

ECOMMERCE WEBSITE

Submitted in partial fulfilment of requirements
of

IET FULL STACK DEVELOPMENT COURSE

By

Name	Roll Number
Riya Kamble	202103028
Divyajothi Raja	202103011
Ekta Bajpayee	202102003

**Under the guidance of
Dr. Vaishali Gaikwad**



Xavier Institute of Engineering,
Mahim, Mumbai - 400 016,
University of Mumbai
(AY 2022 - 23)

Abstract

The online E-Commerce Website is a web-based application that allows customers to place online orders and buy varieties of goods available on our website in a single click. The application includes features such as user-friendly UI, user choices are encountered properly, add to cart option, etc. The project is developed using HTML, CSS, JavaScript and Bootstrap. The application provides a user with hassle free experience of shopping on websites. By addressing the current gap in the market and providing a reliable platform for commercial transactions over the web. An online store is a virtual store on the internet where customers can browse the catalogue and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order.

Acknowledgments

It gives us great pleasure to express our profound gratitude to our project guide Mr. Rahul Rathore for his constructive academic advice and guidance, constant encouragement, valuable suggestions, and all other support throughout this project work. We would like to appreciate all those who inspired and provided extra support to help us work on this project and make it successful.

We would also like to appreciate the guidance given by other supervisors as well as the teachers to complete the project. We would like to appreciate all those who inspired and provided extra support to help us work on this project and make it successful. Thank you to everyone who has contributed to the success of the project.

Contents

Abstract	2
Acknowledgments	3
1 Introduction	5
1.1 Motivation	5
1.2 Problem Statement and Objectives	6
1.3 Objectives	7
2 Features	8
3 Implementation	9
3.1 Proposed System	9
3.2 Architecture/Framework	10
4 Code	11
5 Results	14
Conclusion	17
6 References	18

1 Introduction

1.1 Motivation

The world of online shopping has revolutionized the way we buy things. From clothing to groceries, everything can now be purchased with just a few clicks. One of the most significant advantages of online shopping is the ability to browse a vast selection of products from the comfort of our homes. Now a days each and every product is available online and there are huge amount of users who purchase products through E-commerce websites.

1.2 Problem Statement and Objectives

The E-Commerce website will have several features, including a user registration page, a login page, a shopping cart where users searched and bought orders will be stored where this data will be used for the further expansion in website, order tracking facilities. Customers will be able to create an account, save their personal details and payment information, and add items to their shopping cart. Overall, this project aims to showcase the power of HTML, CSS, Javascript, Bootstrap in building efficient and scalable web applications. By creating An E-Commerce website, we hope to provide an enjoyable and seamless shopping experience to our customers.

1.3 Objectives

The goal of this project is to create a user-friendly platform for customers to browse products from the website according to users search and place orders accordingly. Customers will be able to browse the products, view the details of each item, and make purchases online with their affordable price. To achieve this, we have used HTML, CSS, Javascript, Bootstrap for front end part of the project. We have used Firebase for Backend.

2 Features

- Signup login: The registration , signup process used are user-friendly and straightforward. Registering through phone numbers, and email id is popular. So , we have added this feature to the registration ,signup process.
- Search groceries: Searching is the essential feature not only for grocery applications but also for any online shopping application or website so ,we have introduced this feature in our application. This search feature will offer comfort to the user to search for items. Moreover, we have added various kinds of filters such as price range, sort from high price to low price, and so on; so as to make the process of searching easy for the users.
- Add to cart: This feature allows user to choose items to purchase without actually completing the payment . As opposed to a buy button the add-to cart button allows the user to save items to their cart so they can continue their shopping , then complete the checkout process later on in the process, resulting in a more seamless customer experience. It also allows shoppers to purchase multiple items at one time.
- Organised grocery: With this feature we provide our users a category based shopping , since we have pre assembled all our groceries in different categories the users will be saving a lot of time with this . This will make shopping easier and faster for the users.
- Special offers: This feature was added while keeping in mind the need of our users , since many people were greatly affected by the pandemic . thus we provide our users these special offers that will help them to save money without compromising their needs. Payment Gateway : Once the order is placed by the users, it's time to checkout to complete the process. Cash on delivery is an important feature. This is a safer way of payment ,This will greatly help our senior citizens as most of them are not accustomed with the new technologies.

3 Implementation

3.1 Proposed System

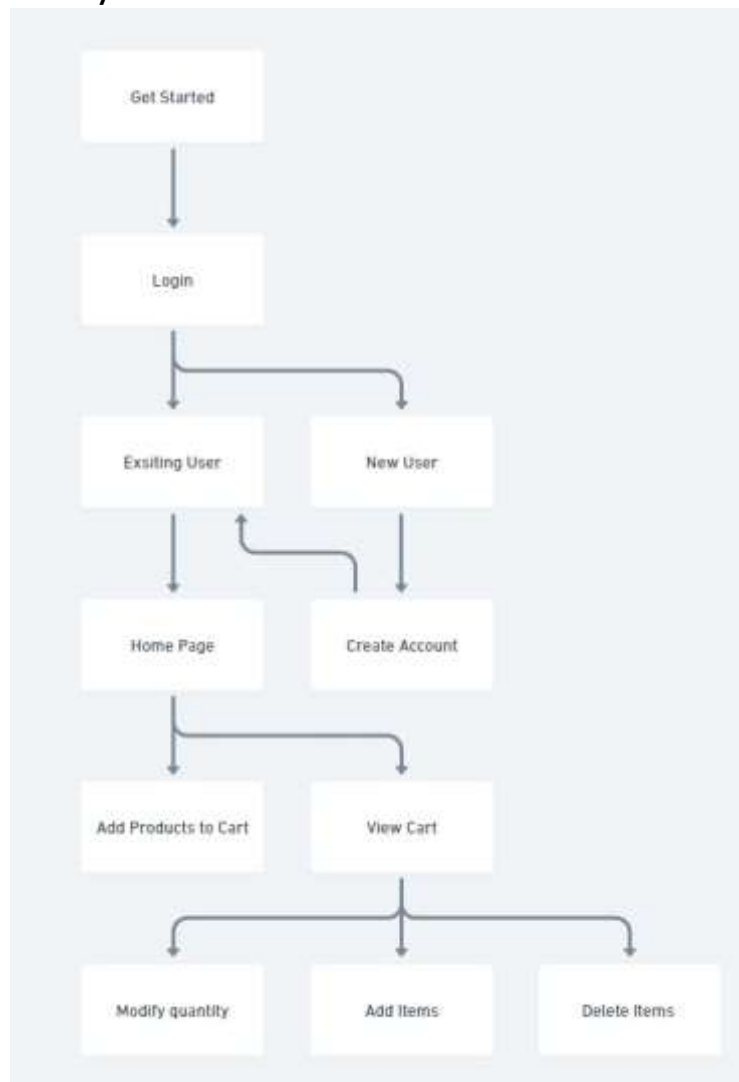
- **User Registration and Authentication:** Users can create an account by providing their personal details such as name, email address, contact number, and password. Upon registration, users receive a verification email to confirm their email address. Users can log in using their credentials or with social media accounts like Google or Facebook.
- **User Profile:**

Users have a profile section where they can manage their personal information, delivery addresses, and payment methods. They can also view their order history, track current orders, and manage subscriptions if applicable.
- **Product Catalog:**

The website should provide a comprehensive catalog of grocery products. Products should be organized into categories (e.g., fruits, vegetables, dairy, snacks) and offer search and filter options to enhance user browsing experience. Each product listing should display relevant details such as name, description, price, nutritional information, and availability.
- **Shopping Cart and Checkout:**

Users can add desired products to their shopping cart for purchase. The shopping cart should show a summary of selected items, quantities, and total cost. Users can modify quantities, remove items.

3.2 Architecture/Framework



4 Code

```
// Your web app's Firebase configuration
const firebaseConfig = {
  apiKey: "AIzaSyD38V78wqg-wBh-f55-c51agw030Y78wrd",
  authDomain: "myproject-98888.firebaseio.com",
  projectId: "myproject-98888",
  storageBucket: "myproject-98888.appspot.com",
  messagingSenderId: "9242913256954",
  appId: "1:9242913256954:web:cb4d988a-f4f8a1e8819a92"
};

// Initialize Firebase
const app = initializeApp(firebaseConfig);
const analytics = getAnalytics(app);
var num=[];
var pri=[];
const db = getDatabase();

var i=0;
var tbody = document.getElementById('tbody1');
var paisa=0;

function AddToTbl(pname,img,price,cid){
  let tr=document.createElement("tr");
  let td1=document.createElement('td');
  let td2=document.createElement('td');
  let td3=document.createElement('td');
  let td4=document.createElement('td');
  let td5=document.createElement('td');
  let br=document.createElement('br');

  console.log(img);

  td1.innerHTML=++i;
  td2.innerHTML=``;
  td3.innerHTML=pname+'<br>'+`<p>+price+`</p>`;
  td4.innerHTML=`<input type="number" value="1" class="quantity" name="quantity" min="1" max="5">`;
  const pais=Number(price.slice(3,20));
  const scriptHTML = `<button class="remove" > </button>`;
  td5.innerHTML=scriptHTML;
  num.push(td4.children[0].value);
  pri.push(pais);

  tr.appendChild(td1);
  tr.appendChild(td2);
  tr.appendChild(td3);
  tr.appendChild(td4);
  tr.appendChild(td5);
```

```
tbody.appendChild(trow);
tbody.appendChild(br);
moveToatals();

const quan=document.querySelectorAll(".quantity");
quan.forEach(function(btn){
  btn.addEventListener("click", function(event){
    const quant = event.target.value;
    console.log(quant);
    const srno=event.target.parentElement.parentElement.children[0].textContent;
    const price=event.target.parentElement.parentElement.children[2].children[1].textContent;
    var pisa=Number(price.slice(3,20));
    if(num[srno-1]>quant){
      pisa=quant*pisa;
      pri[srno-1]=pisa;
      num[srno-1]=quant;
      moveToatals();
    }
    else if(num[srno-1]<quant){
      pisa=quant*pisa;
      pri[srno-1]=pisa;
      num[srno-1]=quant;
      moveToatals();
    }
  });
});

const removewe = document.querySelectorAll(".remove");
removewe.forEach(function(btn){
  btn.addEventListener("click", function(event){

    const no=Number(event.target.parentElement.parentElement.parentElement.children[0].textContent);
    remove(ref(db, 'Cart/'+cid[no-1]))
    .then(()=>{

```

```

        window.location.href="cart.html";
        /*var rem=btn.parentElement.parentElement;
        rem.innerHTML="";*/
        moveToatals();
    })
    .catch((error)=>{
        //alert(error);
    });});
});

function AddAllToTbl(array,array2){

    tbody.innerHTML="";
    array.forEach((element)=>{
        AddToTbl(element.name,element.img,element.price,array2);
    });
}

function getAlldata(){
    const dbref = ref(db);
    get(child(dbref,"Cart"))
    .then((snapshot)=>{
        var produ=[];
        snapshot.forEach(childSnapshot => {
            produ.push(childSnapshot.val());
        });
        AddAllToTbl(produ,Object.keys(snapshot.val()));
    });
}

function moveToatals(){
    let sum = 0;
    for (let i = 0; i < pri.length; i++)
        { sum += pri[i];

        console.log(pri);}

const tax= sum*0.01;
const totalMoney=sum+tax;
document.getElementById("cart-total").textContent="Rs. "+totalMoney;
document.getElementById("subtotal").textContent="Rs. "+sum;
document.getElementById("tax").textContent="Rs. "+tax;
};

pay.addEventListener('click',function(event){
    if(document.getElementById("subtotal").textContent != "Rs. 0.00"){
        alert("Your order has been placed successfully!!!!");}
    else{
        alert("Please add something to your cart before placing an order");
    }
});

window.onload=getAlldata();
</script>

</body>
</html>

```

5 Results

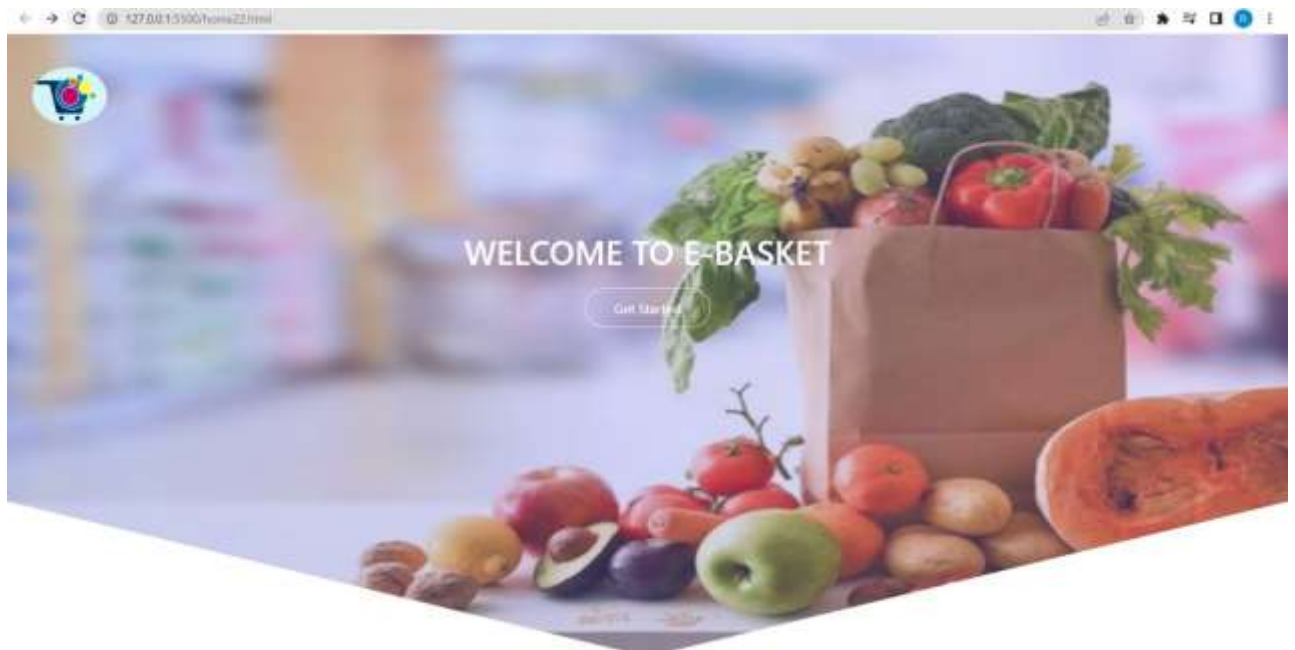


Figure 1: Cover Page

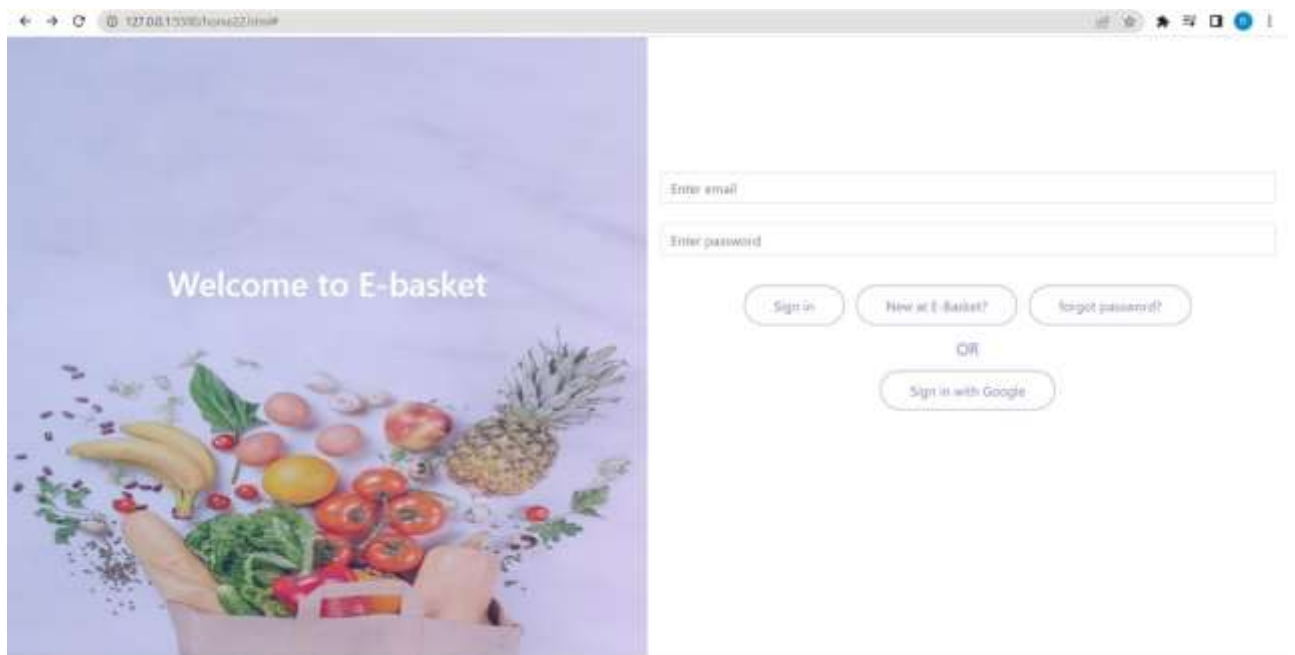


Figure 2: Sign in / Sign up Page

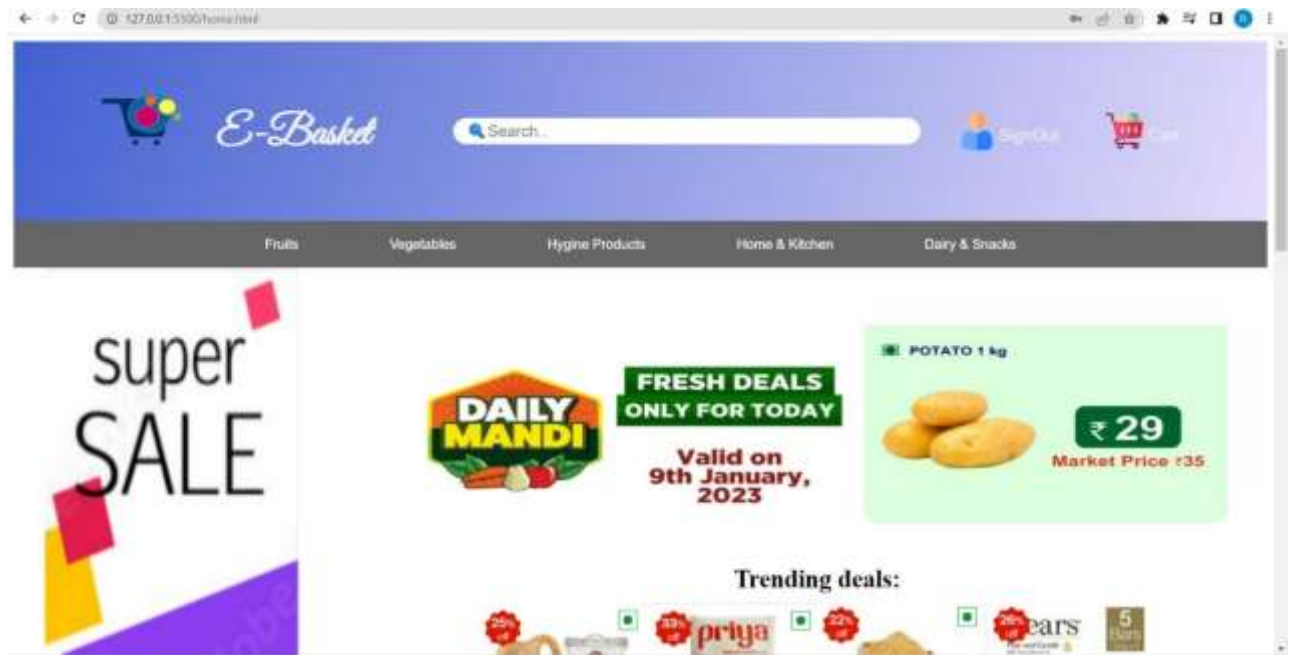


Figure 3: Main user interface

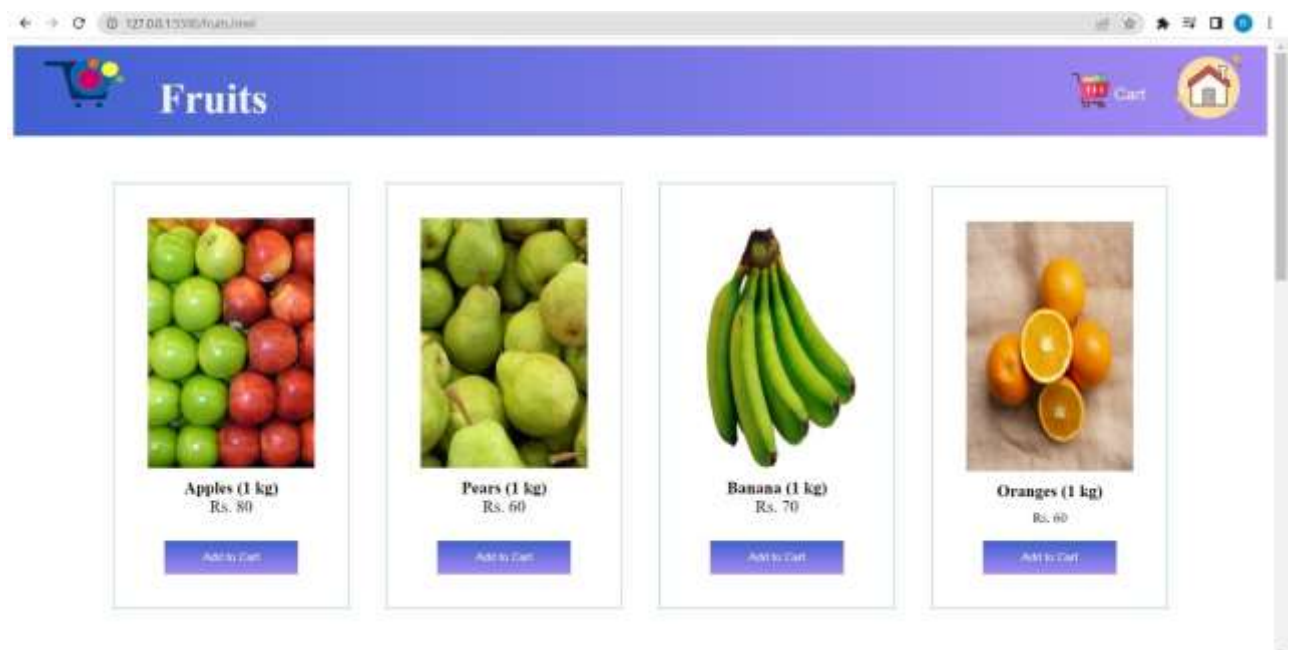


Figure 4: Fruits section



Figure 5: Cart Page

Conclusion

We have successfully built an E-Commerce Website using HTML, CSS, JavaScript, Bootstrap. The website provides a user-friendly interface for customers to browse and order products they want to buy. The application provides a user with hassle free experience of shopping on websites. Overall, this project aims to showcase the power of HTML, CSS, JavaScript, Bootstrap in building efficient and scalable web applications. By creating An E-Commerce website, we hope to provide an enjoyable and seamless shopping experience to our customers.

Overall, this project serves as a solid foundation for building a successful E-Commerce Website, and there is immense potential for further development and improvement in the future. There is a scope for improvement of UI and also new features can be added like User review options and Online Payment Gateway.

6 References

- <https://www.w3schools.com/>
- <https://stackoverflow.com/>
- <https://firebase.google.com/docs?hl=enauthuser=0>