Major Project Report

On

BOAT CLONE

Submitted by

K.Harika R170696
Y.Sandhya Rani R170705
K.Shireesha R170704

Under the guidance of

Sir Lingamurthy
System Administrator
Department of CSE

Department of Computer Science and Engineering

Rajiv Gandhi University of Knowledge and Technologies(RGUKT),

R.K.Valley, Kadapa, Andra Pradesh.

Rajiv Gandhi University of Knowledge Technologies

RK Valley, Kadapa (Dist), Andhra Pradesh, 516330

CERTIFICATE

This is to certify that the project work titled "**BOAT CLONE**" submitted by **K.Harika** (R170696) ,**Y.Sandhya Rani**(R170705),**K.Shireesha**(R170704), in partial fulfillment of the requirements of the award of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out by them under the supervision and guidance.

B. Lingamurthy
System Administrator
Department of CSE
Project Internal Guide
Computer Science and Engineering
RGUKT R.K.Valley

N. Sathyanandaram
Head of the Department
Computer Science and Engineering
RGUKT R.K.Valley

Submitted for the practical examination held on .....

Internal Examiner **External Examiner**

DECLARATION

We, **K. Harika (R170696) , K.Shireesha (R170704) , Y.Sandhya Rani (R170705) ,** hereby declare that the project report entitled **" BOAT CLONE "** done by us under the guidance of Sir **B.Lingamurthy,** System Administrator, Department of CSE is submitted in partial fulfillment for the degree of the Bachelor of Technology in Computer Science and Engineering during the academic session 2022 – 2023 at RGUKT R.K.Valley.We also declare that this project is a result of our own effort and has not been copied or imitated from any source. Citations any websites are mentioned in the references. The results embodies in this project report haven't been submitted to any other university or institute for the award of any degree or diploma.

ACKNOWLEDGEMENT

We would to express our sincere gratitude to Sir **B.Lingamurthy,** System Administator Department of CSE our project Supervisor for valuable and keen interest throughout the progress of our project. We are grateful to Sir **N Satyanandaram**, Head of the Department CSE for the providing congenial atmosphere for progressing with our project. We extend our sincere gratitude to the department of Computer Science and Engineering. My sincere thanks to all who have supported me to gain knowledge about actual working involved in various technologies.

Abstract

We are worked on a project entitled Boat clone. Boat clone is one of India's finest e-commerce Website dealing in headphones and other audible devices.Users can login or signup, explore products, buy products and do much more. This website can process orders,accept payments, manage shipping and logistics, and provide customer service.

For now we are worked on integrating all these 4 types of Categories and we will be adding more.

They are:

1.Speakers

2.Smart Watches

3.Air Dopes

4.EarPhones

1.Speakers:
The speakers make it easier for us to listen to music and sounds. It is simple to connect the speakers To a computer system. Multiple people can receive a message at once. Plays sound when playing video games, watching movies, or listening to music.

2.Smart Watches:
Smart Watches are trending devices that give usres the ability to be connected, send and/receive emails and messages ,keep track of health and fitness,and even make calls on the go.we found that he watches stores a lot of personal information such as a contact details, text messages,calender,details,Emails,pictures .

3.Air Dopes:
Boat Airdopes are trending devices, this Airdopes are 131 true wireless earbuds comes with IWP technology,you just have to open the case and the earbuds automatically pair with your device in an instant. You can tap into four times the charge with its 650mAh

4.EarPhones:
When listening through headphones, external noise is dampened, which allows you to focus on what you're listening to without distraction from other people or surrounding noises.This is especially beneficial if you want to concentrate while working, studying, or taking online classes.

Contents

1.Introduction

1.1 Description:

Our project entitled Boat clone , Boat clone is a india's finest-ecommerce website dealing in headphones and other audible devices. User can login and signup, explore products,buy products do much more.The website can process orders, accept payments managind shippings and logistics and provide customer service.

1.2 Purpose:

To ease our work and make it faster and effective. As this is a web Application, we do not have to worry about storage too.

1.3 Scope:

Here users can shop for audio products it also includes payment integration. This system allows the customer's maintain their cart for add or remove the product over the internet.

1. Registration:
If customer wants to buy the product then he/she must be registered,
Unregistered user cant't go to the shooping cart.

2. Login:
Customer logins to the system by entering valid user id and password of the shopping.

3. Add to cart:
Add to cart means the customer after login or registration can make order or remove order of the product from the shooping cart.

4. Payment:
In this system we are dealing the mode of payment by card and Paypal.we will using Extend to credit card,debit card etc in the future.

5.Update details:
User can update the details of name,address,phone number etc...

6.Logout:
After ordering or surfing for customer has to the product logout.

2. Literature Review

2.1 HTML

HTML(Hyper Text Markup Language) is the code that is used o structure a web page and its content.For example,content could be structured withhin a set of paragraphs,a list of bullet points or using images and data tables.As the title sugest this article will give you a basic understanding of html and its functions.HTML is a markup language that defines the structure of your content.HTML consists of series of elements,which you use to enclose or wrap ,different parts of the content to make it appear a certain way.The enclosing tags can make a word or image hyperlink to somewhere else,can italicize words,can make the font bigger or smaller and so on.

2.2 CSS

CSS stands for cascading styles sheets .It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provide an additional feature to HTML. It is generally used with HTML to change the style of web pages and user interfaces. It can be used with any kind of XML documents including plain XML ,SVG and XUL. CSS is used along with HTML and JavaScript in most websites to create user interfaces for web application and user interfaces for many mobile applications.

2.3 Javascript

JavaScript (js) is a light-weight object-oriented programming language which is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language that enables dynamic interactivity on websites when applied to an HTML document. It was introduced in the year 1995 for adding programs to the webpages in the Netscape Navigator browser. Since then, it has been adopted by all other graphical web browsers. With JavaScript, users can build modern web applications to interact directly without reloading the page every time. The traditional website uses js to provide several forms of interactivity and simplicity.

2. Literature Review

2.4 Node.Js

Node.js is a open source cross-plartform, Java runtime envronment that executes code outside of a web browser .it allows developers to build scalable work network appilication using non-blocking I/O model, Which makes its well-suited for building real-time ,in data-intensive appilications.Node.js was build on top of Google's V8 JavaScript engine, which is the same engine used by the google chrome.it was created by Ryan Dahl in 2009 and has since become a popular tool for buliding server-side application, command line tool, and desktop appilications.

2.5 Mongo DB

Mongo DB is a popular open source NoSQL document-oriented database that is designed for storing retrieving and managing data in a flexible and scalable manner.Unlike traditional relational database, MongoDB stores data in a flexible JSON-like documents,making it well-suited for handling unstructured or semi-structured data. MongoDB was first released in 2009 and has since become one of the most popular NoSQL database,used by companies such as eBay,linkdin,and Adobe.it is known for its high performance ,scalability,abd ease to use ,as weel as its ability to handle large volumes of data with low latency.

2.6 React.js

React.js is a known as a React is an open source JavaScript library for building user interfaces it was created by facebook and first released in 2013.React allows developers to build reusable UI component that can be used across different pages or appilications,making it well-suited for building complex,data-driven application. React is based on a component-based architecture, where each component represents a small ,reusable piece of the user interface.that components are then combined to build morecomplex Uis, with each component responsible for its own logic and rendering. The traditional website uses js to provide several forms of interactivity and simplicity.

3.Software Requirement Specification

Functional Requirements:

Functinal requirements show the operation and activities the system must be able to perform.The functional Requirements of Users.

- Secure Access
- It allows Multiple user access at a time.
- It allows user to view all the products withing the website.
- It allows user to book the product.
- It allows user to do payments.
- It allows user to logout their account.

Non-functional Requirements:

Usability:

The system is designed with completely automated process hence there is no or less user intervention

.

Realiability:

The System is more reliable because of the qualities that are inherited from the chosen platform html,css,Javascript,Node.Js,React.Js,MongoDB.

Performence:

This System is developing in the high level languages and using the advanced fron-end and back-end technologies it will give response to the end user on client System with in very less time.

Supportability:

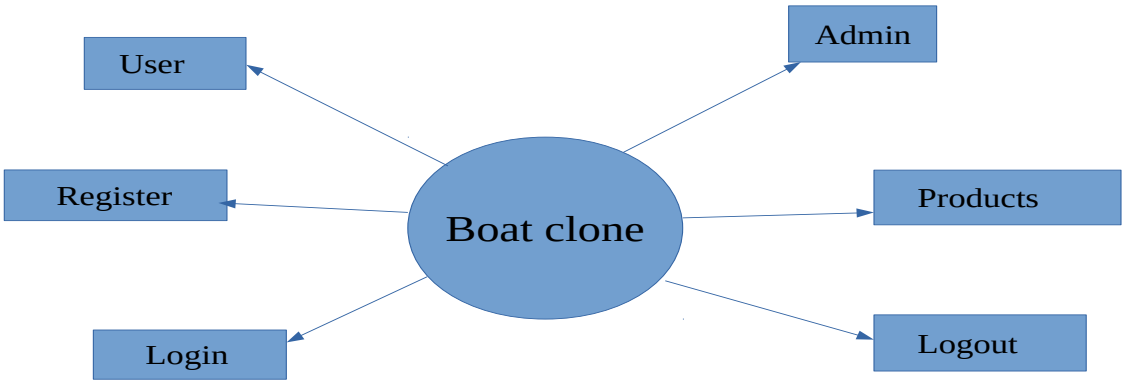
The System is desingned to be the cross platform supportable .The system is Supported on wide range of hardware and any softaware platform.

Scalability:

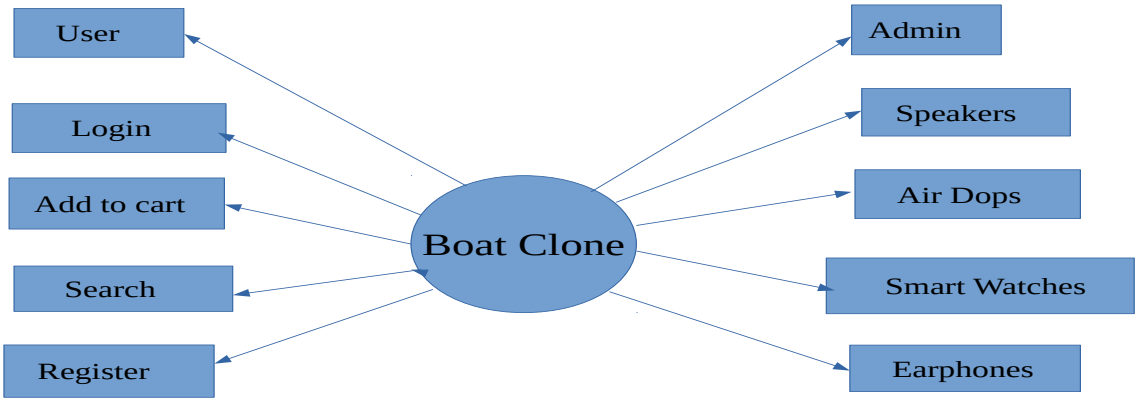
The System is designed to be test the scalability by adding additional load to the website.

4. System Design

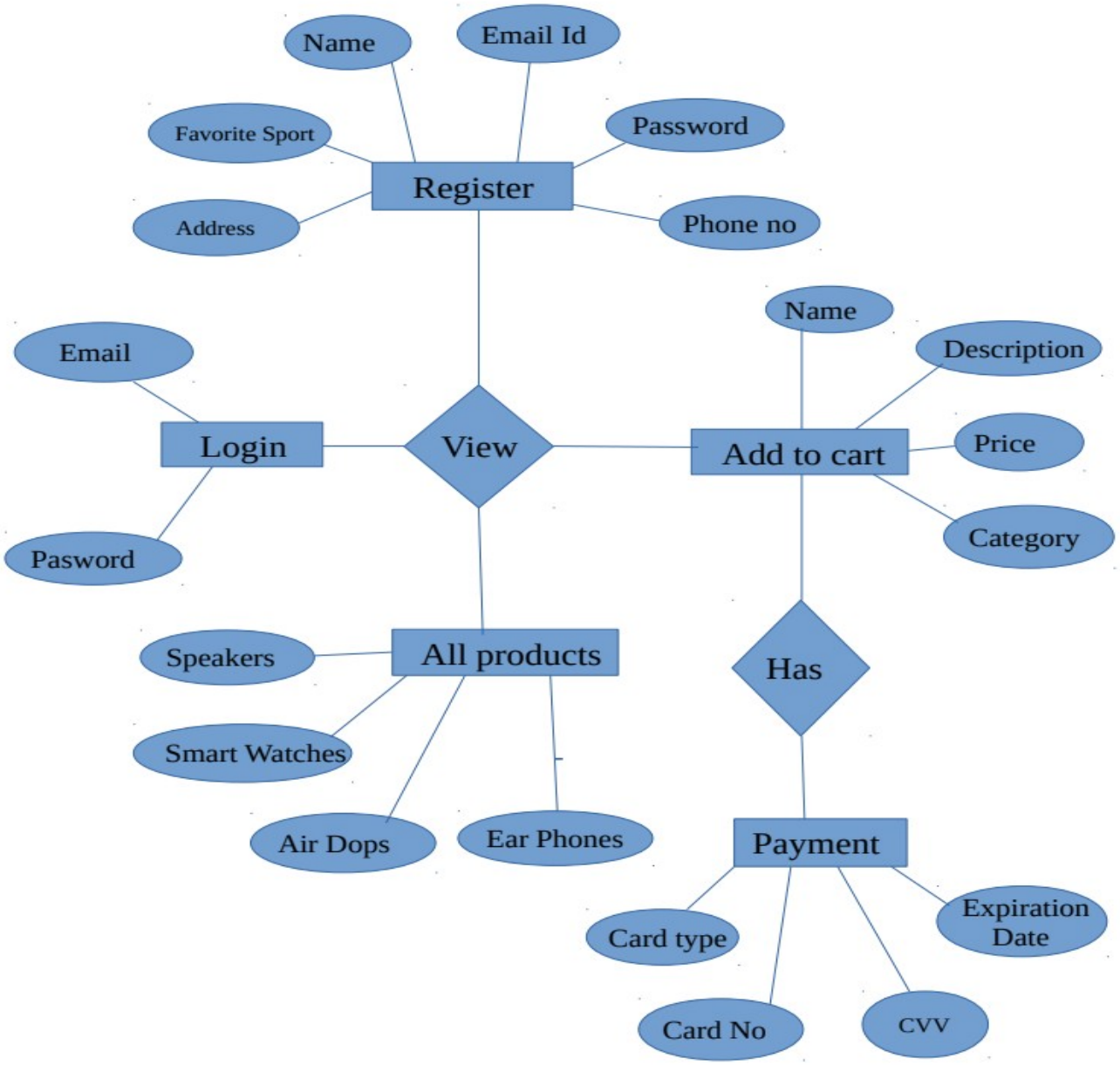
4.1 Zero Level Data Flow Diagram



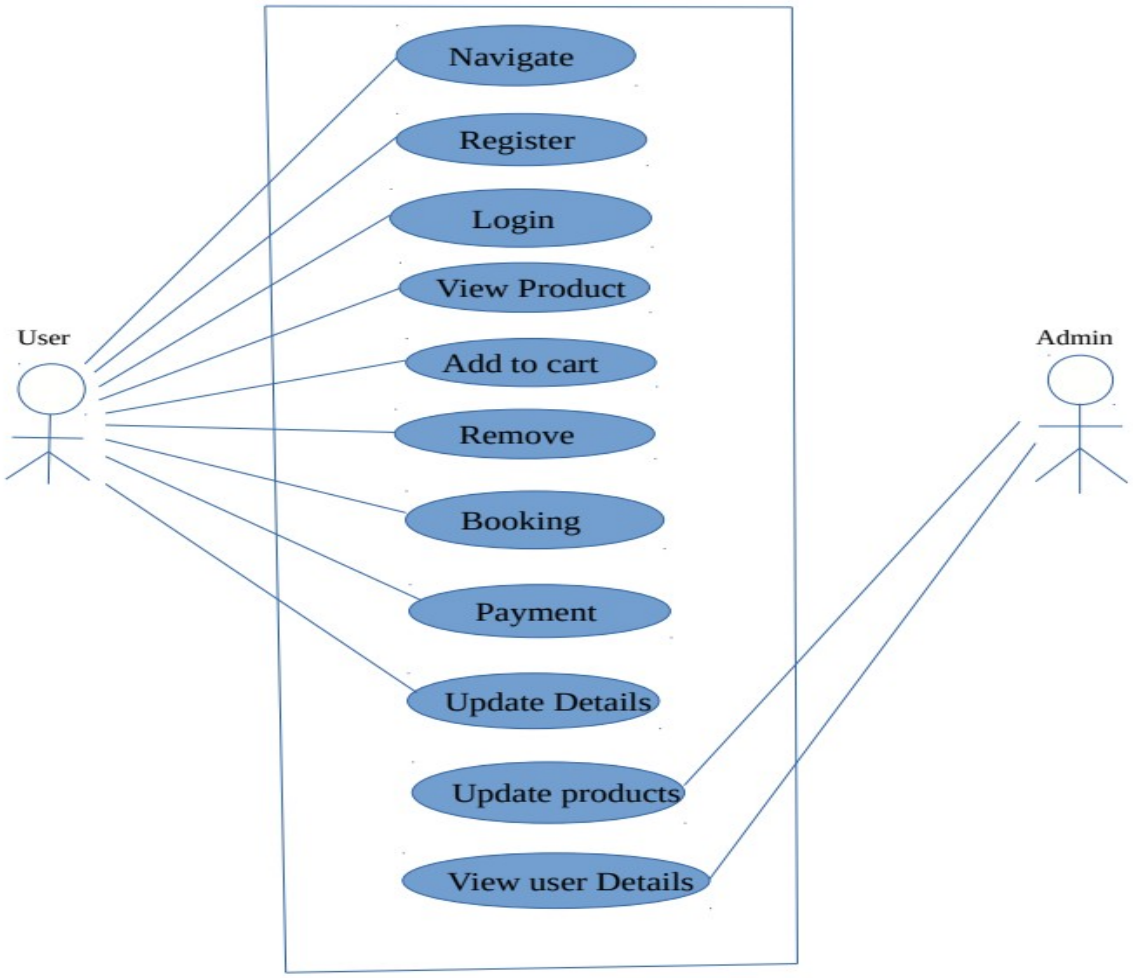
4.1 First Level Data Flow Diagram



4.3 ER Diagram



4.4 Use Case Diagram



5.Coding Or Implementation

Implementation is the stage of the project when the threoretical design is turned out into work system.Thus it can be considered to be the most critical stage in achieving a successful new system and in giving the user ,confidence that the new system will work and be affective

The implementation stage involves careful planning,investigation of the existing system and it’s constrains on implementation,designing of methods to achieve changeover and evaluation of changeover methods

Index.html

```
<!DOCTYPE html>
  <meta
    name="description"
    content="Web site created using create-react-app"
  />
  <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
  <!--
    manifest.json provides metadata used when your web app is installed on a
    user's mobile device or desktop. See
https://developers.google.com/web/fundamentals/web-app-manifest/
  -->
  <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
  <link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/
bootstrap.min.css"
    rel="stylesheet"

integrity="sha384-GLhlTQ8iRABdZLl6O3oVMWSktQOp6b7In1Zl3/Jr59b6EGGoI1aF
kw7cmDA6j6gD"
    crossorigin="anonymous"
  />
  <!--
    Notice the use of %PUBLIC_URL% in the tags above.
    It will be replaced with the URL of the `public` folder during the build.
    Only files inside the `public` folder can be referenced from the HTML.

    Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will
    work correctly both with client-side routing and a non-root public URL.
    Learn how to configure a non-root public URL by running `npm run build`.
  -->
```

```
  <title>Boat-Clone_BySunny</title>
 </head>
 <body>
  <noscript>You need to enable JavaScript to run this app.</noscript>
  <div id="root"></div>
  <script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js
"
    integrity="sha384-
w76AqPfDkMBDXo30jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwxhTBTkF7CXv
N"
    crossorigin="anonymous"
  ></script>
  <!--
    This HTML file is a template.
    If you open it directly in the browser, you will see an empty page.

    You can add webfonts, meta tags, or analytics to this file.
    The build step will place the bundled scripts into the <body> tag.

    To begin the development, run `npm start` or `yarn start`.
    To create a production bundle, use `npm run build` or `yarn build`.
  -->
 </body>
 <script src="https://randojs.com/1.0.0.js"></script>
</html>
```

Index.css:

```
@import url("https://fonts.googleapis.com/css2?
family=Playfair+Display:wght@700&family=Poppins:wght@300;400&display=swap")
;

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

/* font-family: 'Poppins', sans-serif; */
/* font-family: 'Playfair Display', serif; */

/* //navbar css */
.navbar {
  padding-top: 20px !important;
  padding-bottom: 20px !important;
  padding-left: 40px !important;
  padding-right: 40px !important;
  font-weight: bold !important;
  font-size: 17px;
  line-height: 26px;
  text-transform: uppercase;
  box-shadow: 0 8px 6px -6px gray;
  --webkit-box-shadow: 0 8px 6px -6px gray;
  border-bottom: solid gray !important;
}

.nav-link {
  font-weight: 300 !important;
}

.active {
  border-bottom: 2px solid black;
}
.navbar-brand {
  font-weight: 700;
  font-family: "roboto", sans-serif;
  letter-spacing: 3px;
}
.search-form {
  margin-right: 10px;
  margin-top: 4px;
  min-width: 400px;
}
```

```
.thumbs{
  display: none !important;
}
.carousel-root{
  margin-left: 40px !important;
  margin-right: 40px !important;
}
/* ============================
==========footer============ */

.footer {
  color: white;
  padding: 25px;
  background: #000000; /* fallback for old browsers */
  background: -webkit-linear-gradient(
    to right,
    #434343,
    #000000
  ); /* Chrome 10-25, Safari 5.1-6 */
  background: linear-gradient(to right, #434343, #000000);
}

.footer a {
  text-decoration: none;
  color: white;
  padding: 10px;
}

.footer a:hover {
  color: #ffefba;
  border-bottom: 1px solid #ffefba;
}
.pnf {
  display: flex;
  min-height: 65vh;
  flex-direction: column;
  align-items: center;
  justify-content: center;
}

.pnf-title {
  font-size: 100px;
  font-weight: 700;
}
```

```
.contactus {
  margin: 0;
  padding: 0;
  height: 70vh;
  display: flex;
  align-items: center;
  justify-content: center;
}
  .cat-btn:hover {
  background-color: #434343;
  color: white;
}
/* ================
====dashboard
=================== */

.dashboard {
  margin-top: 100px !important;
}

.dashboard-menu h4 {
  background-color: #434343 !important;
  color: white;
  padding: 20px 0px;
}



.containerwidth{
  max-width: 90% !important;
}



.filtercategories{
  background-color: #e3e3e3;
  padding-left: 20px;
  padding-right: 20px;
  padding-bottom: 10px;
  padding-top: 10px;
  border-radius: 20px;
  font-weight: bold;
  font-size: 18px;
  cursor: pointer;
}
```

App.js:

```
import { Routes, Route } from "react-router-dom";
import HomePage from "./pages/HomePage";
import Pagenotfound from "./pages/Pagenotfound";
import Register from "./pages/Auth/Register";
import Login from "./pages/Auth/Login";
import Dashboard from "./pages/user/Dashboard";
import PrivateRoute from "./components/Routes/Private";
import ForgotPasssword from "./pages/Auth/ForgotPasssword";
import AdminRoute from "./components/Routes/AdminRoute";
import AdminDashboard from "./pages/Admin/AdminDashboard";
import CreateCategory from "./pages/Admin/CreateCategory";
import CreateProduct from "./pages/Admin/CreateProduct";
import Users from "./pages/Admin/Users";
import Orders from "./pages/user/Orders";
import Profile from "./pages/user/Profile";
import Products from "./pages/Admin/Products";
import UpdateProduct from "./pages/Admin/UpdateProduct";
import Search from "./pages/Search";
import ProductDetails from "./pages/ProductDetails";
import Categories from "./pages/Categories";
import CategoryProduct from "./pages/CategoryProduct";
import CartPage from "./pages/CartPage";
import AdminOrders from "./pages/Admin/AdminOrders";
function App() {
 return (
   <>
    <Routes>
      <Route path="/" element={<HomePage />} />
      <Route path="/product/:slug" element={<ProductDetails />} />
      <Route path="/categories" element={<Categories />} />
      <Route path="/cart" element={<CartPage />} />
      <Route path="/category/:slug" element={<CategoryProduct />} />
      <Route path="/search" element={<Search />} />
      <Route path="user" element={<Dashboard />} />
       </Route>
       </Route>
      <Route path="/register" element={<Register />} />
      <Route path="/forgot-password" element={<ForgotPasssword />} />
      <Route path="/login" element={<Login />} />
       </Routes>
   </>
 );
}
    export default App;
```

db.js:

```
import { Routes, Route } from "react-router-dom";
Import mongoose from “mongoose”;
Import colors from “colors”;
 Const connectDB=async()-->{
Try{
      Const conn = await mongoes.connect(process.env.MONGO_URL);
      Console.log(
            Connected to Mongodb Database ${conn.connection.host}.bgMagenta.white
        );
  }
     Catch (error)
    {
        Console.log(“Error in Mongodb ${error} .bgRed.white);
     }
  );
       Export default connectDB;
```

6. Testing

Software testing is an investigation conducted to provide stakeholders with information about the quality of product or service under test. Software testing is a process used to identify the correctness, completeness and quality of developed computer software. Actually, testing can never establish the correctness of computer software, this can only be done by formal verification. It can only find defects

Why system testing is required?.

1. It is a first level software testing where the software or application is tested as whole.

2.. It is done to verify and validate the technical business functional and non-functional requirements of the software. It also include the verification and validation of software application architecture.

Testing Methods

White Box Testing (WBT) :

Entire WBT is done by developers. It is thetesting of each and every line of code in the program.Developers do WBT, sends the s/w to testing team. The testing team does black box testing and checks the s/w against requirements and finds any defects and sends it to the developer.The developers fixes the defect and does WBT and sends it to the testing team.Fixing defect means the defect is removed and the feature is working fine

Grey box testing(GBT) :

It is a mixture of both white box as well as black box testing and it is generally done by the test engineer who has knowledge of both coding and testing

Black box testing(BBT) :

It is a type of testing done by the test engineers where he/she checks if the application(s/w) is working according to the requirement specification.

Integration Testing

Integration testing is any type of software testing that seeks to verify the interfaces between components against a software design. Software components may be integrated in an iterative way or all together.Integration testing works to expose defects in the interface and interaction between integrated components.

System Testing

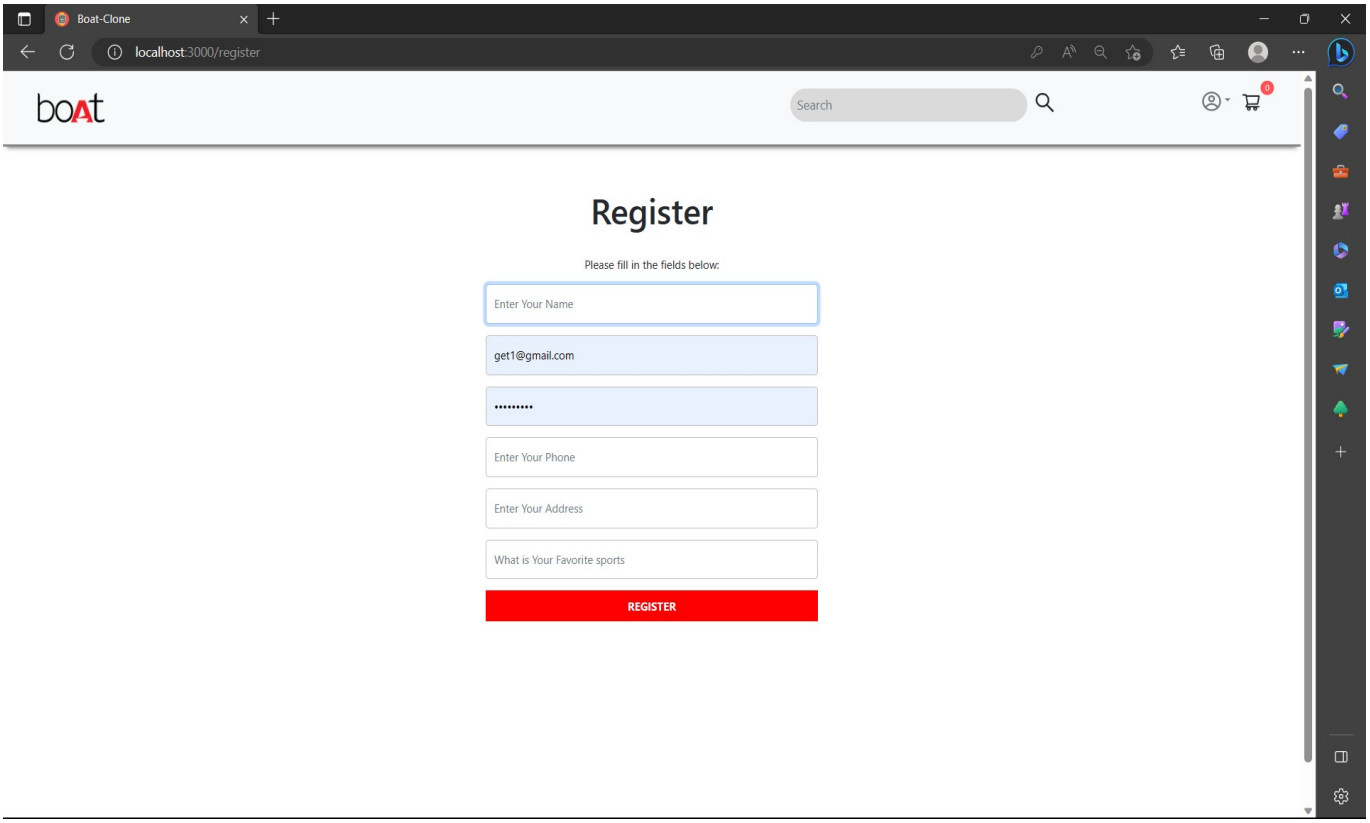
System testing tests a completely integrated system to verify that requirements.

Agile Testing

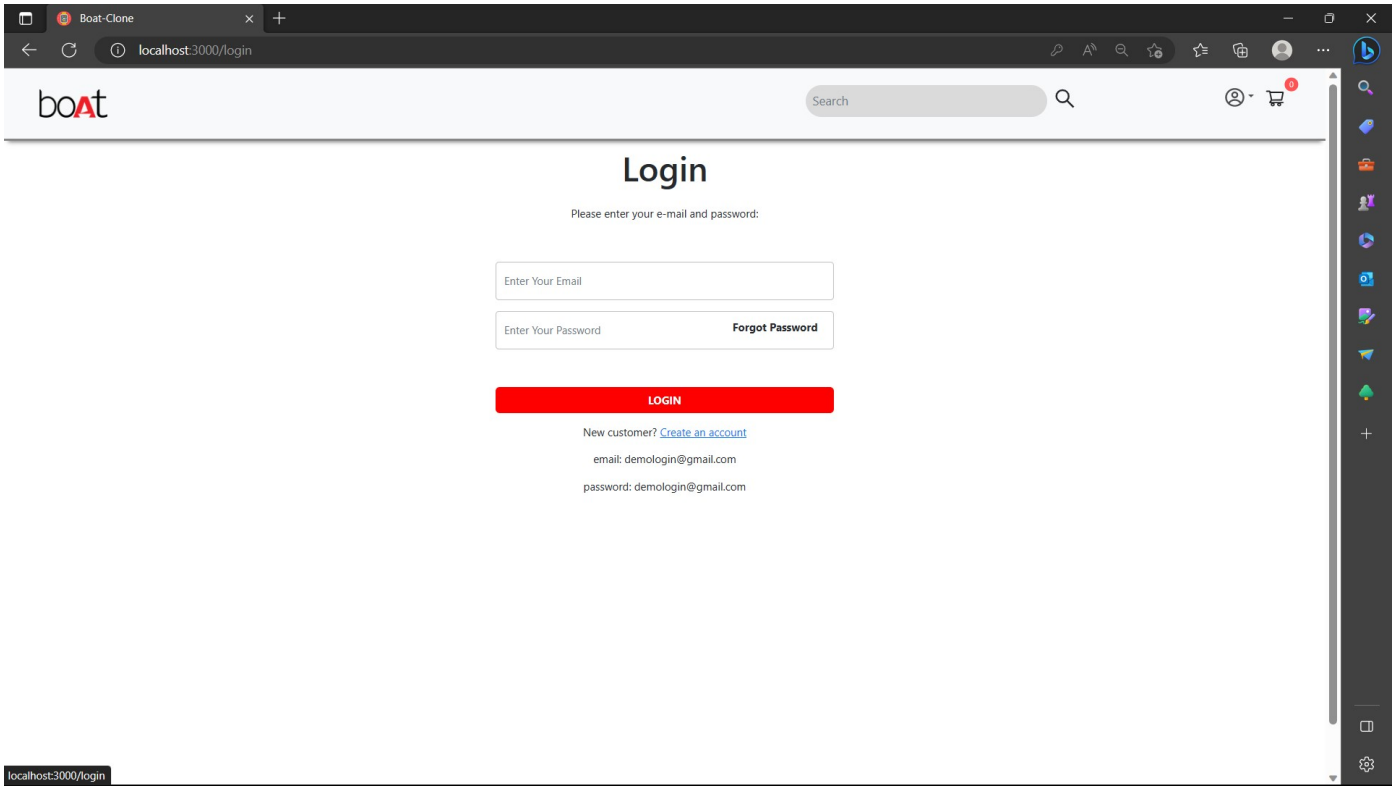
Agile testing is a software testing practice that follows the principles of Agile software development.Agile testing involves all the members of a cross functional agile team, with special expertise contributed by testers, to ensure delivering business value desired by the customer at frequent intervals.

Output

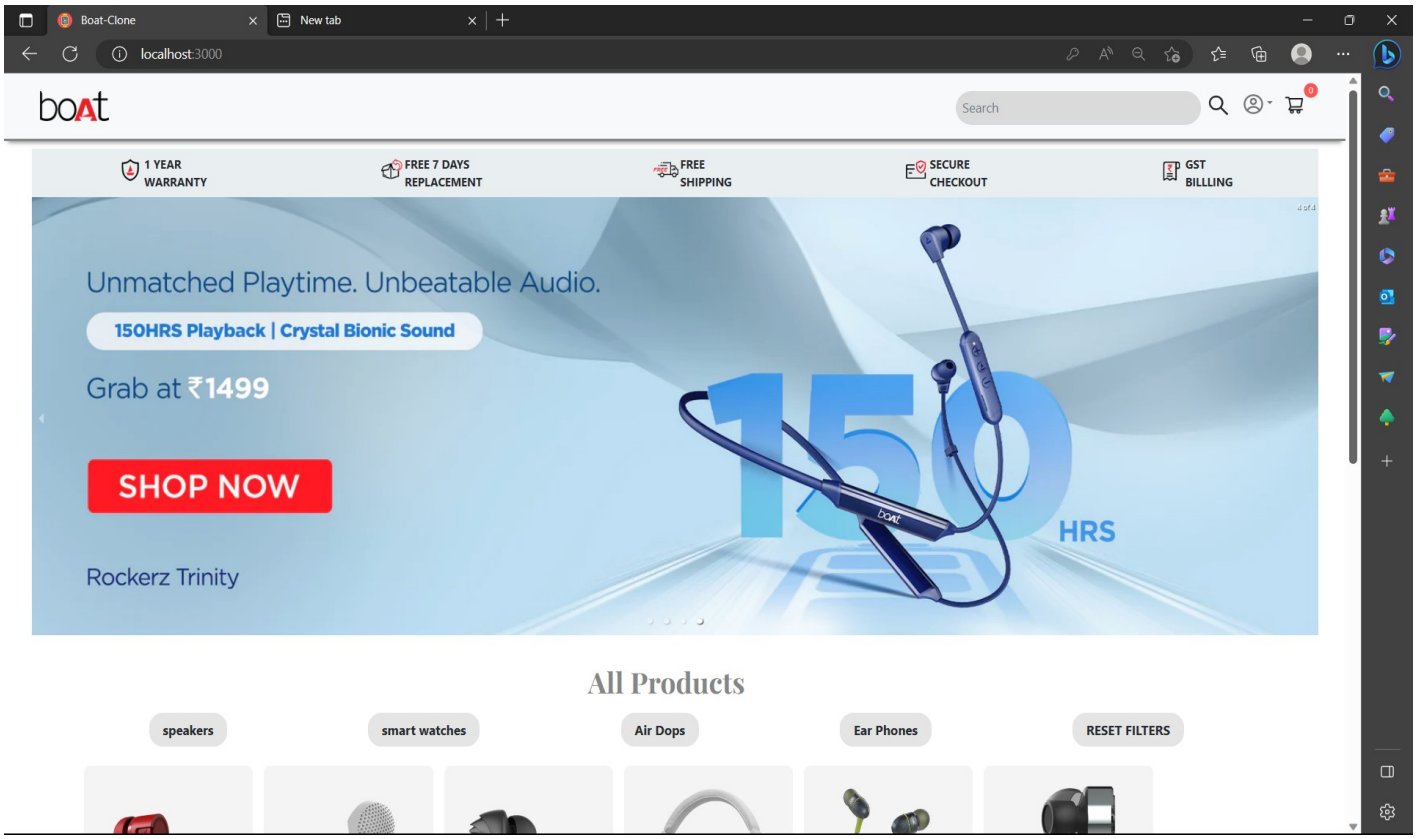
1.First we have to Signup to Register.



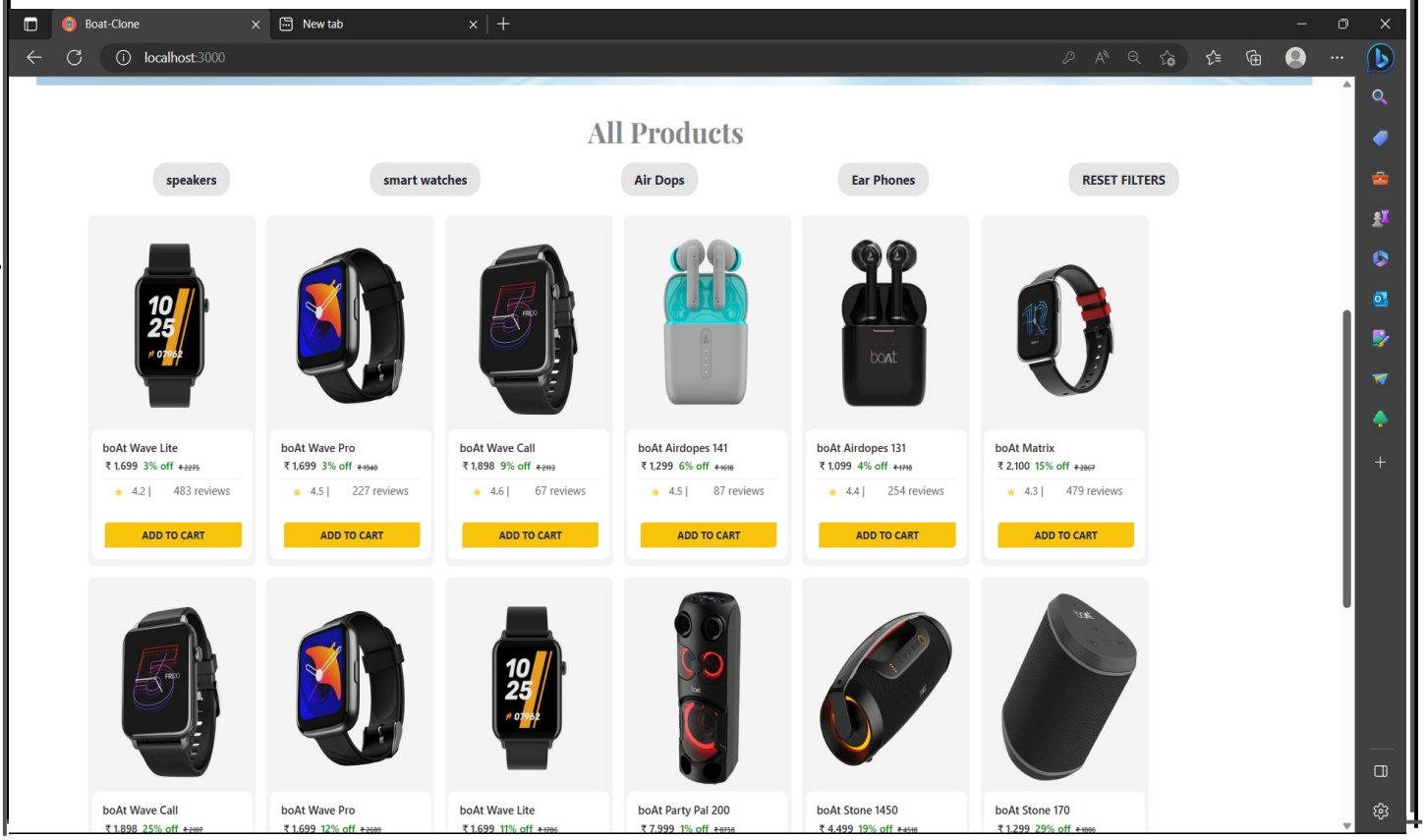
2.After Register we have to Login with Emailid



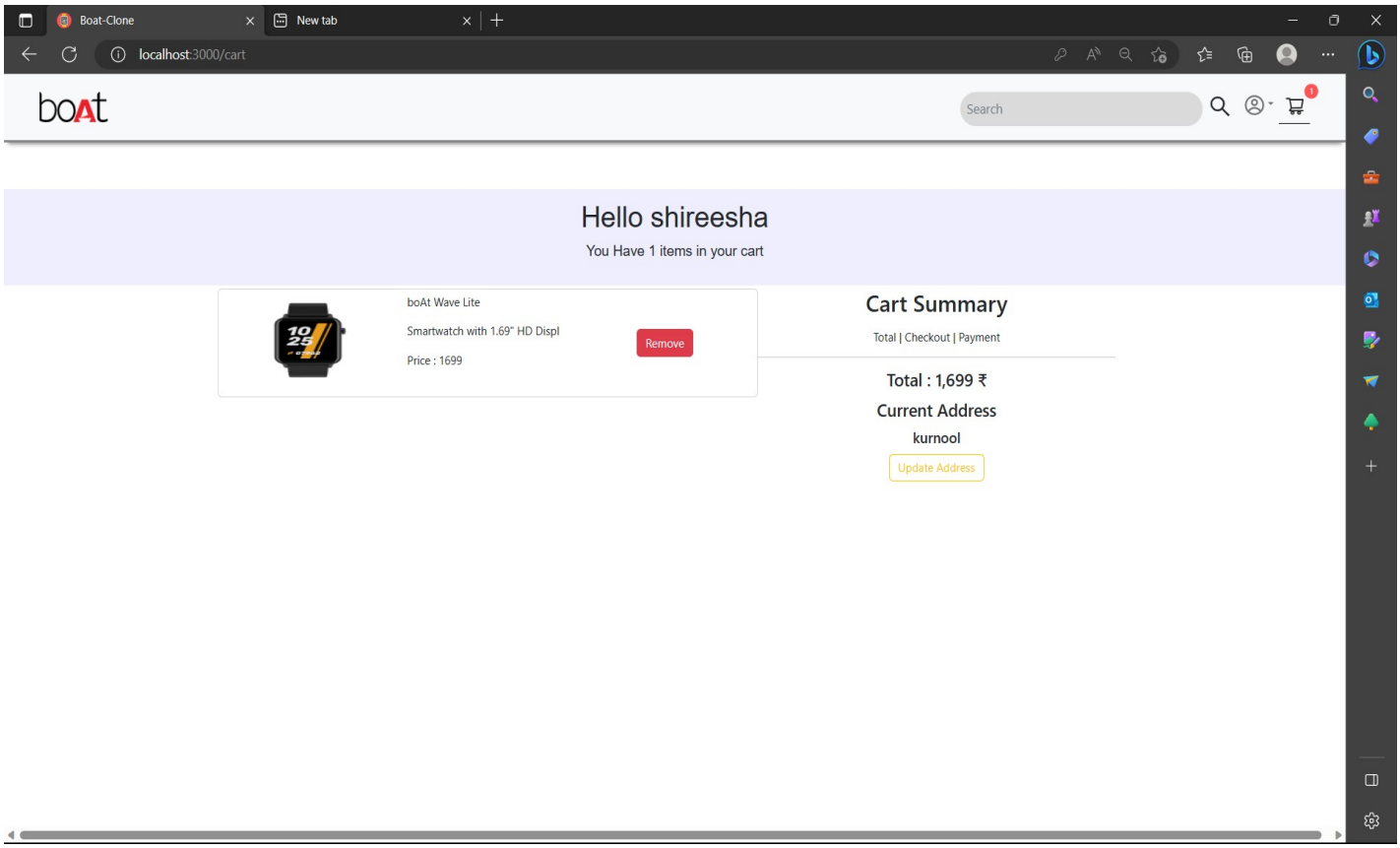
3.After login the Homepage is visible.



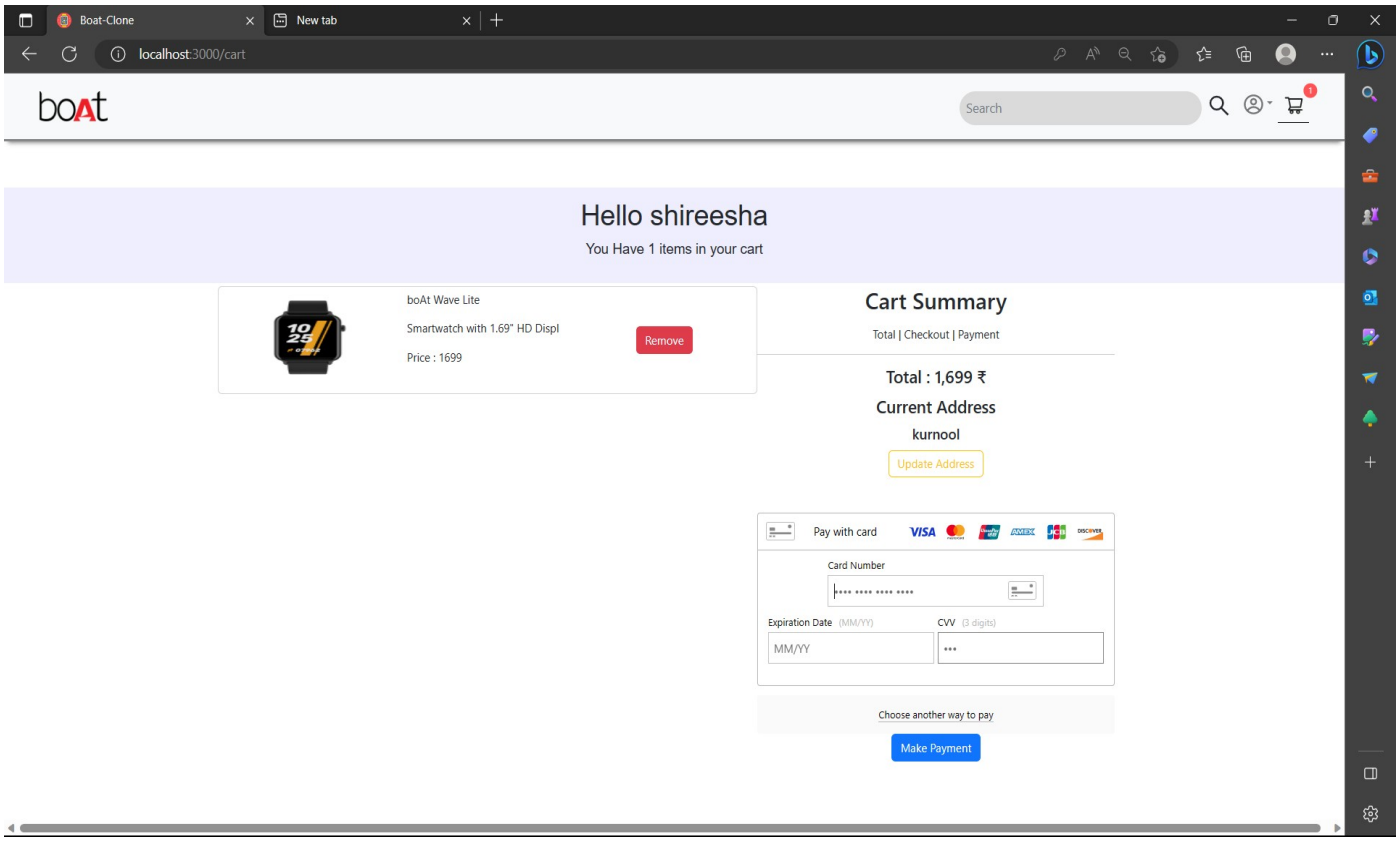
4.The Products are displayed.



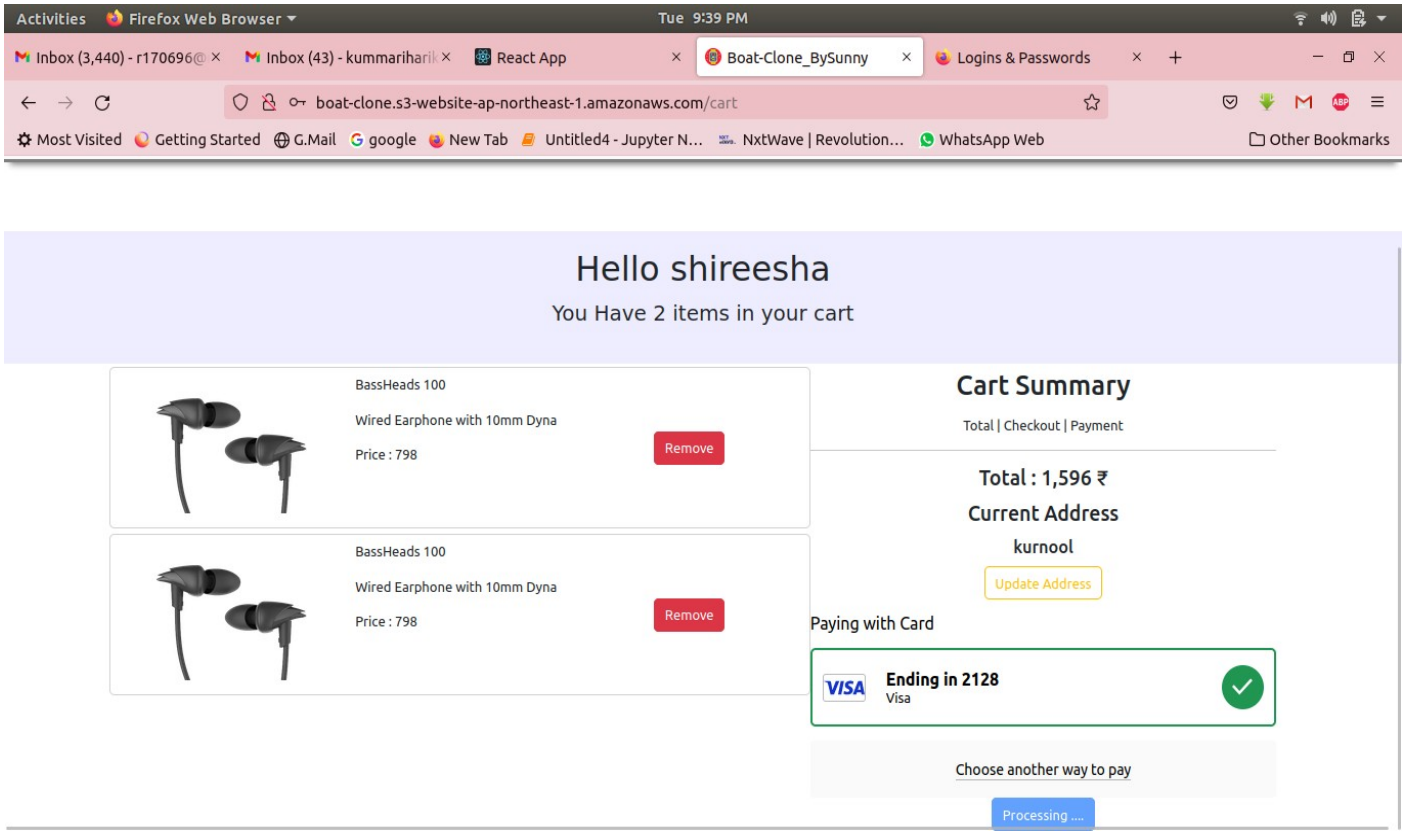
5.Select any products and add to cart for payment.



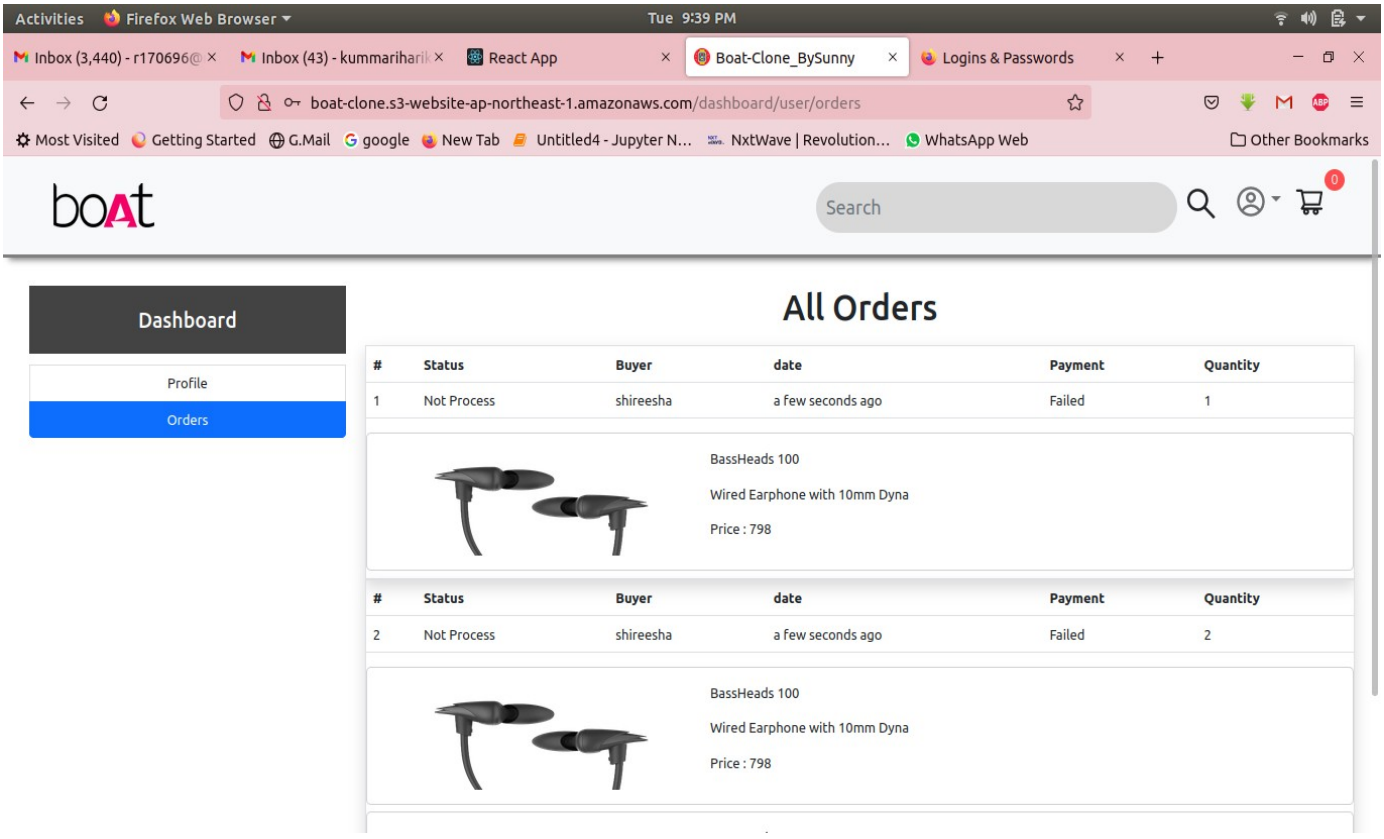
6.Select the payment mode options.



5.After the entering details the payment has been Procesing.



6.After processing the payment has done and get the total amout status of the product.



Applications:

This system provides an easy solution for customers to buy the product without going to shop and also to shop owner to sale the product.

This proposed system can be used by any navie users and it does not require any educational level, experience or technical expertise in computer field but it will be of good use . If user has the good knowledge of how to operate a computer.

Conclusion

The Boat clone application enables vendors to set up the online shops customers to Browse through the shops, and a system administrator to approve and reject for new shops and maintain lists of shop categories.

Also the developer is designing an online shopping site to manage the boat products in the shop and also help customers to purchase them without visiting the shop physically. Here users can shop for audio products it also includes payment integration.

References

1) Javatpoint
2) W3Schools
3) Github References
4) Youtube