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**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](https://feinternational.com/buy-a-website/), 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**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

**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.driftt = window.drift = window.driftt || [];

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.driftt.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\_BO1,204,203,200\_.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 andd 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, { initalState } from “./reducer”;

ReactDOM.render(

<React.StrictMode>

<StateProvide initalState={initalState} reducer={reducer}>

<App />

</StateProvide>

</React.StrictMode>,

document.getElementById(“root”)

);

serviceWorker.unregister();

**Firebase.js**

import firebase from "firebase";

var firebaseConfig = {

apiKey: "AIzaSyCucnizNnguROgYc5ABqP0DrGfXJ-OrwoA",

authDomain: "clone-c88e4.firebaseapp.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**

**Graphical user interface, application, website

Description automatically generated**

**LOGIN PAGE**

**Graphical user interface, application, Word

Description automatically generated**

**After Logging in**

**Graphical user interface, application, website

Description automatically generated**

**Empty Cart**

**Graphical user interface, text, application, email

Description automatically generated**

**Checkout Page**

**Graphical user interface, application

Description automatically generated**

**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.

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