

SWABHIMAAN

An Engineering Project in Community Service

Phase – II Report

Submitted by

Team Members List

Sl. No.	Register Number	Name
1.	19BCE10341	ANIMESH CHINCHOLIKAR
2.	19BCE10309	MOHIT GUPTA
3.	19BAI10134	SNEHIL SHARMA
4.	19BAI10009	J HARSHA VARDHAN
5.	19BCE10131	KARAN
6.	19BCE10284	MOULI BHATNAGAR
7.	19BCE10313	UJJWAL
8.	19BME10020	VINAY SUNDA

*in partial fulfillment of the requirements for the degree of
Bachelor of Engineering and Technology*



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Bhopal
Madhya Pradesh

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Bonafide Certificate

Certified that this project report titled “<< **SWABHIMAAN** >>” is the bonafide work of “<< **19BCE10341 Animesh Chincholikar, 19BCE10131 Karan, 19BCE10284 Mouli Bhatnagar, 19BCE10309 Mohit Gupta, 19BCE10313 Ujjwal, 19BCE10341 Animesh Chincholikar, 19BME10020 Vinay Sunda, 19BAI10134 Snehil Sharma, 19BAI10009 Harsha Vardhan Jalluri**” who carried out the project work under my supervision.

This project report (Phase II) is submitted for the Project Viva-Voce examination held on 22.04.2022

Supervisor

Dr. Atul Aman

Comments & Signature (Reviewer 2)

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1. INTRODUCTION

Swabhimaan is a website that helps you to achieve your goals. Our main motive behind making this website is to provide high quality services & innovative solutions for the reliable growth of persons with disabilities. Swabhimaan is a social entrepreneurship initiative by our team members which will give a sense of dignity and self-respect to especially able, orphans, and old aged people by utilizing their special talents in the handicraft field. In this way we are not doing charity for them but providing employment for them so they can live a respectful life in society with pride and self-confidence. Our sole purpose is to generate hope and providing expectations to the less privileged society. Keeping in mind the needs of these people, our team has brought an E-commerce website model which will sell the products they will make. This will not only lead to business but also will keep them super engaged and filled with self-pride and joy.

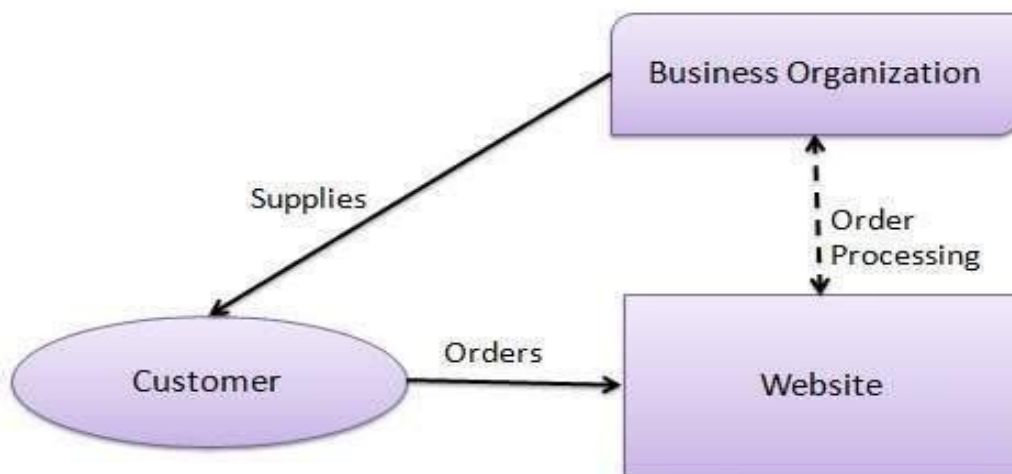
We are focusing especially on the able, orphans and old-aged people because most people do not consider them a part of a healthy society. They treat them differently, thinking that they are a liability, but on the contrary all human beings have something special within themselves and some weaknesses too, and so do especially able people. We as society must help especially able people to focus on their strengths, instead of their weaknesses so that they can enjoy their life like us.

In this project, firstly we find those kinds of people and approach them for the products that we upload on the website. For that we must survey these organizations and hire them for the same.

After that we will train them as professionals by providing them with a friendly environment and develop an e-commerce website for selling products made by these people. For the better sale we will advertise websites commercially and train some of them as salesmen. Despite this we can do street play and advertise products dramatically.

In our project that we are currently working on is a B2C kind of model. We have developed the website in such a way that there would be no third parties involved.

We often observe in our real life that there will be a mediator between the seller and the customer. So, to remove that and to ensure full profit to the sellers I.e., the people with disabilities we have developed this B2C model.



The term business-to-consumer (B2C) refers to the process of selling products and services directly between a business and consumers who are the end-users of its products or services. Most companies that sell directly to consumers can be referred to as B2C companies.

1.1 Motivation

As a disabled person, they usually face problems in selling their own artistic pieces. So, we developed a website to help them sell their products (art - talents). This will not only boost their confidence but also give them an opportunity to stand alone in the business world. These individuals work hard to gain prestige, be admired, and achieve ambitious objectives. The team members supported them to fulfil their need for admiration, enhancing their confidence and belief in their goals. This increase in confidence can make them more successful. One thing that makes power-motivated individuals particularly good leaders is that they find satisfaction from motivating a group to achieve its goals. They understand that

the best approach to accomplishing goals is to motivate a group of people to accomplish tasks rather than do all the work themselves.

1.2. Objective

Our main motive behind making this website is to provide high quality services & innovative solutions for the reliable growth of persons with disabilities.

The main objective of this second review is to add more features to our website and collect more data from the sellers I.e., payment options, delivery options, product descriptions, seller information etc. As explained earlier the goal is to help the disabled people and their livelihood. We just want to make it easy for them by selling them online.

The numbers of the disabled are so large, their problems are so complex, available resources are so scarce and social attitudes are so damaging that it is only legislation which can eventually bring a substantial change in a uniform manner.

Sympathy is the last thing these people need and it will only decrease their confidence. We as society must help especially abled people to focus on their strengths, instead of their weaknesses so that they can enjoy their life like us.

2. Existing Work / Literature Review

For the sake of phase-II review our teammates have visited the nearest ashram where there are people with disabilities having art as their occupation. Our teammates have visited specific locations such as

Manovikas, Ujjain: Special Section for Kids with Special Needs, Manovikas offers a warm, comfortable, and vibrant environment for kids with special needs. With social inclusion as the primary objective, our specially trained teachers and staff members offer a secure and interactive learning environment for the young ones with special needs. They train them to present their artisanship by making small handicrafts like Rakhi, Diya, candles, etc., candles, etc.

Anand Disabled Home, Indore: Anand Dham is a unique home for adults who are intellectually disabled, where they can live with pride and dignity without becoming helpless. It provides a caring home with quality services for the mentally challenged adults and encourages their assisted living with independence and dignity. The initiative aims to provide

the best possible facilities and develop the residents holistically to make them self-reliant, so that they live with pride and dignity. Anand Dham is a unique home for adults who are intellectually disabled, where they can live with pride and dignity without becoming helpless even when their loving and caring parents are no more. Human dignity for all is an inclusive philosophy driving this initiative.

Sharda Bal gram: The Sharda Balgram is an Orphanage/Student Home for the UnderPrivileged Students. 100 Boys and 50 Girls reside here getting formal school education. Generous Donors are requested to help us in a noble cause of serving the nation. Ramakrishna Mission Ashrama, Gwalior looks after the activities. We accept donations in kind and check for nurturing the future dynamic citizens of this great nation. We have a Rakhal Gir Gaushala (35 Cows). The milk produced is only used for feeding the students.

After visiting all three ashrams and disabled homes we started working on our website. We have picked up the items for the project purpose and we applied for them on our website. Those were the photos that are depicted on the website.

Animesh and Snehil have taken care of the front-end part. They have utilized (React for system) which likewise continues as Respond (otherwise called React.js or ReactJS) is a free and open source front-end JavaScript library for building UIs dependent on UI parts. It is kept up with Meta (some time ago Facebook) and a local area of individual engineers and companies. React can be utilized as a base in the improvement of single-page or versatile applications.

Mouli, Mohit and Ujjwal took care of styling the website. They took care of the layout design, content, and the presentation of the website. Harsha has taken care of the business modeling which mentioned earlier that it is a B2C model. It comes to the backend part. Karan and others who contributed for the front-end part have worked on the backend part also.

Since it is not completely done, we have thought of presenting it in our final review. In the backend part, we need to plugin some applications such as a database which is required for every E-commerce website. We also need to install a payment gateway so that a product can be sold to the customer. We thought of adding our enquiry mail and phone number to the website. So, the customers can call us whenever they need help. These mentioned works which were contributed by our team members will be repeated in the INDIVIDUAL CONTRIBUTIONS section which is mentioned in the upcoming of this report.

3. Individual Contribution

In this phase of our project, our group members decided to assign some work to each member in the group. So, all have got their specific role in creating this SWABHIMAAN Project and my role to know that how we can enable the add to cart functionality in our website using HTML, CSS and JavaScript. and product design.

So, I have referred to so many videos on YouTube on this topic and the process I figured out is to set up the project. Setting up the project is the first and foremost step in this process. In this step we set up the project which was created in our PHASE-II of our review. Then I have created individual html pages for each of our products and connect it to with their respective images in the shopping page

After this on every product pages I have given the product title, a little description about the product and add a quantity box to select the amount of items a person wants to purchase, and added two buttons for adding items to the cart and viewing all the items that are added in the cart and below them I have added a text to display the quantity number of the product that is added in our cart. I have used JavaScript, DOM for constructing this part of the website. It was my job to decide how our product will look when their photos are deployed on the website;

This is my Existing work in this phase of our project. All I did was help my teammates in product design, front-end. As it is mentioned above, the part which I did is comparatively small with other's work. But it belongs to the core part of the project and without this we would have lost an easy way in completing our project.

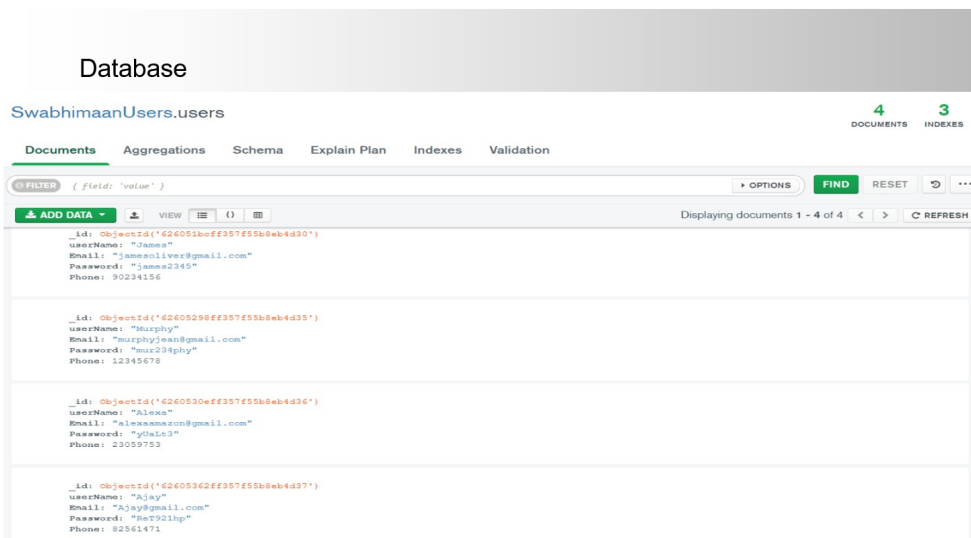
4.Topic of the work (4- 10 Pages)

a) System Design / Architecture:

We have used HTML, CSS for making the frontend part of our project. This method is very general and easy to make for the students and the project builders. So many website creators start most of their front-end part of their projects with HTML because it supports other languages such CSS, PHP, JAVASCRIPT, etc. in creating interactive and responsive pages on the pages.


```

SwabhimaanBackend > templates > views > index.hbs > html > body > section.info_section.layout_padding2 > div.container > div.row.info_form_social_row > div.col
24     rel="stylesheet"
25     />
26     <!-- Custom styles for this template -->
27     <link href="css/style.css" rel="stylesheet" />
28     <!-- responsive style -->
29     <link href="css/responsive.css" rel="stylesheet" />
30 </head>
31
32 <body>
33     <!-- header section strats -->
34     <header class="header_section">
35         <div class="container-fluid">
36             <nav class="navbar navbar-expand-lg custom_nav-container">
37                 <a class="navbar-brand" href="index.hbs">
38                     <span> Swabhimaan </span>
39                 </a>
40                 <div class="" id="">
41                     <div class="custom_menu-btn">
42                         <button onclick="openNav()">
43                             <span class="s-1"> </span>
44                             <span class="s-2"> </span>
45                             <span class="s-3"> </span>
46                         </button>
47                         <div id="myNav" class="overlay">
48                             <div class="overlay-content">
49                                 <a href="index.hbs">Home</a>
50                                 <a href="about.html">About</a>
51                                 <a href="shop.html">Shop</a>
52                                 <a href="blog.html">Blog</a>
53                             </div>
54                         </div>
55                     </div>
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57             </nav>
58         </div>
59     </header>
60
61     <!-- main content -->
62     <div class="main-content">
63         <div class="container">
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160                                                 <p>© 2020 Swabhimaan</p>
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496                                                 <img alt="Image icon" />
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500                                                 <p>Swabhimaan</p>
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514                                                 <p>Swabhimaan</p>
515                                             </div>
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523                                                 <p>Swabhimaan</p>
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537                                                 <p>+91 9606933407</p>
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542                                                 <img alt="Email icon" />
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569                                                 <p>@swabhimaan</p>
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600                                                 <h3>Newsletter</h3>
601                                                 <p>Subscribe to our newsletter</p>
602                                             </div>
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617                                             </div>
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619                                                 <h3>Copyright</h3>
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705                                             <div class="text">
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707                                                 <p>Swabhimaan</p>
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721                                                 <p>Swabhimaan</p>
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730                                                 <p>Swabhimaan</p>
731                                             </div>
732                                         </div>
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736                                 <div class="info_blog3">
737                                     <div class="row">
738                                         <div class="col">
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742                                             <div class="text">
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761                                         <div class="col">
762                                             <div class="icon">
763                                                 <img alt="Phone icon" />
764                                             </div>
765                                             <div class="text">
766                                                 <h3>Phone</h3>
767                                                 <p>+91 9606933407</p>
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769                                         </div>
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771                                             <div class="icon">
772                                                 <img alt="Email icon" />
773                                             </div>
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775                                                 <h3>Email</h3>
776                                                 <p>swabhimaan@gmail.com</p>
777                                             </div>
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779                                         <div class="col">
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781                                                 <img alt="Location pin icon" />
782                                             </div>
783                                             <div class="text">
784                                                 <h3>Address</h3>
785                                                 <p>Swabhimaan, New Delhi</p>
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796                                             </div>
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798                                                 <h3>Instagram</h3>
799                                                 <p>@swabhimaan</p>
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803                                             <div class="icon">
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817                                                 <p>swabhimaan</p>
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824                                     <div class="row">
825                                         <div class="col">
826                                             <div class="icon">
827                                                 <img alt="Email icon" />
828                                             </div>
829                                             <div class="text">
830                                                 <h3>Newsletter</h3>
831                                                 <p>Subscribe to our newsletter</p>
832                                             </div>
833                                         </div>
834                                         <div class="col">
835                                             <div class="form">
836                                                 <input type="text" />
837                                             </div>
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847                                             </div>
848                                             <div class="text">
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850                                                 <p>© 2020 Swabhimaan</p>
851                                             </div>
852                                         </div>
853                                         <div class="col">
854                                             <div class="icon">
855                                                 &lt
```



We have other databases like MySQL which is also a database but we used MongoDB for the following reasons. MongoDB is an attractive way for developers. Its data storage philosophy is simple and straightforward for anyone with editing experience.

MongoDB stores data in collections without a forced schema. This flexible data retention system makes it especially suitable for developers who may not be web experts, but who want to use the site to support the development of their applications.

Compared to MySQL, this flexibility is a huge advantage: To get the most out of a relationship site, you must first understand the general principles, the integrity of the reference, and the construction of the related website.

By being able to store various schema documents, including random data sets, MongoDB provides a flexible developer interface for teams that build applications that do not require all the security features provided by related systems. A common example of such a program is a web application that does not rely on structured schemes; can easily provide random, minimal, or structured data, all from the same MongoDB collection.

MySQL is a common choice for users who have extensive experience in using standard SQL text, designing related website solutions, or repairing or updating existing applications that work with the relationship system. Relationship databases may also be a better choice for

applications that require more complex but robust data structures and website schemes across multiple tables.

We have utilized JavaScript in maintaining the backend part of the project. We all know how java is mostly required as it handles many websites' backend parts. We have used this JavaScript as most of us have ideas about it and we kept on learning about it from past years. Also, it is the most well-known language in creating websites. It is not that tough to learn and moreover we can help ourselves when we come through an error.

JavaScript, commonly abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, next to HTML and CSS. More than 97% of websites that use JavaScript on the client side for web page behavior, usually include third-party libraries. All major web browsers have a JavaScript engine dedicated to code usage on user devices.

JavaScript is advanced, usually the most recent language compliant with the ECMAScript standard. It has flexible typing, prototype-based object shape, and first-level functions. Multi-paradigm, supports event-driven, functional, and essential planning styles. Contains editing areas for text applications, dates, common expressions, standard data structures, and the Document Object Model (DOM).

The ECMAScript standard does not include any input / output (I / O), such as network, repository, or image services. In fact, a web browser or other operating system provides JavaScript APIs for I / O.

JavaScript engines were originally used only in web browsers, but have now become an integral part of various servers and applications. The most popular operating system for this use is Node.js.

Although Java and JavaScript are similar in name, syntax, and general libraries, these two languages are distinct and quite different in structure.

So, we made Node.js running in the background because it sets up a convenient environment to work in because it helps in creating better structures or designs or extensions in the website very easily. We thought of adding React.js to our environment but we changed the backend environment to Node.js

```

SwabhimaanBackend > src > JS app.js > ...
1  const express = require("express");
2  const path = require("path");
3  const app = express();
4  const hbs = require("hbs");
5
6  //methods and all properties of express are in app
7  require("../db/connection");
8  const Register = require("../models/register");
9
10 const port = process.env.PORT || 3000;
11 //this implies wherever we host it, It will get that port number which will be assigned default
12
13 const static_path = path.join(__dirname, "../public");
14 const template_path = path.join(__dirname, "../templates/views");
15 const partials_path = path.join(__dirname, "../templates/partials");
16
17 app.use(express.static(static_path));
18
19 app.use(express.json());
20 app.use(express.urlencoded({ extended: false }));
21
22 app.set("view engine", "hbs");
23 app.set("views", template_path);
24 hbs.registerPartials(partials_path);
25
26 app.get("/", (req, res) => {
27   res.render("index");
28 });
29
30 app.get("/register", (req, res) => {

```

Node.js, an open source, cross platform, JavaScript back-up environment that runs on a V8 engine and uses JavaScript code without a web browser. Node.js allows developers to use JavaScript to write command line tools and server-side scripting - using the server side of the script to produce dynamic web page content before the page is uploaded to a user's web browser. As a result, Node.js stands for the "JavaScript Everywhere" paradigm, which includes web application development with a single programming language, with different server side and client-side languages.

Node.js has an event-driven project that can create asynchronous I / O. These design options aim to improve performance and optimization of web applications with multiple input / output functions, as well as real-time web applications (e.g., real-time communication systems and browser games).

As we have mentioned, for adding the HTML page to the JavaScript we used Express.js. So, we have referred to so many videos on YouTube on how to add our HTML file in our JavaScript zip file using Express. The process we figured out is to set up the project. Setting up the project is the primary step in this process. In this step we set up the project which was created in our PHASE-II of our review. Then we navigated our project into a newly created directory.

After this we have initialized 'NPM.' npm is a package manager for the JavaScript programming language maintained by npm, Inc. npm 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.

Next step is to install the Express package. Express.js, or simply Express, is a back-end web application framework for Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs. It has been called the de facto standard server framework for Node.js. We installed the latest package, which is a reliable and stable version.

Then we made our file run to watch out for any errors and edits. After checking we continued to the next step. Then we revisited the file with our Microsoft Visual Studio code. We then added the path to our file and confirmed if it is correct by using the GET function. When a request is made to the server, an index.html file is served. Then we created a new index.html file and opened it with our code editor I.e., Microsoft Visual Studio code. A code message will be displayed to depict that it is working. Then we need to save our changes and re-run the server again. With the server running we visit the website we created for our project in a web browser.

This is a small part of the project yet an efficient way to attach our HTML file to JavaScript. After running the server, we need to render the HTML in Express. Then by using the template engine, we rendered the HTML page.



The HTML picture of the website wallpaper

b) Working Principle:

Suppose one of your companions posted a photo on Facebook. Presently you proceed to like the picture and afterward you begin looking at the remarks as well. Presently while you are perusing over remarks you see that the preferences count has expanded by 100, since you preferred the image, even without reloading the page. This mystical count change is a direct result of Node.js Respond is a decisive, proficient, and adaptable JavaScript library for building UIs. It is 'V' in MVC. Node.js is an open-source, part-based back-end library dependable just for the view layer of the application.


Facebook Respond utilizes a decisive worldview that makes it more straightforward to reason about your application and expects to be both productive and adaptable. It plans basic perspectives for each state in your application, and react will productively refresh and deliver the perfect part when your information changes. The explanatory view makes your code more unsurprising and simpler to investigate.

A Node application is made of numerous parts, each liable for delivering a little, reusable piece of HTML (Hypertext Markup language). Parts can be settled inside various parts to permit complex applications to be worked out of basic structure blocks. A part may likewise keep an inside state – for instance, a TabList part might store a variable compared to the at present open tab.

c) Results and Discussion:

LATEST PRODUCTS


New



Flower Candles

Price 150


New



Gift Kit

Price 70


New



Flower Candle (5 pcs.)

Price 135


New



Soap

Price 159


New



Red Flower Candle(3 pcs.)

Price 165


New



Heart shaped Candles

Price 99


New



Aroma oils

Price 199

New





Lip Balm

Price 99


View All Products

CART

ITEM	PRICE	QUANTITY
<div></div> <div>Aroma</div>	19.99	<div>6</div> <div>REMOVE</div>
<div></div> <div>Gift Kit</div>	9.99	<div>1</div> <div>REMOVE</div>
		<div>Total 129.93</div>

PURCHASE

HANDICRAFT SHOP



AROMA OILS

Aroma oils smell great, reduce stress, treat fungal infections, and help you sleep.

Price 199

QUANTITY

[Add To Cart](#)[View To Cart](#)

Items Added In The Cart: 3

Database

SwabhimaanUsers.users

4
DOCUMENTS

3
INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

<div><div>FILTER { field: 'value' }</div><div>ADD DATA VIEW</div></div>	<div>OPTIONS FIND RESET</div> <div>Displaying documents 1 - 4 of 4 REFRESH</div>
<div><div>_id: ObjectId('626051b0ff357f55b8eb4d30')</div><div>userName: "James"</div><div>Email: "jamesoliver@gmail.com"</div><div>Password: "james2345"</div><div>Phone: 90234156</div></div>	
<div><div>_id: ObjectId('62605298ff357f55b8eb4d35')</div><div>userName: "Murphy"</div><div>Email: "murphyjean@gmail.com"</div><div>Password: "mur234phy"</div><div>Phone: 12345678</div></div>	
<div><div>_id: ObjectId('6260530eff357f55b8eb4d36')</div><div>userName: "Alexa"</div><div>Email: "alexaamazon@gmail.com"</div><div>Password: "y0aLc3"</div><div>Phone: 23059753</div></div>	
<div><div>_id: ObjectId('62605362ff357f55b8eb4d37')</div><div>userName: "Ajay"</div><div>Email: "Ajay@gmail.com"</div><div>Password: "Re792lhp"</div><div>Phone: 82561471</div></div>	

This is the database we used for storing the details of the users and it is known as MongoDB which we have mentioned earlier in the system implementation and module explanation. As we zoom in, we can observe the details we have entered for checking purposes.

5.CONCLUSION

Ultimately, we have made our webpage in helping the disabled people and to develop employability in the E-commerce sector. We have made sure there were no errors or bugs in the website. We genuinely believe that our initiative of selling handmade products will not only generate revenue which will be solely dedicated to them but also and most importantly will kindle the flame of SWABHIMAAN among them. We had gone to orphanages, antique homes, NGOs, and we had discovered the abilities of human beings in this field. We made sure that the goods they will make are well worth promoting and we can set an affordable and low-cost price.

We also assigned paintings to them as in line with their abilities, if any of them is not always snug with handicrafts and making different merchandise we can try and accommodate them in a few different works like accounts, monitoring orders, management paintings. In it we said that amazon and flipkart should do the equal process however there is not a specific platform which gives a refuge and assistance to those human beings so we as a group of eight human beings are contributing our facet to offer providers to this community. We have also included our front-end and back-end abilities to contribute to an internet site, an effective way to help all those parents and make their lives less difficult at the same time as additionally making sure of their monetary stability.

Future Scope of the Work

If there is anything we need to do to this website to make it running, we need to add a payment portal and we can also develop a recommendation system to it so that when a user visits the portal he can go through the latest items or the newly added items to the store. Also, if it gets any sponsorship, funds we can place advertisements on the websites they go through in their daily life. We can make this website a good and compatible one for encouraging disable people.

6. WEB REFERENCES

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