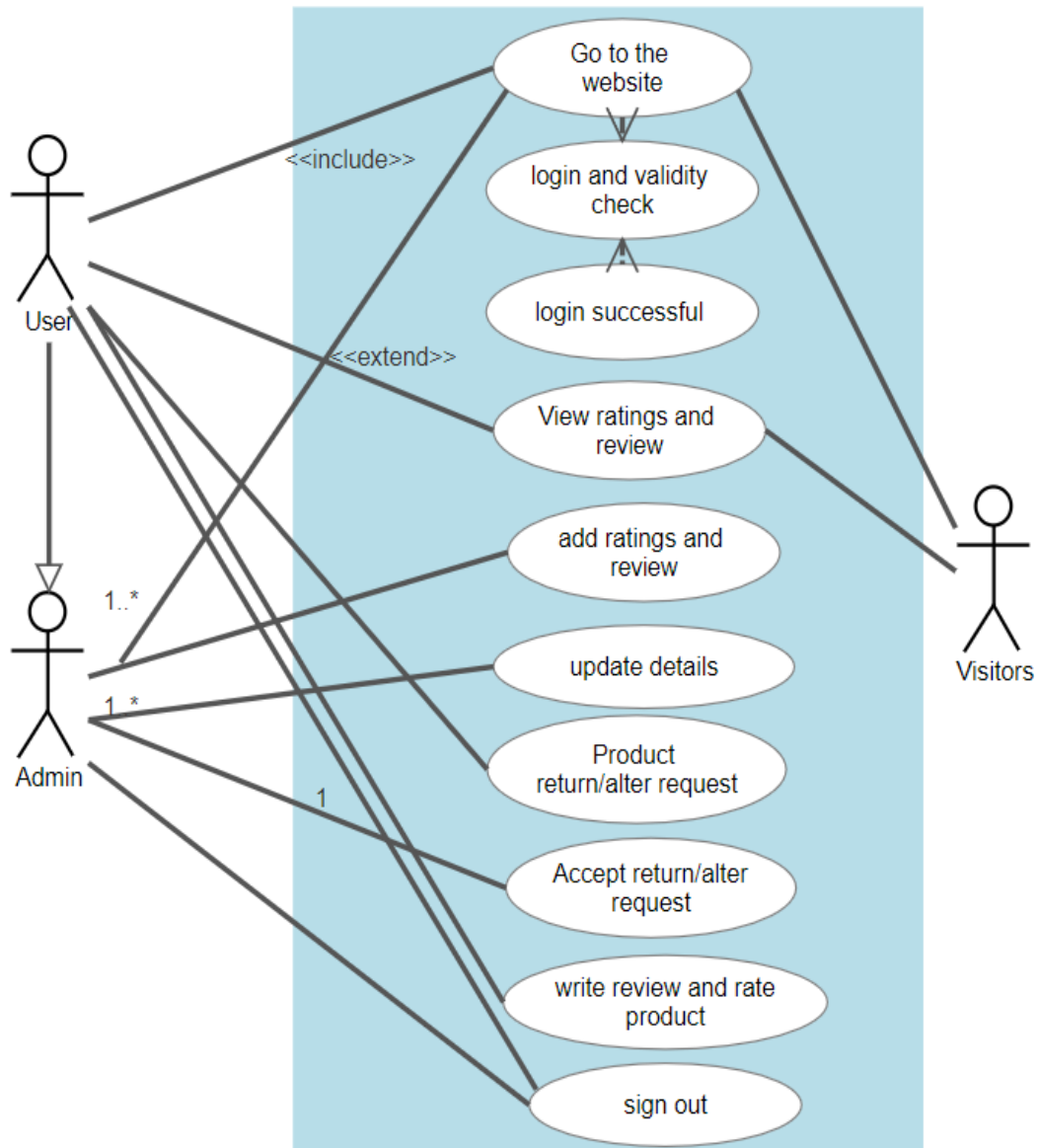


Figure: 4.2- Flow chart.

This is the most straight forward diagram. Which represent the full system in a direct way. Its represent the relation between user and admin:



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4.2.3 UML activity diagram:

UML Activity Diagram: product rating and review system

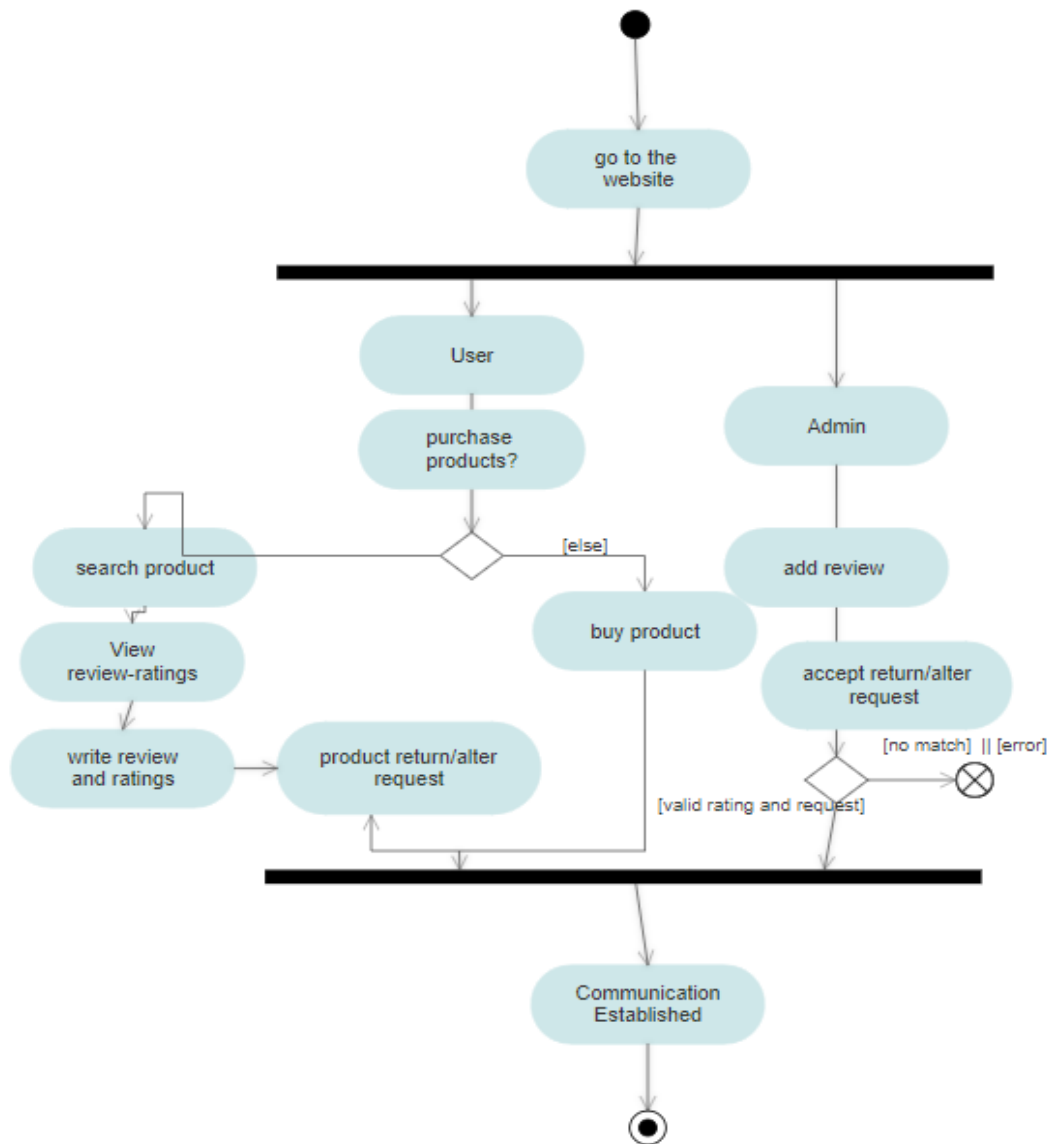


Figure: 4.4 -UML activity diagram

4.2.4 ER Diagram:

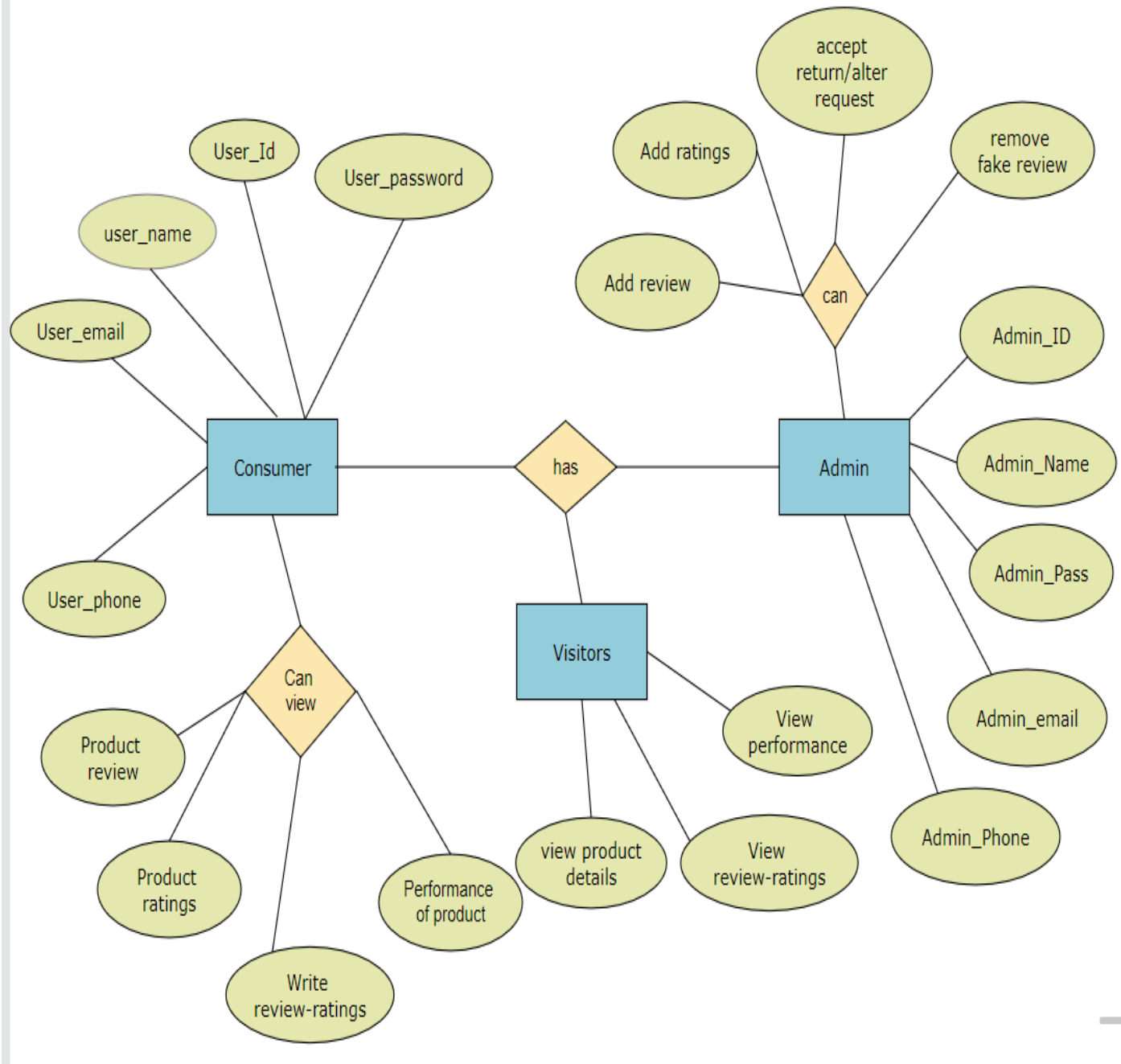


Figure: 4.5- ER- Diagram

4.2.5 UML Class Diagram:

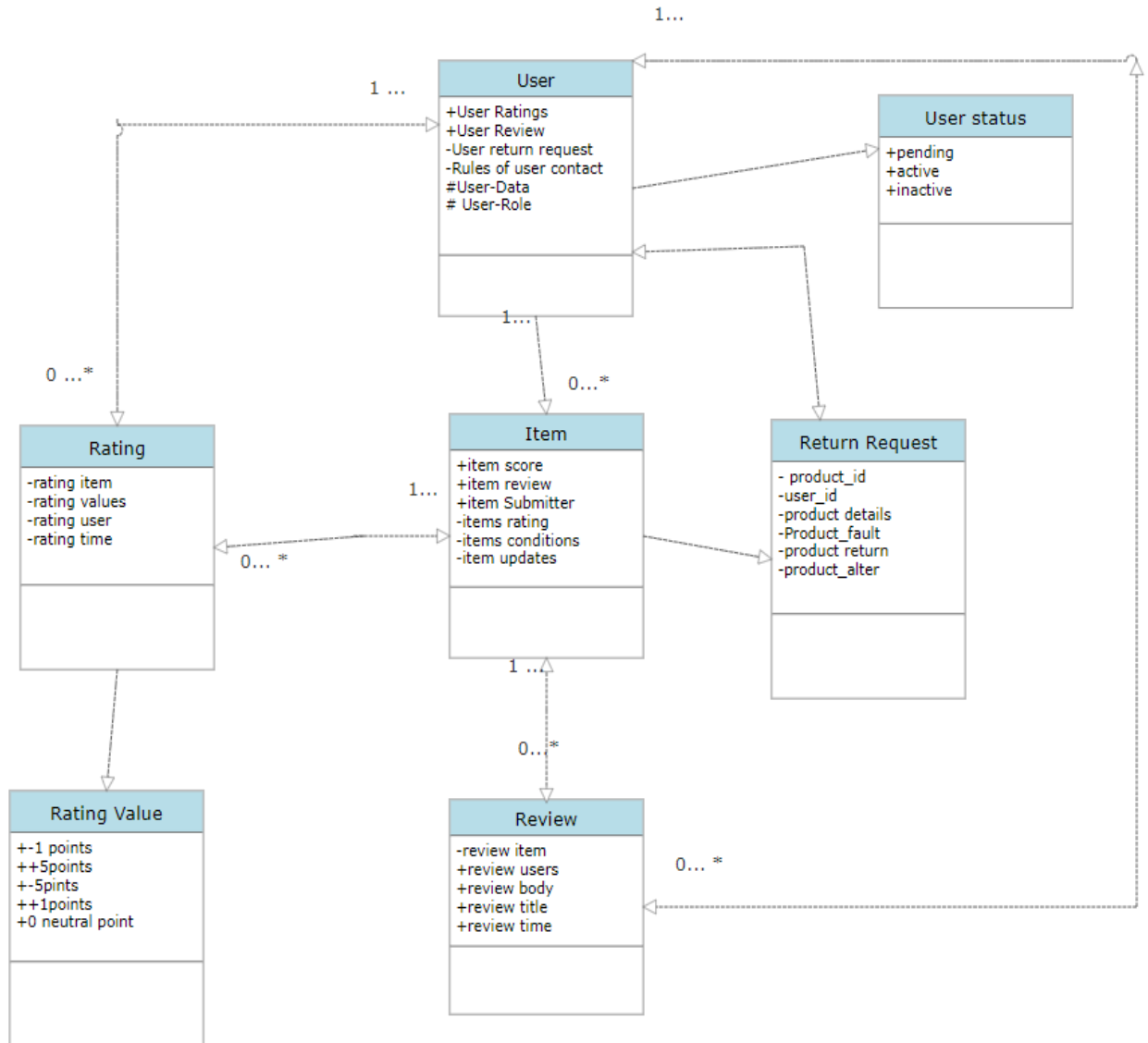


Figure: 4.6 – UML class Diagram

CHAPTER FIVE

TOOLS and SPECIFICATION

5.1 Tools:

Day by day, new tools and technics are added to our technological sites. Where new terms added more value in the system. Which makes our system faster and flexible.

So, I tried to work with some tools which make this side flexible for users. I mention them in the following:

5.1.1 Framework:

- i. To develop this site, I used react for library and frame work to the whole system as a frond end development
- ii. I used Bootstrap as a front end framework.
- iii. Node Js and express for working with the API and web-server.

5.1.2 Languages:

- i. Here I use HTML5, CSS3 for responsive the front end design.
- ii. Using J-son for user authentication and user server(HTTP) request.
- iii. I used JavaScript for doing this site dynamic(also backend desing)

5.1.3 Database:

- i. I used MongoDB and
- ii. Mongoose to retrieving, adding, and deleting products from the database.

5.1.4 Software:

- i. Windows 10,
- ii. Sql,
- iii. Visual Studio,
- iv. Codepen,
- v. Github and
- vi. Google chrome browser for run this system.

5.1.5 Hardware:

- i. I needed dual core processor,
- ii. Hard-disk- 50 GB,
- iii. Internet Connection,
- iv. Memory- 1gb ram.

5.2 Screen-shoots and description:

Front end design:

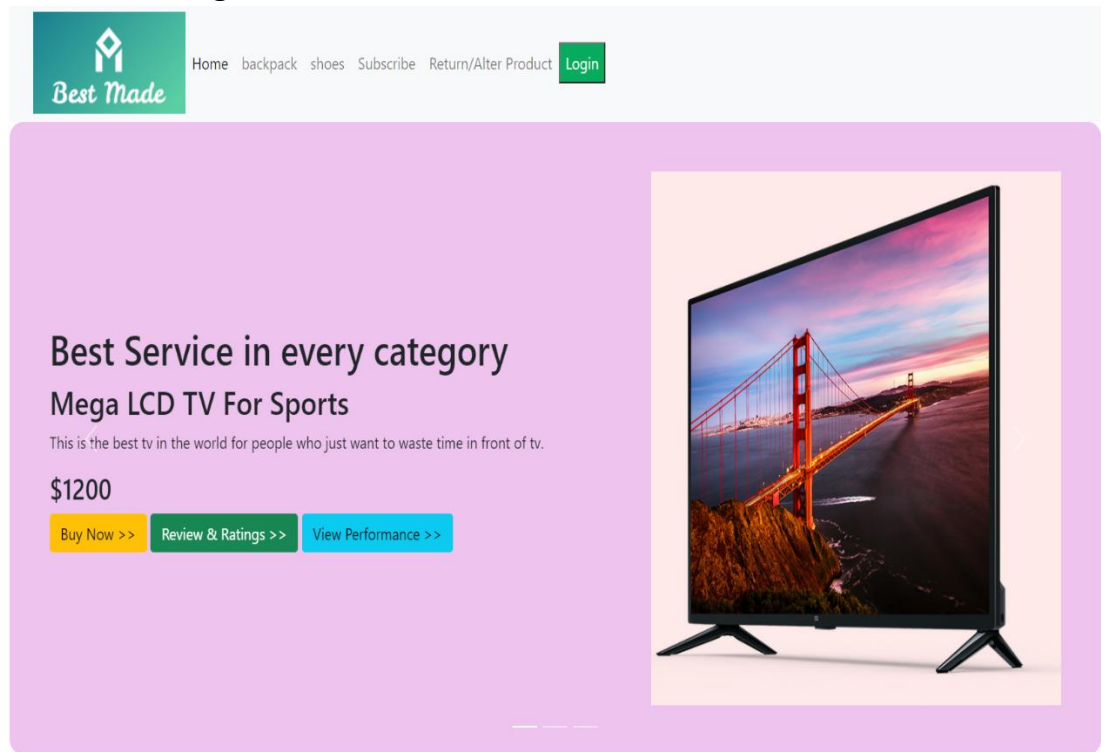


Figure: 5.1 – Front page ad.

In this page, if we view closely then we can see some important features of this project.

- i. At first, we can see the logo of the project in the beginning.
- ii. And then, we can see the, backpack, shoe, subscribe options, return and alter product and login option in the nav-bar.
- iii. In the first view, we can see the ad of the top most products.
- iv. In a products we can see some options, Buy now, Review and ratings and view performance of the products.

Second view:

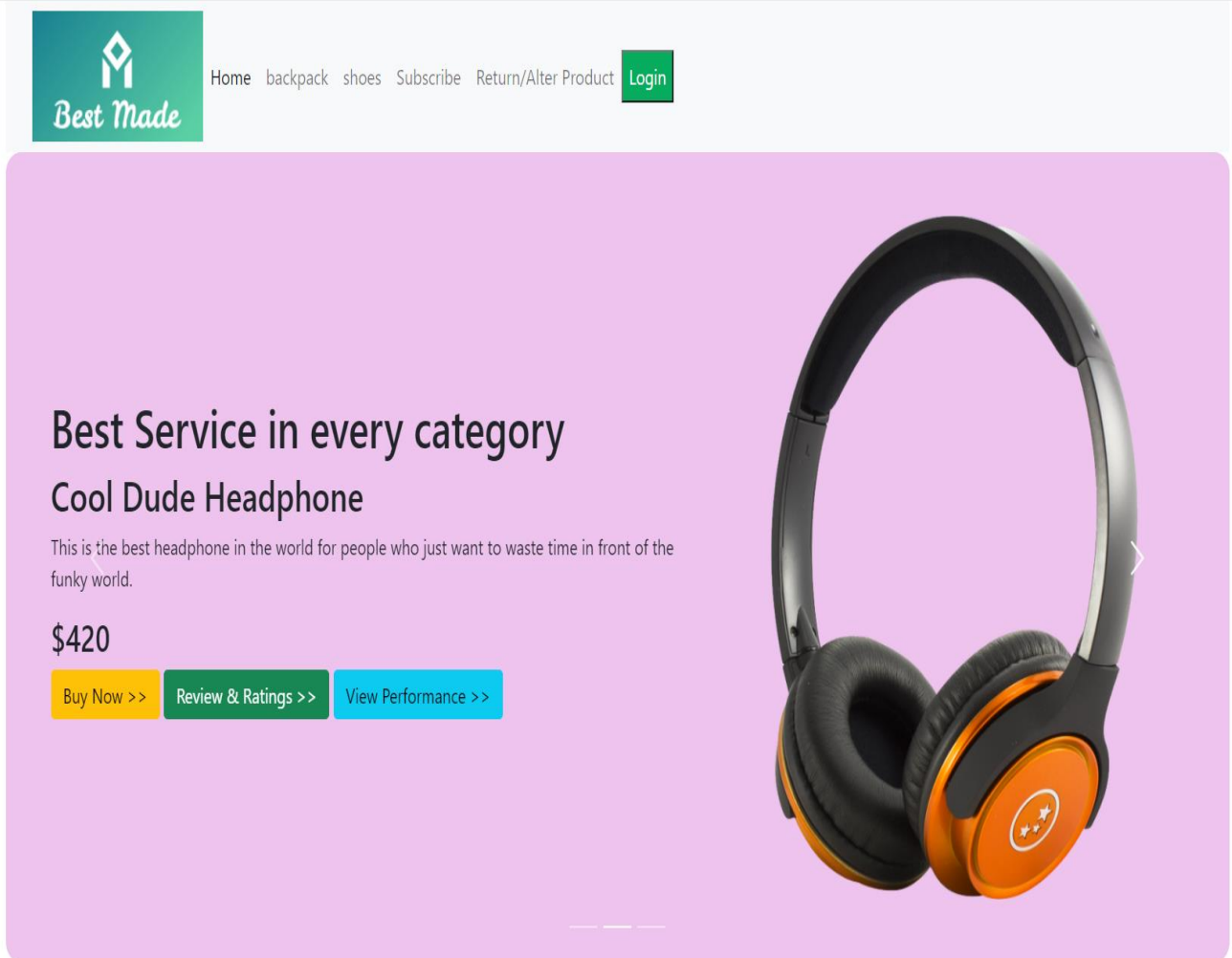


Figure: 5.2 – Second view of this system

In this part, we can see the other part of ad. Where all are previous options are available to for the users.

3rd part of ad:

[Home](#) [backpack](#) [shoes](#) [Subscribe](#) [Return/Alter Product](#) [Login](#)

Best Service in every category

X-Box for your living room

This is the best x-box in the world for people who just want to waste time in front of fake sports.

\$600

[Buy Now >>](#) [Review & Ratings >>](#) [View Performance >>](#)

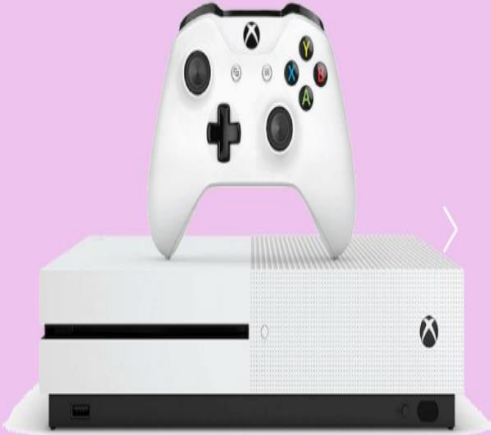


Figure: 5.3- Showing ad third part.

Front-end middle part:

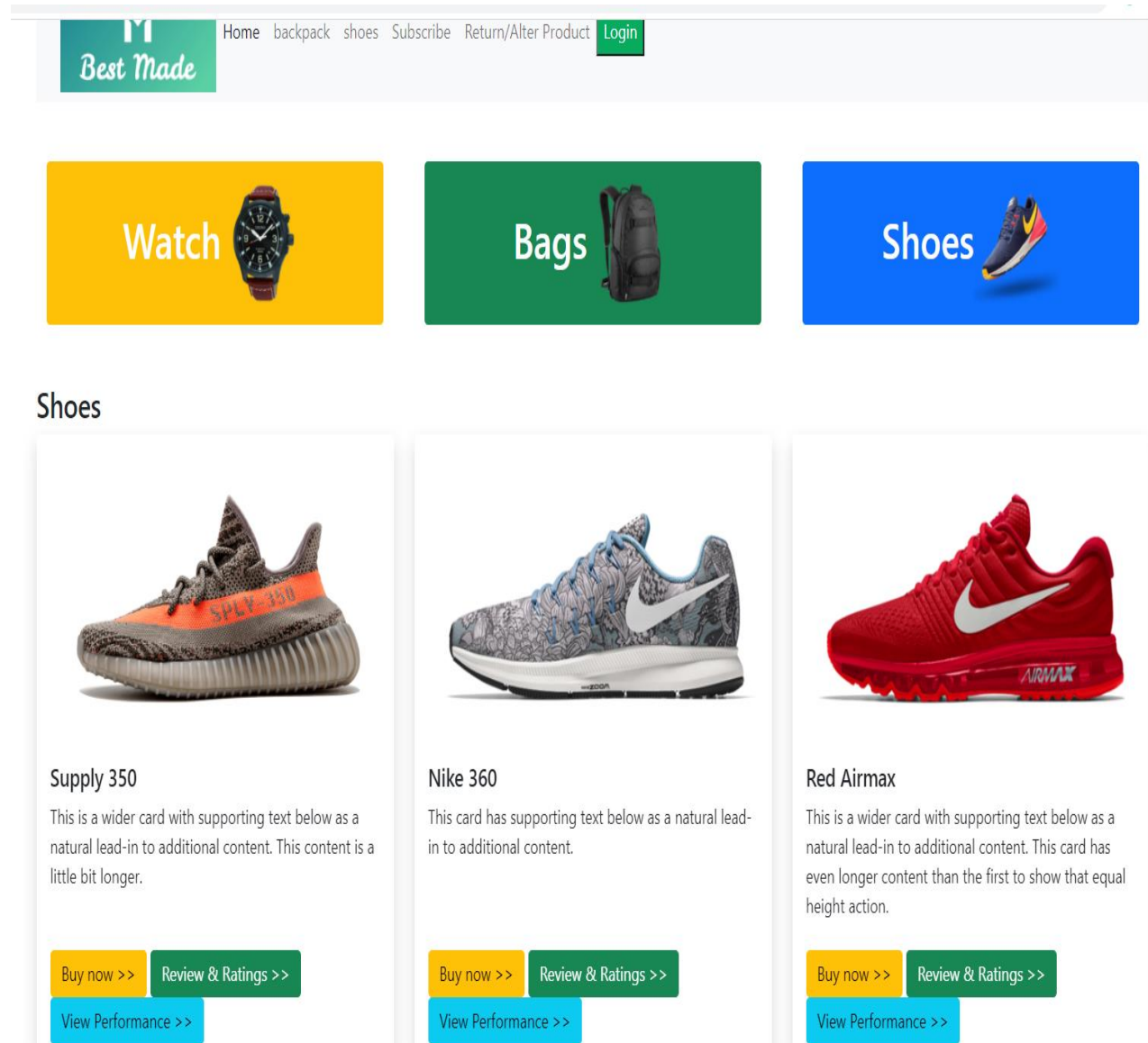


Figure: 5.4- website middle part.

Backpack



Red-34 Bag

\$120

This is a wider card with supporting text below as a natural lead-in to additional content. This content is a little bit longer.

[Buy now >>](#)

[Review & Ratings >>](#)

[View Performance >>](#)



Blue-44 Bag

\$350

This card has supporting text below as a natural lead-in to additional content.

[Buy now >>](#)

[Review & Ratings >>](#)

[View Performance >>](#)



Black-78 Bag

\$169

This is a wider card with supporting text below as a natural lead-in to additional content. This card has even longer content than the first to show that equal height action.

[Buy now >>](#)

[Review & Ratings >>](#)

[View Performance >>](#)

Let's STAY IN TOUCH

Get upate on sales, special and more

Enter your email address

[SUBMIT](#)

Figure: 5.5- Last part of the website.

After visiting this site you have to create an account in this site. There are some steps for login this site.

Step-1: for login

127.0.0.1:5500/Multi%20steps%20form/index.html?#

Signup Form

Name Contact Birth Submit
① — ② — ③ — ④

Basic Info:

First Name

Last Name

NEXT

Figure: 5.6- Signup process

Step-2:

.0.0.1:5500/Multi%20steps%20form/index.html?#

Signup Form

Name Contact Birth Submit
✓ — ② — ③ — ④

Contact Info:

Email Address

Phone Number

PREVIOUS **NEXT**

Figure: 5.7- Signup process

Step-3:

n/index.html?#

Signup Form

Name Contact Birth Submit

✓ — ✓ — (3) — (4)

Date of Birth:

Date

03-08-2005

Gender

Female

PREVIOUS NEXT

Figure: 5.8- Signup process

Step-4:

Multi%20steps%20form/index.html?#

Signup Form

Name Contact Birth Submit

✓ — ✓ — ✓ — ④

Login Details:

Username

Sumu801

Password

.....|

PREVIOUS SUBMIT

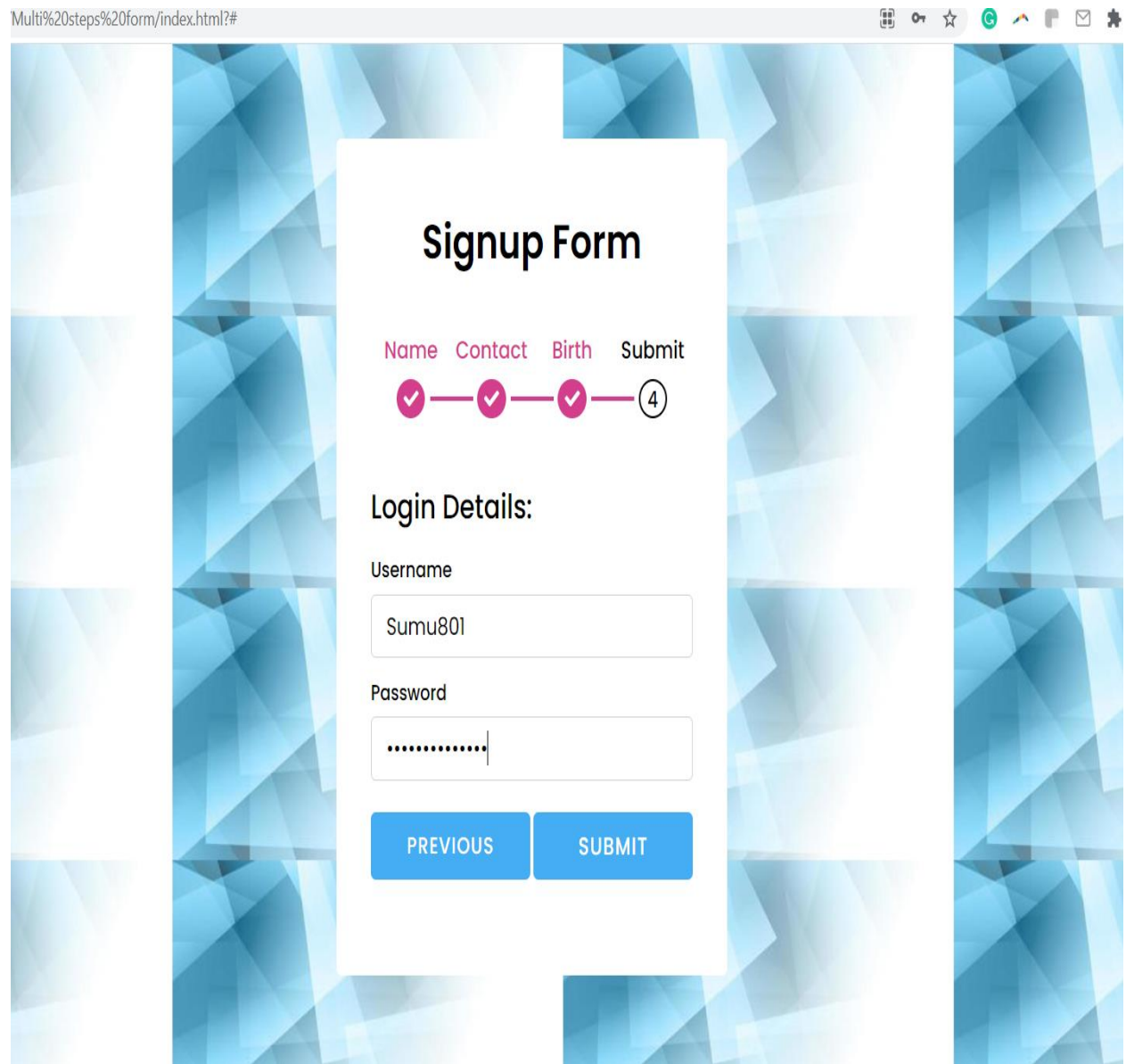


Figure: 5.9- Signup process

Step-5:

ox.html?#

The screenshot shows a web browser window with a blue geometric background. A white modal box at the top displays a success message: "127.0.0.1:5500 says" and "Your Form Successfully Signed up", with an "OK" button. Below this, the "Signup Form" is visible. It features a progress bar with four steps: "Name", "Contact", "Birth", and "Submit", each marked with a checkmark. Under the heading "Login Details:", there are input fields for "Username" (containing "Sumu801") and "Password" (masked with dots). At the bottom are two buttons: "PREVIOUS" (blue) and "SUBMIT" (green).

Figure: 5.10- Signup process

Log In

Login

[Forgot password ?](#)

Need an account? [Sign up](#)

Figure:5.11- Login

Profile

Email: sumaiya.akter.cse@ulab.edu.bd

Update Profile

[Log out](#)

Figure: 5.12- profile info

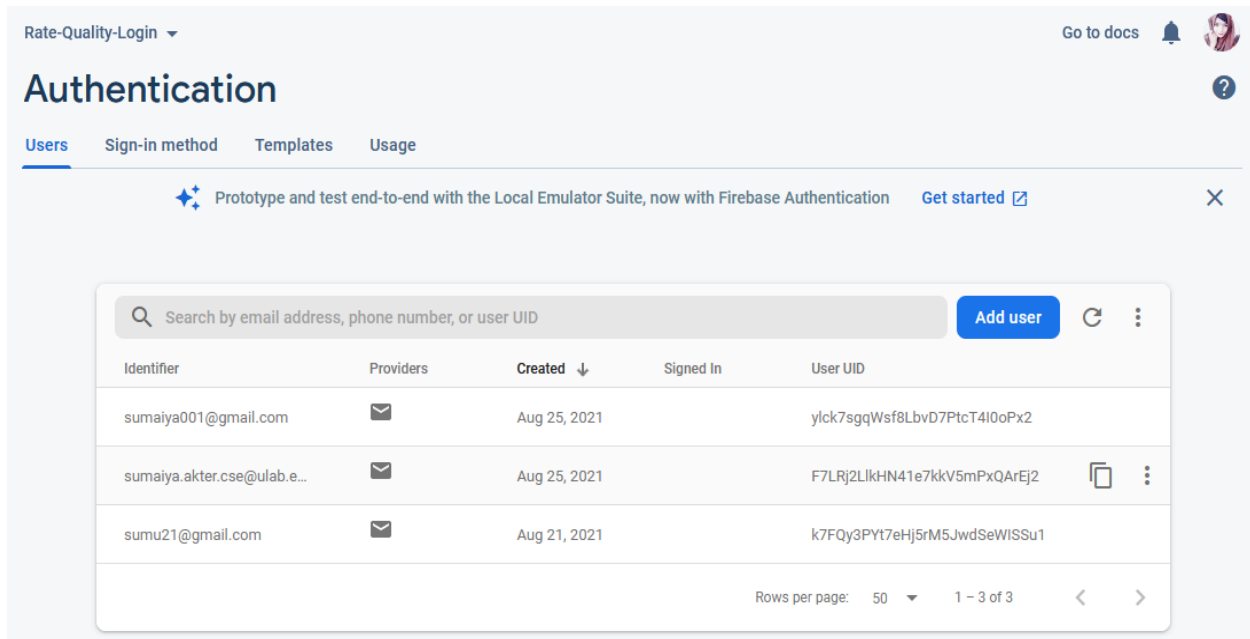


Figure 5.13- Authentication check

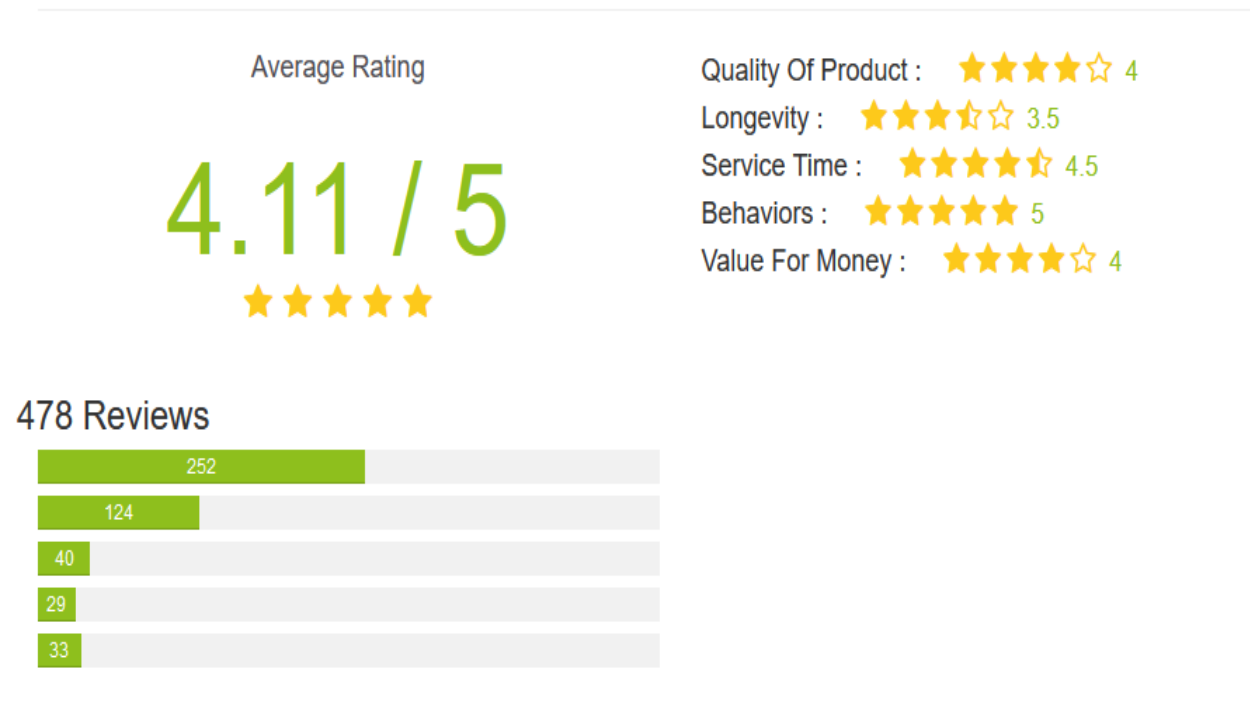


Figure: 5.14- Product ratings



Figure: 5.15- performance measure.

Code step by step:

Step-01:

```

C:\Users\user> cd Downloads > cd index.html > cd index.html > cd head > cd link
11 </head>
12 </body>
13 <div class="container">
14 <div class="navbar navbar-expand-lg sticky-top navbar-light bg-light">
15 <div class="container-fluid">
16 <a class="navbar-brand" href="#"></a>
17 
18 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavAltMarkup" aria-controls="navbarNavAltMarkup" aria-expanded="false" aria-label="Toggle navigation">
19 <span class="navbar-toggler-icon"></span>
20 </button>
21 <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
22 <div class="navbar-nav">
23 <a class="nav-link active" aria-current="page" href="#">Home</a>
24 <a class="nav-link" href="#backpack">backpack</a>
25 <a class="nav-link" href="#shoes">shoes</a>
26 <a class="nav-link" href="#audio" data-bs-toggle="collapse" data-bs-target="#audio" aria-expanded="false" aria-label="Toggle navigation">Audio</a>
27 <a class="nav-link" href="#">Return/Alter Product</a>
28 <button class="loginbtn" type="button">Login</button>
29 </div>
30 </div>
31 </div>
32 </div>
33 </div>
34 </div>
35 </div>
36 </div>
37 <div id="carouselExampleIndicators" class="carousel slide" data-bs-ride="carousel">
38 <div class="carousel-indicators">
39 <button type="button" data-bs-target="#carouselExampleIndicators" data-bs-slide-to="0" class="active" aria-current="true" aria-label="Slide 1"></button>
40 <button type="button" data-bs-target="#carouselExampleIndicators" data-bs-slide-to="1" aria-label="Slide 2"></button>
41 <button type="button" data-bs-target="#carouselExampleIndicators" data-bs-slide-to="2" aria-label="Slide 3"></button>
42 </div>
43 <div class="carousel-inner">
44 <div class="carousel-item active">
45 <div class="row d-flex align-items-center p-5">
46 <div class="col-md-7">
47 <h1>Best Service in every category</h1>
48 <h2>Cool Dude Headphone</h2>
49 <p>This is the best tv in the world for people who just want to waste time in front of tv.</p>
50 <h3>$1200</h3>
51 <button class="btn btn-warning">Buy Now >></button>
52 <button class="btn btn-success">Review & Ratings >></button>
53 <button class="btn btn-info">View Performance >></button>
54 </div>
55 <div class="col-md-5">
56 
57 </div>
58 </div>
59 </div>
60 </div>
61 <div class="carousel-item">
62 <div class="row d-flex align-items-center p-5">
63 <div class="col-md-7">
64 <h1>Best Service in every category</h1>
65 <h2>Cool Dude Headphone</h2>
66 <p>This is the best headphone in the world for people who just want to waste time in front of the funky world.</p>
67 <h3>$420</h3>
68 <button class="btn btn-warning">Buy Now >></button>
69 <button class="btn btn-success">Review & Ratings >></button>
70 <button class="btn btn-info">View Performance >></button>
71 </div>

```

Figure: 5.16-Front end design

Step:02

```
> Users > User > Downloads > <> index.html > ...
81 | <section id="backpack" class="mt-5">
82 |   <h3>Backpack</h3>
83 |   <div class="row row-cols-1 row-cols-md-3 g-4">
84 |     <div class="col">
85 |       <div class="card panda-card h-100 shadow">
86 |         
87 |         <div class="card-body">
88 |           <h5 class="card-title">Red-34 Bag</h5>
89 |           <h5>$120</h5>
90 |           <p class="card-text">This is a wider card with supporting text below as a natural lead-in to additional co
91 |         </div>
92 |         <div class="card-footer panda-card-footer">
93 |           <button class="btn btn-warning">Buy now >></button>
94 |           <button class="btn btn-success">Review & Ratings >></button>
95 |           <button class="btn btn-info">View Performance >></button>
96 |         </div>
97 |       </div>
98 |     </div>
99 |     <div class="col">
100 |       <div class="card panda-card h-100 shadow">
101 |         
102 |         <div class="card-body">
103 |           <h5 class="card-title">Blue-44 Bag</h5>
104 |           <h5>$350</h5>
105 |           <p class="card-text">This card has supporting text below as a natural lead-in to additional content</p>
106 |         </div>
```

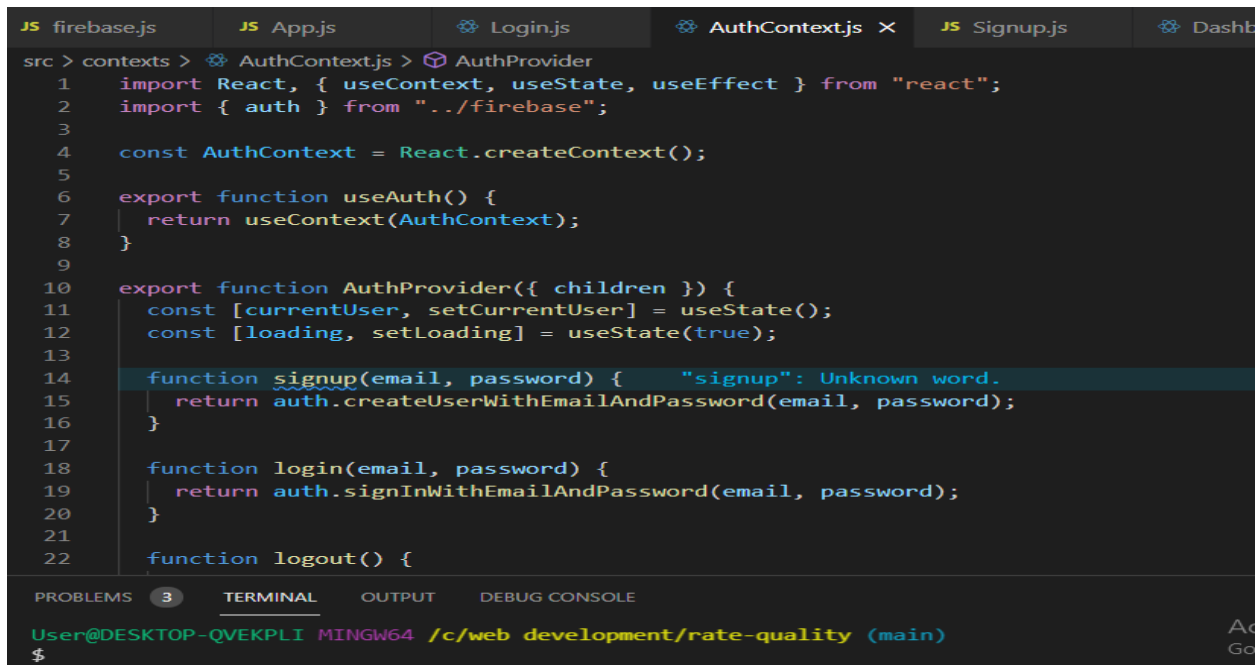
Figure: 5.17- Source Code

Step-03:

```
> Users > User > Downloads > <> index.html > ...
5 | </div>
6 |   <div class="col">
7 |     <div class="p-3 rounded bg-success d-flex align-items-center justify-content-center">
8 |       <h1 class="text-white">Bags</h1>
9 |       
10 |     </div>
11 |   </div>
12 |   <div class="col">
13 |     <div class="p-3 rounded bg-primary d-flex align-items-center justify-content-center">
14 |       <h1 class="text-white">Shoes</h1>
15 |       
16 |     </div>
17 |   </div>
18 | </div>
19 | </section>
20 |
21 | <section id="shoes" class="mt-5">
22 |   <h3>Shoes</h3>
23 |   <div class="row row-cols-1 row-cols-md-3 g-4">
24 |     <div class="col">
25 |       <div class="card panda-card h-100 shadow">
26 |         
27 |         <div class="card-body">
28 |           <h5 class="card-title">Supply 350</h5>
29 |           <p class="card-text">This is a wider card with supporting text below as a natural lead
```

Figure: 5.18- Source Code

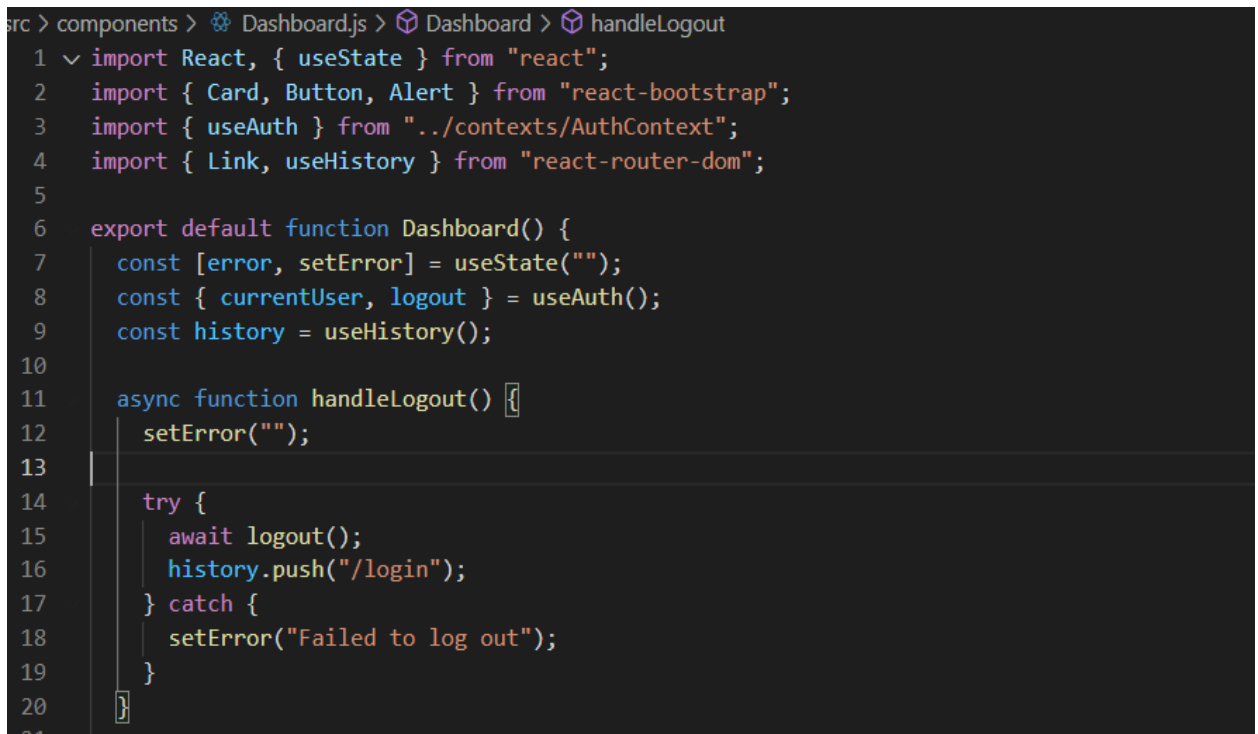
Step -4:



```
JS firebase.js JS App.js Login.js AuthContext.js X JS Signup.js Dashb
src > contexts > AuthContext.js > AuthProvider
1 import React, { useContext, useState, useEffect } from "react";
2 import { auth } from "../firebase";
3
4 const AuthContext = React.createContext();
5
6 export function useAuth() {
7   return useContext(AuthContext);
8 }
9
10 export function AuthProvider({ children }) {
11   const [currentUser, setCurrentUser] = useState();
12   const [loading, setLoading] = useState(true);
13
14   function signup(email, password) { "signup": Unknown word.
15     return auth.createUserWithEmailAndPassword(email, password);
16   }
17
18   function login(email, password) {
19     return auth.signInWithEmailAndPassword(email, password);
20   }
21
22   function logout() {
```

Figure: 5.19-Login

Step-5:



```
src > components > Dashboard.js > Dashboard > handleLogout
1 import React, { useState } from "react";
2 import { Card, Button, Alert } from "react-bootstrap";
3 import { useAuth } from "../contexts/AuthContext";
4 import { Link, useHistory } from "react-router-dom";
5
6 export default function Dashboard() {
7   const [error, setError] = useState("");
8   const { currentUser, logout } = useAuth();
9   const history = useHistory();
10
11   async function handleLogout() {
12     setError("");
13
14     try {
15       await logout();
16       history.push("/login");
17     } catch {
18       setError("Failed to log out");
19     }
20   }
21 }
```

Figure: 5.20- Login

Step-6:

```
src > components > Login.js > Login
1  import React, { useRef, useState } from "react";
2  import { Form, Button, Card, Alert } from "react-bootstrap";
3  import { useAuth } from "../contexts/AuthContext";
4  import { Link, useHistory } from "react-router-dom";
5
6  export default function Login() {
7    const emailRef = useRef();
8    const passwordRef = useRef();
9    const { login } = useAuth();
10   const [error, setError] = useState("");
11   const [loading, setLoading] = useState(false);
12   const history = useHistory();
13
14   async function handleSubmit(e) {
15     e.preventDefault();
16
17     try {
18       setError("");
19       setLoading(true);
20       await login(emailRef.current.value, passwordRef.current.value);
21       history.push("/");
22     } catch {
23
24     }
25   }
26
27   return (
28     <div>
29       <h2>Login</h2>
30       <Form>
31         <Form.Group>
32           <Form.Label>Email</Form.Label>
33           <Form.Control type="text" ref={emailRef} />
34         </Form.Group>
35         <Form.Group>
36           <Form.Label>Password</Form.Label>
37           <Form.Control type="password" ref={passwordRef} />
38         </Form.Group>
39         <Button type="submit">Login</Button>
40       </Form>
41       <Alert>{error}</Alert>
42     </div>
43   );
44 }
```

PROBLEMS 1 TERMINAL OUTPUT DEBUG CONSOLE

User@DESKTOP-QVEKPLI MINGW64 /c/web development/rate-quality (main)

Activate W Go to Settings

Figure: 5.21-Login

Step-7:

```
src > components > ForgotPassword.js > ForgotPassword
1  import React, { useRef, useState } from "react";
2  import { Form, Button, Card, Alert } from "react-bootstrap";
3  import { useAuth } from "../contexts/AuthContext";
4  import { Link } from "react-router-dom";
5
6  export default function ForgotPassword() {
7    const emailRef = useRef();
8    const { resetPassword } = useAuth();
9    const [error, setError] = useState("");
10   const [message, setMessage] = useState("");
11   const [loading, setLoading] = useState(false);
12
13   async function handleSubmit(e) {
14     e.preventDefault();
15
16     try {
17       setMessage("");
18       setError("");
19       setLoading(true);
20       await resetPassword(emailRef.current.value);
21       setMessage("Check your inbox for further instructions");
22     } catch {
23
24     }
25   }
26
27   return (
28     <div>
29       <h2>Forgot Password</h2>
30       <Form>
31         <Form.Group>
32           <Form.Label>Email</Form.Label>
33           <Form.Control type="text" ref={emailRef} />
34         </Form.Group>
35         <Button type="submit">Reset Password</Button>
36       </Form>
37       <Alert>{error}</Alert>
38       <Alert>{message}</Alert>
39     </div>
40   );
41 }
```

PROBLEMS 7 TERMINAL OUTPUT DEBUG CONSOLE

User@DESKTOP-QVEKPLI MINGW64 /c/web development/rate-quality (main)

Act Go to Settings

Figure: 5.22- Login

Step-8:

```
src > components > Signup.js > Signup
1  import React, { useRef, useState } from "react";
2  import { Form, Button, Card, Alert } from "react-bootstrap";
3  import { useAuth } from "../contexts/AuthContext";
4  import { Link, useHistory } from "react-router-dom";
5
6  export default function Signup() {
7    const emailRef = useRef();
8    const passwordRef = useRef();
9    const passwordConfirmRef = useRef();
10   const { signup } = useAuth();
11   const [error, setError] = useState("");
12   const [loading, setLoading] = useState(false);
13   const history = useHistory();
14
15   async function handleSubmit(e) {
16     e.preventDefault();
17
18     if (passwordRef.current.value !== passwordConfirmRef.current.value) {
19       return setError("Passwords do not match");
20     }
21
22     try {
23       signup(emailRef.current.value, passwordRef.current.value);
24     } catch (error) {
25       setError(error.message);
26     }
27   }
28
29   return (
30     <div>
31       <h2>Sign Up</h2>
32       <Form>
33         <div>
34           <input type="text" value={emailRef.current.value} onChange={emailRef.current.onChange} />
35           <input type="password" value={passwordRef.current.value} onChange={passwordRef.current.onChange} />
36           <input type="password" value={passwordConfirmRef.current.value} onChange={passwordConfirmRef.current.onChange} />
37         </div>
38         <button type="button" disabled={loading}>Sign Up</button>
39       </Form>
40       <Alert>{error}</Alert>
41     </div>
42   );
43 }
```

PROBLEMS 6 TERMINAL OUTPUT DEBUG CONSOLE

User@DESKTOP-QVEKPLI MINGW64 /c/web development/rate-quality (main)

\$

Figure: 5.23- Signup

Step-9:

```
src > components > UpdateProfile.js > UpdateProfile
1  import React, { useRef, useState } from "react";
2  import { Form, Button, Card, Alert } from "react-bootstrap";
3  import { useAuth } from "../contexts/AuthContext";
4  import { Link, useHistory } from "react-router-dom";
5
6  export default function UpdateProfile() {
7    const emailRef = useRef();
8    const passwordRef = useRef();
9    const passwordConfirmRef = useRef();
10   const { currentUser, updatePassword, updateEmail } = useAuth();
11   const [error, setError] = useState("");
12   const [loading, setLoading] = useState(false);
13   const history = useHistory();
14
15   function handleSubmit(e) {
16     e.preventDefault();
17
18     if (passwordRef.current.value !== passwordConfirmRef.current.value) {
19       return setError("Passwords do not match");
20     }
21
22     const promises = [];
23     setLoading(true);
24
25     if (emailRef.current.value !== currentUser.email) {
26       promises.push(updateEmail(emailRef.current.value));
27     }
28
29     if (passwordRef.current.value) {
30       promises.push(updatePassword(passwordRef.current.value));
31     }
32
33     Promise.all(promises).then(() => {
34       history.push("/");
35     });
36   }
37
38   return (
39     <div>
40       <h2>Update Profile</h2>
41       <Form>
42         <div>
43           <input type="text" value={emailRef.current.value} onChange={emailRef.current.onChange} />
44           <input type="password" value={passwordRef.current.value} onChange={passwordRef.current.onChange} />
45           <input type="password" value={passwordConfirmRef.current.value} onChange={passwordConfirmRef.current.onChange} />
46         </div>
47         <button type="button" disabled={loading}>Update Profile</button>
48       </Form>
49       <Alert>{error}</Alert>
50     </div>
51   );
52 }
```

PROBLEMS 7 TERMINAL OUTPUT DEBUG CONSOLE

User@DESKTOP-QVEKPLI MINGW64 /c/web development/rate-quality (main)

\$

Figure: 5.24-Signup

Step-10:

```
<div class="col-md-6 col-sm-6 col-xs-12 rating-part-right">
  <div class="row">
    <div class="col-md-12">
      <h5 class="review-stat">Quality Of Product : &nbsp;</h5>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star-o" aria-hidden="true "></i>
      <span>4</span>
    </div>
    <div class="col-md-12">
      <h5 class="review-stat">Longevity : &nbsp;</h5>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star-half-o" aria-hidden="true "></i>
      <i class="fa fa-star-o" aria-hidden="true "></i>
      <span>3.5</span>
    </div>
    <div class="col-md-12">
      <h5 class="review-stat">Service Time : &nbsp;</h5>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star-half-o" aria-hidden="true "></i>
      <span>4.5</span>
    </div>
    <div class="col-md-12">
      <h5 class="review-stat">Behaviors : &nbsp;</h5>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <span>5</span>
    </div>
    <div class="col-md-12">
      <h5 class="review-stat">Value For Money : &nbsp;</h5>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star" aria-hidden="true "></i>
      <i class="fa fa-star-o" aria-hidden="true "></i>
      <span>4</span>
    </div>
  </div>
</div>
```

Figure: 5.25- Review and Rating

Step-11:

```
# index.css > .rating-part-right i
1  body {
2      background-color: #f1f1f1;
3  }
4
5  body h3 {
6      margin: 0px;
7  }
8
9  .main-section {
10     background-color: #fff;
11     padding: 30px 15px;
12 }
13
14 .rating-part-left h1 {
15     font-size: 75px;
16     margin: 0px;
17     color: #8ebfd;
18 }
19
20 .rating-part-left i {
21     font-size: 22px;
22     padding: 2px;
23     color: #fdc91b;
24 }
25
26 .rating-part-left p {
27     font-size: 18px;
28     color: #504f55;
29 }
30
31 .progress {
32     background: #f1f1f1;
33     box-shadow: none;
34     border-radius: 0px;
35     margin: 7px 0px;
36 }
37
38 .progress .progress-bar {
39     background: #8ebfd;
40 }
41
42 .rating-part-right i,
43 .review-part-right i {
44     font-size: 20px;
45     padding: 4px 0px;
46     color: #fdc91b;
47 }
48
49 .rating-part-right span {
50     color: #8ebfd;
51 }
```

Figure: 5.25-Review and Rating

That's all the some main part of source code for this site.

CHAPTER SIX

CONCLUSION

6.1 Challenges:

To develop this site I face many challenges. Which are:

- i. In this site I was unable to map this system with our running authentic e-commerce sites. It's really a big deal to marge this with e-commerce site.
- ii. To detect the original and fake review of a products.
- iii. It's hard to maintain the full database together.
- iv. To maintain the all numbers with the domain.

6.2 Results:

It comes from my personal observation and questionnaires and my personal experiences first, which are the basic sources of primary data. Which suffices all research objectives.

And the secondary data comes from the internet, research papers, admin, products, buyer and seller information are uses as secondary sources.

The expected outcome of this project is to develop a website where users can view products and can post reviews, ratings about the product. This system provides the seller performance data in graphical format. User can post their own review about the product.

This system helps the admin to know the most frequently purchased products by the customer. Users can send requests easily for change or return their products.

6.3 Conclusion:

The product quality, servicing, product materials, costing, return/alter servicing web-based rating application help consumers to make decisions about going for it or not. And also this pandemic situation encourages people to go online shopping. But they can't trust fully online shopping because of products fault, servicing and real sellers and many other things. So I try to design and develop this system to encourage people to go online shopping with full trust. Where it was developed by using many tools and technics. I want and I will add more features to this website to make this easy and comfortable for users.

CHAPTER-SEVEN

Future Work

In this system, there have some advance update and design are remaining. Which are the future for the system.

- i. To map with e-commerce website so that they can do business with this system.
- ii. To maintain strong database.
- iii. To doing strong security about fake review and ratings.
- iv. Bring AI to product return or alter process.

References:

1. Radhika Bhadiya.2017.Fake Review Detection.Juit.22:38-53.
2. Aishwarya.2019.Fake Consumer Review Detection.India.11:46-57.

3. P Santhi Thilagama, P V Bindua. Mining Social Networks for Anomalies: Methods and Challenges. India. Elsevier. pp 1-22.
4. B. Liu, N. Jindal. 2007. Analyzing and Detecting Review Spam. Data Mining. pp- 547-552.
5. Begina Brazil, Benjamin Snyder. Multiple Aspect ranking using the Good Grief Algorithm. Computer Science and Artificial Intelligence Laboratory Massachusetts Institute of Technology. 2007
6. Parag Singla, Happy Mittal, Amitabha Bagchi, Mona Gupta. 2014. Characterizing comparison shopping Behavior. ICDE workshop. IEEE. pp 115-122.
7. Pintu Kumar, Najma Sultana, SK Sfikul Alam, Sourab Chandra. 2019. Sentiment analysis for product review. Research Gate. 09:1914-1919.
8. B. Liu, N. Jindal. 2008. Opinion spam and analyze. International Conference. pp- 215-235
9. Ivan Tetovo. 2011. Urbana. A joint model of text and aspect ratings for sentiment summarization. pp 112-225
10. Jui-Yu Lin, Sheng Chen. 2013. Kuala Lumpur, Malaysia. A Study on review manipulation classification using decision tree. IEEE conference publication. Pp 4-9.
11. Prof. Deipali, V. Gore, Rajashree S. Jadhay. 2014. A new approach for Identifying manipulated online reviews using decision tree. IJCSIT. 5:2. Pp 1445-1455.