

ACKNOWLEDGEMENT

At the onset, I would like to express deep intense thanks and my sincere gratitude to all the lecturers of **S. K. SOMAIYA OF ARTS, SCIENCE AND COMMERCE, Vidyavihar** for giving me a valuable opportunity to work on this project.

I am extremely grateful and remain indebted to my project guide **Mr. Shrinwas Acharya sir** for being a source of my inspiration and constant support in my work on the project. He has been a constant source of inspiration and motivation for my hard work. His constructive advice & constant motivation have been responsible for the successful completion of the project. I came to know lots of things during this project.

TABLE OF CONTENTS –

Sr.no	Title	Page No
1	INTRODUCTION-SYNOPSIS	04
2	ABSTRACT	05
3	FUTURE SCOPE	06
4	REQUIREMENT SPECIFICATION	07
5	SYSTEM DESIGN DETAILS	08
6	CODE AND RESULTS	10
7	CONCLUSION	36
8	BIBLIOGRAPHY	37

INTRODUCTION

The term e-commerce was coined back in the 1960s, with the rise of electronic commerce – the buying and selling of goods through the transmission of data – which was made possible by the introduction of the electronic data interchange. Fast forward fifty years and e-commerce has changed the way in which society sells goods and services.

E-commerce has become one of the most popular methods of making money online and an attractive opportunity for investors. For those interested in buying an e-commerce business, this article serves to provide an introduction to e-commerce, covering the reasons for its popularity, the main distribution models and a comparison of the major e-commerce platforms available.

‘E-commerce’ and ‘online shopping’ are often used interchangeably but at its core e-commerce is much broader than this – it embodies a concept for doing business online, incorporating a multitude of different services e.g. making online payments, booking flights etc.

Abstract

The thesis aimed to develop an online shop using open source technologies (HTML5,CSS,JavaScript, NPM, React and Firebase) for products where customers will be able to buy products online. Most of the new generation is going lazy and this is where e commerce comes to solve their laziness and get their requirements delivered at home.

Users can log in through their email account , if user don't have account they can create new account and log in with that account . Every time user log in with a unique account,unique Id will be generated and will be given to user.

User can also contact through live support if they have any query.

FUTURE SCOPE

Social networking sites facilitate the purchasing of products from the comfort of our homes, or offices, or anywhere with easy login. Also, e-Commerce sites have made the buying and selling of various products online. But now, it has become more than just selling and buying goods. So, Internet has become the most significant part of e-Commerce for carrying all day-to-day transactions smoothly. With this, India has shown tremendous growth in the eCommerce sector and provides new openings for all job seekers with great opportunities.

With this in mind, more companies work constantly with ingenuity to deliver products to reduce cost, time, and effort. Also, such companies offer customers “Buy Now” options that redirect them to new pages with options like item details, colors, sizes, and shipping addresses. These facilities have allowed the emergence of new technologies such as robots, chat-bots, AI, and others. So, these technicalities support eCommerce businesses to enhance the customer’s shopping experience by eliminating geographical boundaries. For instance, if a person wishes to buy any cloth available in Jaipur, they could easily order it online while sitting in Delhi.

In addition, as internet use has increased, the eCommerce business has also witnessed a sudden flourishing with it. This leads to an understanding that the internet has influenced the broadening of eCommerce businesses to a considerable proportion. So, we may expect the blooming of eCommerce marketing in near future in connection with the rise in internet usage. Also, eCommerce has made the transportation of goods and services between consumers and online shops an effortless task. It even offers customers a tension-free environment to customers and makes their purchases more smooth.

REQUIREMENT SPECIFICATIONS: -

• Hardware Requirements

Processor	1.6 Ghz or faster processor
Ram	1 Gb of Ram
Windows	7 or higher

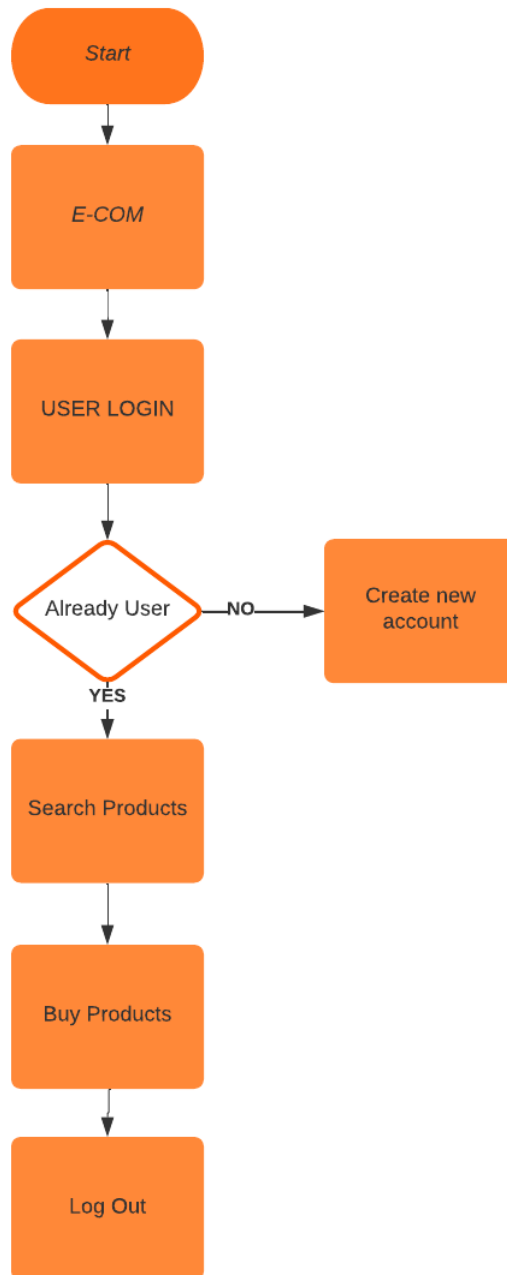
• Software Requirements

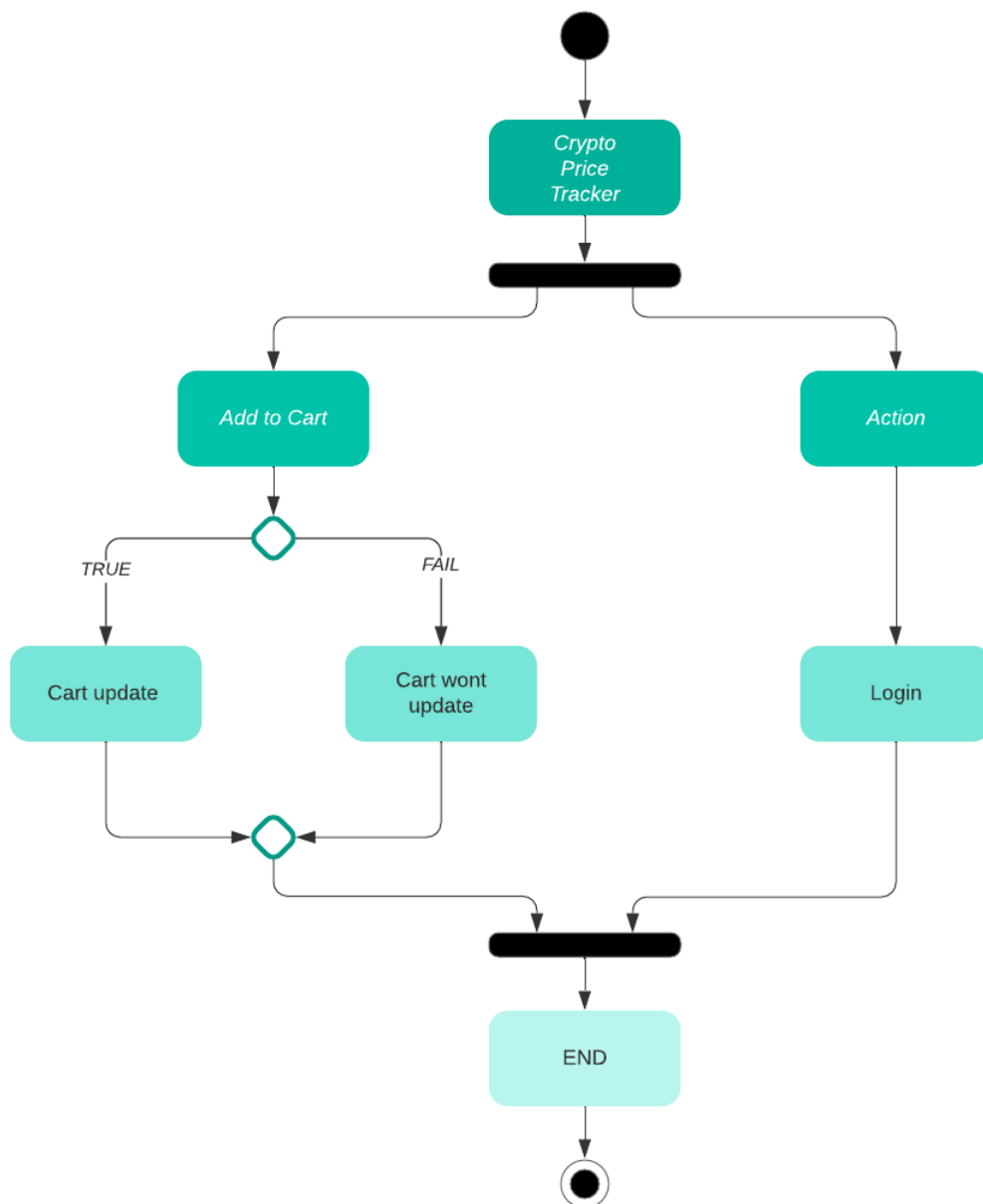
1. **Vs Code** - It is a streamlined code editor with support for development operations like debugging, task running, and version control. It aims to provide just the tools a developer needs for a quick code-build-debug cycle and leaves more complex workflows to fuller featured IDEs, such as Visual Studio IDE.

2. **Firebase** - It is a Google-backed application development software that enables developers to develop iOS, Android and Web apps. Firebase provides tools for tracking analytics, reporting and fixing app crashes, creating marketing and product experiment.

3. **NPM** - it is the default package manager for the JavaScript runtime environment Node.js. It consists of a command line client, also called npm, and an online database of public and paid-for private packages, called the npm registry.

System Design Details





DATABSE DESIGN

Admin Table :

Sr No	Field Name	Data Type	Description	Constraints
1	Email	Varchar	Email address	Not null
2	Password	Varchar	Security Password	Not null

CODE

Public/Index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />

  <meta name="viewport" content="width=device-width, initial-scale=1"
/>
  <meta name="theme-color" content="#000000" />
  <meta name="description" content="E-com created using react" />

<script>
  "use strict";
  ! function () {
    var t = window.drifft = window.drift = window.drifft || [];
    if (!t.init) {
      if (t.invoked) return void(window.console && console.error &&
console.error("Drift snippet included twice."));
      t.invoked = !0, t.methods = ["identify", "config", "track", "reset",
"debug", "show", "ping", "page", "hide",
  "off", "on"
], t.factory = function (e) {
    return function () {
      var r = Array.prototype.slice.call(arguments);
      return r.unshift(e), t.push(r), t
```

```
    }  
  }, t.methods.forEach((function (e) {  
    t[e] = t.factory(e)  
  })), t.load = function (t) {  
    var e = 3e5,  
        r = Math.ceil(new Date / e) * e,  
        i = document.createElement("script");  
    i.type = "text/javascript", i.async = !0, i.crossorigin = "anonymous",  
i.src =  
        "https://js.drifft.com/include/" + r + "/" + t + ".js";  
    var n = document.getElementsByTagName("script")[0];  
    n.parentNode.insertBefore(i, n)  
  }  
}  
  }()  
  }, drift.SNIPPET_VERSION = "0.3.1", drift.load("rhtg357e8riv")  
</script>
```

<title>E-com</title>

</head>

<body>

<noscript>You need to enable JavaScript to run this app.</noscript>

<div id="root"></div>

</body>

</html>

Src/App.js

```
import React, { useEffect } from "react";
import "./App.css";
import { BrowserRouter as Router, Switch, Route } from "react-router-dom";
import Header from "./Header";
import Home from "./Home";
import Checkout from "./Checkout";
import Login from "./Login";
import { auth } from "./Firebase";
import { useStateValue } from "./StateProvider";

function App() {
  const [{ basket }, dispatch] = useStateValue();

  //useEffect
  //code which runs baased on a given condition

  useEffect(() => {
    const unsubscribe = auth.onAuthStateChanged((authUser) => {
      if (authUser) {
        // the user is loggd in..
        dispatch({
          type: "SET_USER",
          user: authUser,
        });
      } else {
        //the user is logged out..
      }
    });
  });
}
```

```

    dispatch({
      type: "SET_USER",
      user: null,
    });
  }
});
return () => {
  //any cleanup opeartion goes here
  unsubscribe();
};
}, []);

```

```

return (
  <Router>
    <Switch>
      {/* Checkout Route */}
      <Route path="/checkout">
        <Header />
        <Checkout />
      </Route>
      {/* Login Route */}
      <Route path="/login">
        <Header />
        <Login />
      </Route>
      {/* Default Route */}
      <Route path="/">

```

```
        <Header />
        <Home />
    </Route>
</Switch>
</Router>
);
}

export default App;
```

Src/Checkout.js

```
import React from "react";
import { useStateValue } from "../StateProvider";
import "../Checkout.css";
import CheckoutProduct from "../CheckoutProduct";
import Subtotal from "../Subtotal";

function Checkout() {
  const [{ basket }] = useStateValue();

  return (
    <div className="checkout container">
      <div className="checkout_left">

        {basket?.length === 0 ? (
          <div>
            <h2>Your Shopping Basket is empty</h2>
            <p>
              You have no items in your basket.To buy one or more items,
              click
              on "Add to Basket" next to to the item.
            </p>
          </div>
        ) : (
          <div>
            <h2>Your Shopping Basket</h2>
            { /* Checkout product */}
```

```
      {basket?.map((item) => (  
        <CheckoutProduct  
          id={item.id}  
          title={item.title}  
          image={item.image}  
          price={item.price}  
          rating={item.rating}  
        />  
      ))}  
    </div>  
  )}  
</div>
```

```
    {basket.length > 0 && (  
      <div className="checkout_right">  
        <Subtotal />  
      </div>  
    )}  
  </div>  
);  
}
```

```
export default Checkout;
```


SRC/Header.js

```
import React from "react";
import "./Header.css";
import { Link } from "react-router-dom";
import SearchIcon from "@material-ui/icons/Search";
import ShoppingBasketIcon from "@material-ui/icons/ShoppingBasket";
import { useStateValue } from "./StateProvider";
import { auth } from "./Firebase";
```

```
function Header() {
  const [{ basket, user }] = useStateValue();

  const login = () => {
    if (user) {
      auth.signOut();
    }
  };

  return (
    <nav className="header">
      { /* Logo */ }
      <Link to="/" style={{ textDecoration: 'none' }}>
        <span className="header_Nav ">E-com</span>
      </Link>
      { /* Search Bar */ }
```

```

<div className="header_search">
  <input type="text" className="header_searchInput" />
  <SearchIcon className="header_searchIcon" />
</div>
{/* 3 Links */}
<div className="header_nav">
  <Link to={!user && "/login"} className="header_link">
    <div onClick={login} className="header_option">
      <span
className="header_optionLineOne">Hello,{user?.email}</span>
      <span className="header_optionLineTwo">
        {user ? "Sign Out" : "Sign In"}
      </span>
    </div>
  </Link>

  <Link to="/checkout" className="header_link">
    <div className="header_optionBasket">
      <ShoppingBasketIcon />
      <span className="header_optionLineTwo
header_basketCount">
        {basket?.length}
      </span>
    </div>
  </Link>
</div>
</nav>
);

```

```
}
```

```
export default Header;
```

Src/Home.js

```
import React from "react";
import Product from "../Product";
import "../Home.css";

function home() {
  return (
    <div className="home">

      <div className="home_row">
        <Product
          id="1"
          title="The $100 Startup: Fire Your Boss, Do What You Love and
Work Better To Live More"
          price={299}
          image="https://www.amazon.in/images/I/51VMSG9740L._SX328_BO1,2
04,203,200_.jpg"
          rating={5}
        />
        <Product
          id="2"
          title="Kasa Smart Light Switch by TP-Link, Single Pole, Needs
Neutral Wire, 2.4Ghz WiFi Light Switch Works with Alexa and Google
Assistant, UL Certified, 1-Pack (HS200), White"
          price={499}
          image="https://images-na.ssl-images-
amazon.com/images/I/71nMzhO05jL._AC_SL1500_.jpg"
          rating={4}
```

```
    />
  </div>
  <div className="home_row">
    <Product
      id="12345"
      title="PRO365 Double Ab Wheel Roller/Carver/Abdominal
Workout Safe"
      price={299}

      image="https://www.amazon.in/images/I/71F0zfxHUwL._SL1500_.jpg"
      rating={3}
    />
    <Product
      id="3"
      title="
      Bedtime Originals Choo Choo Express Plush Elephant -
Humphrey"
      price={699}
      image="https://images-na.ssl-images-amazon.com/images/I/81-
80FPGX0L._AC_SL1500_.jpg"
      rating={4}
    />
    <Product
      id="4"
      title="Fisher-Price Laugh & Learn Smart Stages Piggy Bank"
      price={599}
      image="https://images-na.ssl-images-
amazon.com/images/I/61SqFdmZhYL._AC_SL1500_.jpg"
      rating={4}
```

```
    />
  </div>
  <div className="home_row">
    <Product
      id="5"
      title="CloudWalker 165 cm (65 Inches) 4K Ultra HD Smart LED
Screen 65SUA7 (Black) (2019 Model)"
      price={34999}

      image="https://www.amazon.in/images/I/71TnQAWM2tL._SL1500_.jpg"
      rating={5}
    />
  </div>
</div>
);
}

export default home;
```

Src/Login.js

```
import React, { useState } from "react";
import "./Login.css";
import { Link, useHistory } from "react-router-dom";
import { auth } from "./Firebase";

function Login() {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");
  const history = useHistory();

  //login event
  const login = (event) => {
    event.preventDefault(); //this stops the refresh
    // Login Logic

    auth
      .signInWithEmailAndPassword(email, password)
      .then((auth) => {
        //logged in,redirecting to homepage..
        history.push("/");
      })
      .catch((e) => alert(e.message));
    //pop up alert
  };

  //register event
```

```
const register = (event) => {  
  event.preventDefault(); //this stops the refresh  
  
  auth  
    .createUserWithEmailAndPassword(email, password)  
    .then((auth) => {  
      //Created a user and logged in..  
      history.push("/");  
    })  
    .catch((e) => alert(e.message));  
  //pop up alert  
};  
  
return (  
  <div className="login">  
  
    <div className="login_container">  
      <h1>Sign in</h1>  
      <form action="">  
        <h5>E-mail</h5>  
        <input  
          value={email}  
          onChange={(event) => setEmail(event.target.value)}  
          placeholder="Enter your email"  
          type="email"  
        ></input>
```



```
<h5>Password</h5>
<input
  value={password}
  onChange={(event) => setPassword(event.target.value)}
  placeholder="Enter your password"
  type="password"
></input>

<button onClick={login} type="submit"
className="login_signInButton">
  Sign In
</button>
</form>

<p>
  By continuing, you agree to E-com's Conditions of Use and
  Privacy
  Notice.
</p>
<button onClick={register} className="login_registerButton">
  Create Your E-com Account
</button>
</div>
</div>
);
}

export default Login;
```

Src/Product.js

```
import React from "react";
import "./Product.css";
import { useStateValue } from "../StateProvider";

function Product({ id, title, image, price, rating }) {
  const [{ basket }, dispatch] = useStateValue();

  const addToBasket = () => {
    //adding item to basket
    dispatch({
      type: "ADD_TO_BASKET",
      item: {
        id: id,
        title: title,
        image: image,
        price: price,
        rating: rating,
      },
    });
  };

  return (
    <div className="product">
      <div className="prdouct_info">
        <p>{title}</p>
```

```
<p className="product_price">
  <small>₹</small>
  <strong>{price}</strong>
</p>
<div className="product_rating">
  {Array(rating)
    .fill()
    .map((_) => (
      // eslint-disable-next-line jsx-a11y/accessible-emoji
      <p>★ </p>
    ))}
</div>
</div>
<img src={image} alt="" />
<button onClick={addToBasket}>Add to Basket</button>
</div>
);
}
```

```
export default Product;
```

Src/Subtotal.js

```
import React from "react";
import "./Subtotal.css";
import CurrencyFormat from "react-currency-format";
import { useStateValue } from "../StateProvider";
import { getBasketTotal } from "../reducer";

function Subtotal() {
  // eslint-disable-next-line
  const [{ basket }, dispatch] = useStateValue();

  return (
    <div className="subtotal">
      <CurrencyFormat
        renderText={(value) => (
          <>
            <p>
              Subtotal ({basket.length} items):<strong>{value}</strong>
            </p>
            <small className="subtotal_gift">
              <input type="checkbox" />
              This order contains a gift
            </small>
          </>
        )}
        decimalScale={2}
```

```
    value={getBasketTotal(basket)}
    displayType={"text"}
    thousandSeparator={true}
    prefix={"₹"}
  />
  <button>Proceed to Checkout</button>
</div>
);
}
```

```
export default Subtotal;
```

Src/Index.js

```
import React from "react";
import ReactDOM from "react-dom";
import "./index.css";
import App from "./App";
import * as serviceWorker from "./serviceWorker";
import { StateProvide } from "./StateProvider";
import reducer, { initialState } from "./reducer";
```

```
ReactDOM.render(
  <React.StrictMode>
    <StateProvide initialState={initialState} reducer={reducer}>
      <App />
    </StateProvide>
  </React.StrictMode>,
  document.getElementById("root")
);
```

```
serviceWorker.unregister();
```

Firebase.js

```
import firebase from "firebase";

var firebaseConfig = {
  apiKey: "AlzaSyCucnizNnguROgYc5ABqP0DrGfXJ-OrwoA",
  authDomain: "clone-c88e4.firebaseio.com",
  databaseURL: "https://clone-c88e4.firebaseio.com",
  projectId: "clone-c88e4",
  storageBucket: "clone-c88e4.appspot.com",
  messagingSenderId: "903041574058",
  appId: "1:903041574058:web:cf8abdb60c4c31b7a65cd3",
  measurementId: "G-03JX8J0LVG",
};

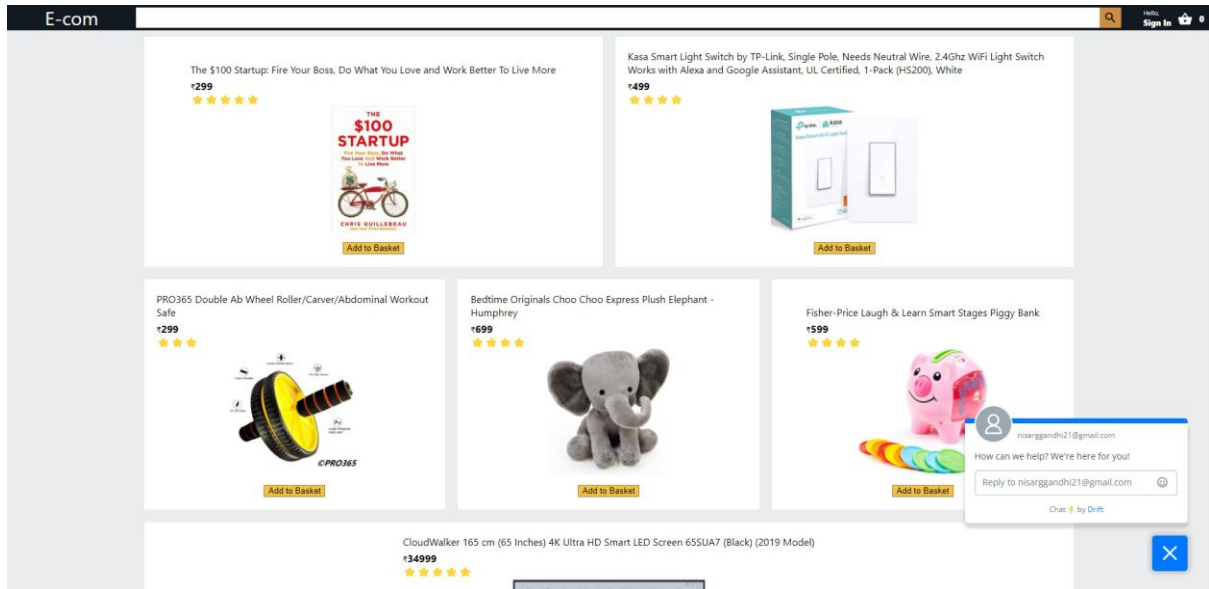
// Initialize Firebase
firebase.initializeApp(firebaseConfig);

const auth = firebase.auth();

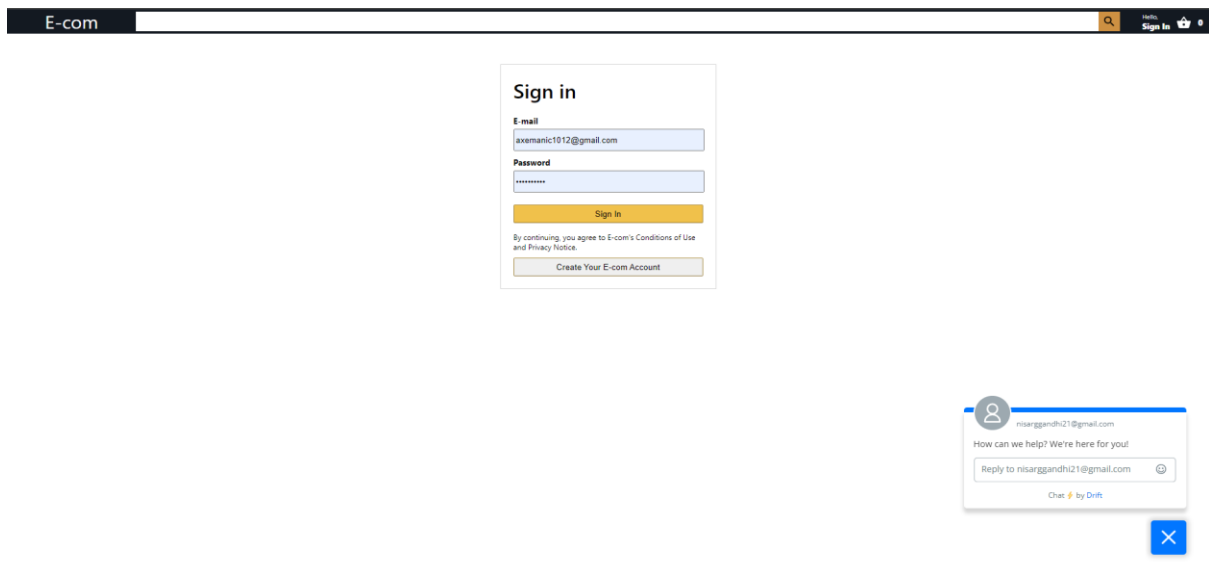
export { auth };
```

WEBSITE SNAPSHOT

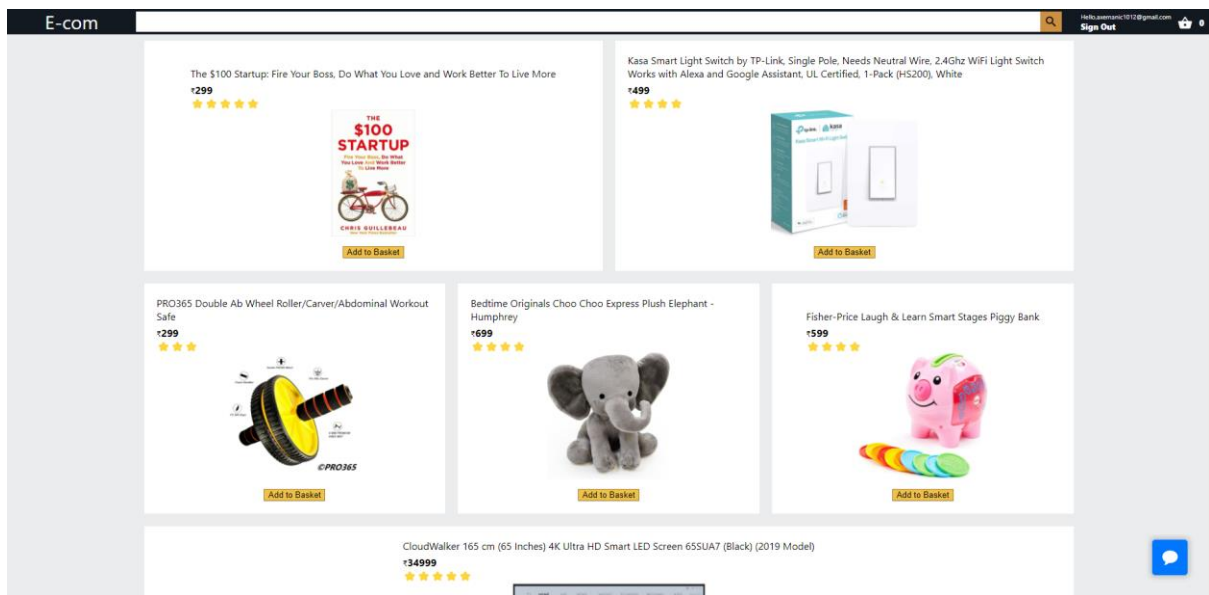
HOMEPAGE



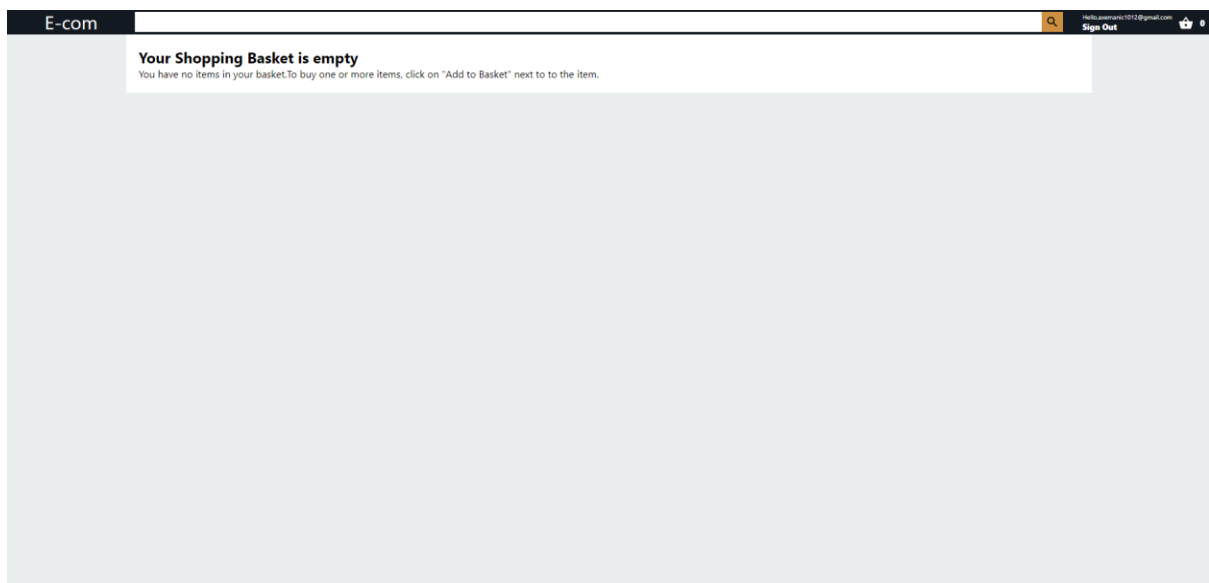
LOGIN PAGE



After Logging in



Empty Cart



Checkout Page


E-com

Search

hello@e-commerce1010@gmail.com
Sign Out

4

Your Shopping Basket




The \$100 Startup: Fire Your Boss, Do What You Love and Work Better To Live More

₹299

★★★★★

Remove from Basket




Kasa Smart Light Switch by TP-Link, Single Pole, Needs Neutral Wire, 2.4Ghz WiFi Light Switch Works with Alexa and Google Assistant, UL Certified, 1-Pack (HS200), White

₹499

★★★★★

Remove from Basket




Bedtime Originals Choo Choo Express Plush Elephant - Humphrey

₹699

★★★★★

Remove from Basket



Fisher-Price Laugh & Learn Smart Stages Piggy Bank

₹599


★★★★★

Remove from Basket

Subtotal (4 items): ₹2,096

☐ This order contains a gift

Proceed to Checkout



CONCLUSION

In this project I tried to implement E-com shopping site. This project is built on online-shopping as everything is going online. Users can buy products and contact using contact form or live chat.

BIBLOGRAPHY

- <https://www.youtube.com/>
- <https://www.firebase.google.com/>
- <https://reactjs.org/>
- <https://app.drift.com/>
- <https://code.visualstudio.com/>
- <https://nodejs.org/en/>
- <https://mui.com/>