PROJECT

(2019-2020)

E-COMMERCE WEBSITE (FabBasket)

(Web Development)

MID TERM REPORT

Department of Computer Engineering and Applications

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ABSTRACT

E-Commerce Website

- **Fab Basket** is a web application where user will be able to buy products in wholesale quantities.
- From the website we will be able to order multiple items in one go. The interface will be easy to use & website will quickly scale with increasing traffic load.
- All the services like **Hosting, Authentication, Cloud Functions** will be given by Firebase.
- The customer will be able to choose products from long list and order them easily.
- For authentication we will have password-based service, this safeguards that every mail id from which products are purchased is genuine one.
- The database will be **Real-time Database** which is a NoSQL DB offered by firebase.
- After an order is placed, the customer will get an email receipt confirming the placement of his/her order.

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1. <u>INTRODUCTION</u>

1.1 General Introduction

An ecommerce website is a website which allows your business to sell products and services to their online audience.

The Indian e-commerce market is expected to grow to US$ 200 billion by 2026 from US$ 38.5 billion as of 2017.

An E-commerce platform will play an important role to push Indian economy. An e-commerce website gives us a broader audience and hence possibility of better overall sales.

It is functional 24/7 which helps to make more sales. Having an ecommerce platform helps you to increase your conversion rate since people get a chance to immediately buy from you rather than wait to visit the store.

1.2 Area of Computer Science

This project mainly covers the area of Web Development of Computer Science. Through this project, we are trying to climb one step in this vast field of Computer Science.

- Web development is a specialized type of computer programming focused on websites and web applications.

- Web development deals with building technical front-end and/or back-end code that informs site function. Web developers may work exclusively on front-end code, back-end code, or both .

1.3 Hardware and Software Requirements

- **Hardware**

1. Personal computer with minimum 2GB RAM
2. Internet Connection
3. Minimum i3/Amd 3 processor
4. Minimum 20 GB of hard disk.

- **Software**

    1. System Software
        - Operating System (Windows , Linux)

    2. Application Software
        - Bracket (Text Editor), Sublime
        - Server
        a) Node.js Server

    -**Front-end**
        a) HTML
        b) CSS
        c) JavaScript
        d) Bootstrap (Templates from net)

    -**Back-end**
        a) FireBase (Database)

2. <u>PROBLEM DEFINITION</u>

- **<u>Exhaustion</u>**- One might spend whole day and still not get what they want due to which one get exhausted.

- **<u>Expensive</u>**- Shops don't accept online coupons and extra charges may apply for the transportation cost based on size.

- **<u>No 24/7 facility-</u>** Offline shopping is not available all the time.

- **<u>Range of choices not available</u>** – One can't choose from wide variety of options.

- **Distance-problem**-Consumers have to travel a certain distance for the product.

3.OBJECTIVE

The e-commerce industry in India is growing fast, booming, and expanding at a larger rate. The concept of online shopping has attracted the Indian population tremendously. Exposure to Internet has been highly instrumental in the e-commerce success.

The following objectives could be fulfilled by this project:

- From the website we will be able to order multiple items in one go.
- The interface will be easy to use & website will quickly scale with increasing traffic load
- The customer will be able to choose products from long list and order them easily.
- For authentication we will have password-based service, this safeguards that every mail id from which products are purchased is genuine one
- After an order is placed, the customer will get an email receipt confirming the
- placement of his/ her order.
- Every email receipt has unique ID to track each order.

4.ANATOMY OF A DYNAMIC WEBSITE

Front End: A front-end developer is a web developer that codes the front end of a website. The "front-end" of a website refers to the technology involved in the visual rendering of data in the client's web browser. There are many elements that come together to make this happen including, but not necessarily limited to:

- HTML (Hypertext Markup Language)
- CSS (Cascading Style Sheets)
- JavaScript/jQuery (or another client-side API/Framework)
- Bootstrap

HTML: The primary purpose of HTML in a web document is to structure the data into something that the browser can read from and then render the read data into a visual format for a user.

DOM*:* The Document Object Model is the representation of the HTML structure as objects that can be manipulated using client-side scripting languages like CSS or JavaScript.

CSS: Cascading Style Sheets are an extremely powerful and effective tool for adding client-side styling and functionality like image rollovers, once only accomplished using JavaScript.

JavaScript/jQuery/Client-Side API: JavaScript is a client-side scripting language that enables developers to deliver a "rich" user experience. This "rich" experience is based on many elements aside from client-side scripting, such as clear and easy navigation, but the term has become hitched to the concept of dynamic mouse-over effects, smooth transitions, and AJAX interaction. jQuery is a powerful JavaScript API library that allows you to create complex JavaScript effects with very little effort and will be chosen for this article.

Bootstrap: Bootstrap is the most popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website. It is absolutely free to download and use. It is a front-end framework used for easier and faster web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others. It can also use JavaScript plug-ins. It facilitates you to create responsive designs.

Back End: Usually consists of three parts: a server, an application, and a database. If you book a flight or buy concert tickets, you usually open a website and interact with the frontend. Once you've entered that information, the application stores it in a database that was created on a server. For sake of ease, just think about a database as a giant. Excel spreadsheet on your computer, but your computer (server) is stored somewhere in Arizona.

All of that information stays on the server so when you log back into the application to print your tickets, all of the information is still there in your account.

FIREBASE

Firebase Services can be divided into two groups:

1) Real time Database:

The Firebase Real time Database is a cloud-hosted NoSQL database that lets

you store and sync between your users in real-time.

2) Authentication:

Firebase Authentication provides backend services, easy-to-use SDKs, and ready-made UI libraries to authenticate users to your app.

3) Cloud Functions:

 Cloud Functions for Firebase let you automatically run backend code in response to events triggered by Firebase features and HTTPS requests.

4) Cloud Storage:

 Cloud Storage for Firebase is a powerful, simple, and cost-effective object storage service built for Google scale.

5) Hosting

Firebase Hosting provides fast and secure hosting for your web app, static and dynamic content, and micro services.

5. <u>IMPLEMENTATION DETAILS</u>

Our project title is **E-COMMERCE WEBSITE (FabBasket)** and we have designed the user interface of our portal with the help of Html , CSS , javascript and bootstrap in order to make it user-friendly and responsive.

User interface of the website mainly consists of customer login and admin login where customer can login after filling their credentials and admin can handle frontend as well as backend adding or removing products from the database .We have learnt these technologies as it was a part of our course curriculum and some extra knowledge from w3schools and javatpoint, and we have also used it in our full stack project.

Backend mainly consists of database handling of E-COMMERCE WEBSITE and we have used firebase which is an open-source relational database
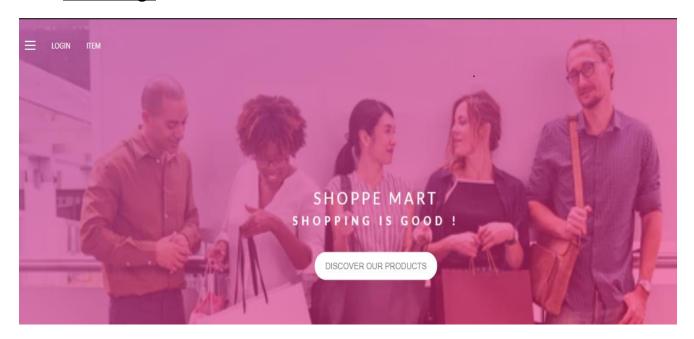
management system for storing products and details and every other detail. Most importantly our project consists of a new technique used which mainly displays next product for customer based on the previous searched product.
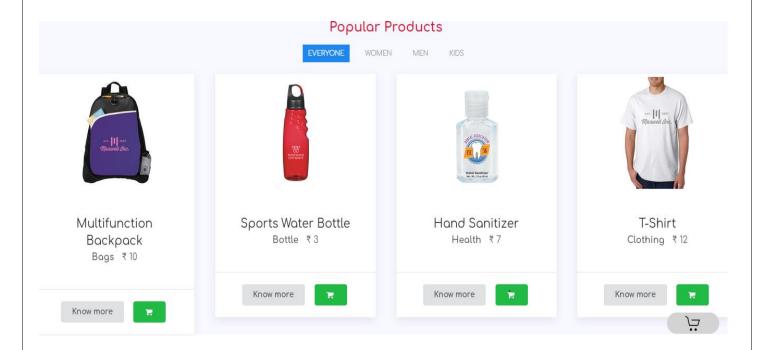
6. PROGRESS

- Front-end: We have designed the user interface of website by using HTML, CSS, javascript and Bootstrap. We have taken help of template for most of the pages and made changes on those pages accordingly.

- Backend: Learning stage still in progress. Taking online tutorials of Nodejs. Database is ready, we have to link the database with our site.

- Database: we have made account on firebase and done some of the work of firebase like
    - Added Firebase to our project
    - Created a Firebase project
    - Registered our project with Firebase
    - Add Firebase SDKs and initialize Firebase

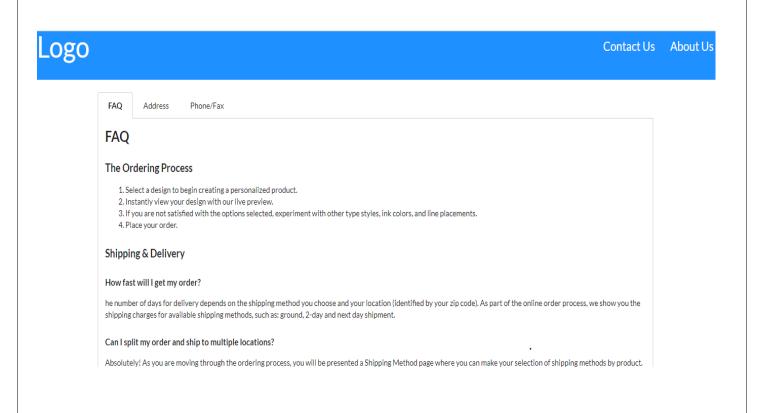- Documentation: Synopsis is submitted.

7.SOME SCREENSHOTS

Home Page

Popular Products

Contact Us

About Us

Logo   Contact Us   About Us

About Us

Walmart Promo Shop is your leading provider of high-quality, customizable promotional products, event giveaways, and commemorative gifts. We are committed to meeting your needs and exceeding your expectations with every purchase. Save on custom merchandise for brand awareness and marketing campaigns, employee recognition initiatives, trade show and event giveaways, client gifts, and more. Honor your special occasions with personalized gifts for your wedding, family reunion, religious retreat, holiday parties, and other friend and family gatherings. With our extensive catalog of affordable merchandise including bags, apparel, drinkware, promotional pens, tech gadgets, and much more, the possibilities are endless.

Design online

Easily design your own unique, custom merchandise displaying your personal message, logo, or artwork. Creating custom products is easy with our user-friendly, online design tool that walks you through a short, step-by-step process of selecting colors, uploading images, and creating your own masterpiece. When you're done designing, you can instantly preview your design online and make adjustments as needed.

Satisfaction guaranteed

A member of our Professional Design Team will review your order for free to ensure the highest quality. We will contact you if needed, and work with you until you are completely pleased with your design. Every order is backed by our 100% satisfaction guarantee, so you can rest

8.REFERENCES

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