BEST SHOP - A WEB-BASED APPLICATION TO COMPARE BEST SHOP ON TRADITIONAL PRODUCTS WEBSITE of A BANGLADESHI E-COMMERCE

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This report is submitted in partial fulfillment of the requirements for the bachelor's degree in Computer Science and Engineering

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DHAKA, BANGLADESH

JANUARY 2023

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APPROVAL

This project is known as **BEST SHOP** - A WEB-BASED COMPARETIVE APPLICATION. BEST SHOP ON TRADITIONAL PRODUCTS BANGLADESHI E-COMMERCE WEBSITE, submitted by Shizila Tanzin Shifa ID No: 191-15-12848, Meharun Nahar Orin ID No: 191-15-12457 and to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on **_the _Month _of _ 2023.**?

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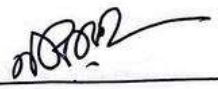

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ACKNOWLEDGEMENT

First of all, we express our heartiest thanks and gratitude to almighty God for his divine blessing which enables us to successfully complete the final year of the project/internship.

Mr. Narayan Ranjan Chakraborty, Associate Professor, Department of CSE, Daffodil International University, Dhaka, is deserving of our heartfelt thanks. Our supervisor's extensive knowledge and keen interest in web development are required to complete this project. His unending patience, scholarly guidance, constant encouragement, constant and energetic supervision, constructive criticism, valuable advice, and reading many inferior drafts, and correcting them at all stages enabled us to complete this project. We'd like to thank everyone at Daffodil International University who took part in this discussion while working on their assignments.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

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ABSTRACT

BEST SHOP - A WEB-BASED APPLICATION TO COMPARE BEST SHOP ON A BANGLADESHI E-COMMERCE'S TRADITIONAL PRODUCTS WEBSITE. It is an online-based web application that allows users to easily compare the prices of various e-commerce websites' products. Traditional products business is concerned with gathering handmade products from all over the country and selling them in retail shops or exporting them to other countries. Traditional products can assist us in determining the current state of business, the challenges and gaps between demand and supply, the source of raw materials and manpower, the potential for employment, and its future prospects. Bangladesh is a developing and overpopulated country, so labor-intensive technology may be more valuable to industries than capital-intensive technology. Bangladesh's traditional product was abandoned after 1970. and quality product. As a result, Bangladesh’s traditional products faced a period of decline.

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CHAPTER 1

Introduction

1.1 Introduction

This project title is BEST SHOP - A WEB-BASED APPLICATION TO COMPARE BEST SHOP ON TRADITIONAL PRODUCTS BANGLADESHI E-COMMERCE WEBSITE. It's an online web application that allows users to easily compare product prices of different e-commerce websites.

Traditional products business is related to accumulating handmade products from over the country and selling them in retail shops or exporting them to another country. Traditional products can help us determine the business's current situation, challenges, gaps between demand and supply, source of raw materials and manpower, the potentiality of employment, and its prospect for the future. Bangladesh is a developing and overpopulated country; thus labor-intensive technology can be more appreciable than capital-intensive technology for the industries. Applying a large number of low-compensated workers to produce handicraft products will benefit us from dual aspects. The first one is a reduction in unemployment thus poverty alleviation and the second one is the earning of a handsome amount of foreign currency. The importance of the Traditional products sector in Bangladesh cannot be traced back to any particular point in time. After 1970, Bangladesh’s traditional product was introduced in the market. And in the 80s the product got market acceptance, and this became its growth period. In the 90s, the traditional products of Bangladesh experienced slow growth, and it is the maturity period of the product. After 2000, the sales of the product decreased because of its old design and poor quality. Moreover, new competitors came with newly designed, innovative, and quality products. As a result, Bangladesh’s traditional products faced a period of decline.

1.2 Motivation

The traditional products business can be developed by ensuring proper use of the following this_

- Emerging demand for traditional products and goods in developed countries such as the USA, UK, Japan, India, Canada, France, Germany, Italy, etc.

- Rising demand and usage of traditional products in the fashion industry.

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- Development of sectors like Retail that offer great requirements of traditional products.
- Developing the domestic and international tourism sectors.
- E-commerce and internet websites are emerged as promissory distribution channels to market and sell craft products.
- Our cultural and jute, nakshi Katha, handmade products good has got value in overseas markets.
- People like diversified designs and handmade items
- Cheap manpower available in our country.
- Potential source of foreign revenue.

1.3 Objectives

People can't compare the various traditional products in one place. On our website, people will be able to compare product prices, product materials, product quality, etc. in one website easily. People will able to know about the condition of products prices details all over the country. At the same time, sellers will aware to do not fraud with people because of people's awareness. Sometimes, all products do not available on any websites. At this time, people will able to search the products all over the country. As a result, the buyer will get his\her products. People buy these kinds of products depending on their budget.

1.4 Expected Outcome

The following are the project's outcomes:

• Buyers will be able to search for those predicted products and find them shortly.

• Buyers will be able to compare prices, products materials, products quality, etc. in a short time.

• Users will be able to see all product categories without any hassle.

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• Customers will be able to inquire about their manufactured products' current price list.

1.5 Report layout

In Chapter 1 We talk about the importance of our project. This section discusses the following topics: introduction, motivation for creating this project, objective, and expected outcome of our project. In Chapter 2, we discussed the reasons for choosing this project, the issues buyers face, and the major challenges to completing this project. In Chapter 3, we described the basic requirements for building this project. First, we analyzed the required requirements, categorizing functional and non-functional requirements, system interface, user interface, communication interface, hardware and software requirements, design requirement language, and Django framework. covered the user interface and administrative interface. In Chapter 4. There are home pages, product sections, and product details in the user interface. There is an admin panel.

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CHAPTER 2

Background

2.1 Introduction

There are some websites that sell traditional products like notebook dairy, nakshi Kantha, ladies' bags, carrying handbags, Mask and home decor items, etc. like arong.com, shatranjicraft.com, karujog.com, oikko.com, daraz.com bd, etc.

They just sell products on their website. Buyers can't compare products and prices like our website. On our website, the buyer will be able to compare products and prices easily which is really needed for a buyer. On the other hand, we know that the more sellers a product goes through before reaching the consumer, the higher the price of the product. If we can buy the product directly from the seller, the price of the product will be lower. Similarly, if we buy a nakshi Kantha from a local dealer, the price of the nakshi Kantha will be higher. If we buy the nakshi Kantha directly from a dealer store listed on our site, the price of the nakshi Kantha will be lower. Most people do not follow this strategy. We thought about bridging the gap between entry-level customers and resellers and finally came up with the idea of Best Shop focusing on providing an online platform that allows our customers to communicate directly with dealers in cities. Our website will be as user-friendly as possible. People must be aware of potential scams.

2.2 Relevant work

There are lots of traditional product online selling centers in our country. Some online sellers sell various kinds of products. These selling centers sell notebook dairy, nakshi Kantha, ladies' bags, carrying handbags, Mask and home decor items, etc. like arong.com, shatranjicraft.com, karujog.com, oikko.com, daraz.com bd, etc. and the price of similar products is different in different platform. So, it's almost impossible for everyone to know about so many online products sell centers that will provide less price than other platforms So, we are ensuring low prices and the best service through our project "BEST SHOP."

2.3 Scope of the problem

Bangladesh is in the process of developing. The majority of people are unable to conduct any type of research. They are unable to find the best traditional products within their budget. Normally they go to market and look for a few traditional products which are available in their

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area. Sellars help them to know about the specifications of traditional products. In this case, some dishonest sellers give wrong information for selling their traditional products Even the dealers charge higher prices for the products which are not fair. If we have an e-commerce company, Traditional products can be easily purchased at home by people from all over the country. To summarize, the new e-commerce organization has both advantages and disadvantages. E-commerce is now used in all developed countries around the world. So, instead of focusing on the difficulties, we should consider the country's development and create such a platform.

2.5 Challenges

- The biggest challenge is enabling our customers to use the website.
- Reaching the customers at the root level and getting their information is a big challenge.
- Making the website more user-friendly is a major undertaking.
- There is no way to search for products with a budget. We will add a feature where buyers will search products by their budget and they will able to see all products near their budget in the future. Then they will able to compare c easily.
- In the future, buyers will able to pre-order the upcoming traditional products for any kind of brand.
- More new items will be added to our website in the future.

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CHAPTER 3

Requirement Specification

3.1 Requirement collection and analysis

There are numerous types of Software Requirement Specification in the project we created (SRS). The best requirement for software is the ability to interact with users. We covered a wide range of requirements based on user requests. We gradually gathered user requirements. We also collected and implemented data from various sources.

The requirement data that we collect is thoroughly examined. We construct our project based on the data, requirements, and so on.

3.2 Functional Basic requirement

• Selected products are automatically added to the cart.

• Complete product details, quantity, and cost are shown; and

• Users may submit a product rating with a comment.

• Every product now usually includes nutrition information.

• Quicker response.

• Customer protection as well

3.3 Overarching Description

The capabilities and their functions will be defined in this section, as well as the drawbacks of the initiative's specialized prerequisites.

3.3.1 System Interaction

The program is linked to the Python Django Framework. All complex possibilities, as in deleting and adding to the cart, are under the user's control. After logging into the admin panel, the admin can control inserting, modifying, and everything else**.**

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3.3.2 Interaction with Users

We primarily focused on traditional products. The structure is the following simple to put to use is to create with. All customers have the same login structure. Everyone who signs in will be presented with a window in which they can view.

3.3.3 Hardware Interconnection

Our project is a web-based application. As a result, this system does not require any special types of equipment interface. If something needs to be added later, we will do so now.

3.3.4 Interface for Communication

The Transmission Control Protocol (TCP/IP) is the standard method for data transmission between the customer and the network PC**.**

3.3.5 Memory Restrictions

There are no strict memory requirements for this software. During the planning process, the venture partnership, quality agreement, research schedule, and recording plan were completed.

3.3.6 Procedures

The main activity is to enter information into the structure, save it in the information archive, refresh, look at, and print the data output away.

3.3.7 Modern Operating System:

Windows 7 or 10

Mac OS X 10.11 or higher, 64-bit

Linux: RHEL 6/7, 64-bit (almost all libraries also work in Ubuntu)

x86 64-bit CPU (Intel / AMD architecture)

4 GB RAM

5 GB free disk space

Python version 3.8+

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3.4 Modeling of Business Processes

We will reconsider our commercial venture later. That is our goal. To express excellent programming, it is the design structure that resembles a law and employs a specific commodity, time period, and schedule. This object is constructed with the help of a well-known coordinated structure.

3.4.1 Hardware Requirements

Users need at least some computer hardware to interact with the Internet to operate or visit this site. We are currently working on the need for this website.

Table 3.4.1: Hardware Requirement

Hardware	Hardware specification
Motherboard	Any types
RAM	1GB (Minimum)
Graphics card	Any
Hard-Disk	Not required
Monitor	Any Type of Monitor (digital)
Mouse	Any
Keyboard	Any
Casing	ATX / MICRO ATX

3.4.2 Software Requirement

The expanded site gets different forms of programming. The minimum software

requirements are given below:

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Table 3.4.2: Software Requirement

Software	Usage of Software
Windows Operating System	Control all computer hardware and software
Visual Studio Code	One of the best and most popular code editors for writing code

3.5 Requirement of development

1. Django

3.5.1 Django

The most well-known and widely used Python framework is Django. Django is a python-based open-source web framework designed by experienced programmers to handle web creation problems so that people can focus on writing without hesitation because it has less code, low coupling, and rapid development. Django, as a high-level language, gives your website more versatility, security, scalability, and maintainability.

3.5.2 Advantage Django

When it comes to development with Django, you have the following advantage:

- Django was created in such a way that it enables developers to create faster apps. Django helps to make it more efficient and effective from production to production. As a result, It is an excellent solution for anyone worried about the end of the world.
- Django provides the highest level of website security. Django ensured that engineers made no security-related mistakes. One of the most common errors is SOL injection, application fraud across the site, and clicking there. The user's key authentication system is critical for effectively managing usernames and passwords.
- The Django operating system comes with a plethora of additional features to assist the user. For example, Site maps, authentication, content management, and RSS feeds. These features aid in the completion of the web development process.
- With the increased demand for roads, the benefits of the Django framework are clear. As a result, this method is used by the busiest sites to meet traffic quickly demands.

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3.5.3 Software Requirements

Software Applications the Microsoft The Microsoft Windows operating system (Any Version) Controls everything of a computer's hardware and software. Visual Studio Code is a programming language. One of the best and most popular widely used code editors for writing code.

3.6 Design Requirement

First and foremost, it emphasizes overall design and activities such as the knowledge base plan, programming setup, computer designs, and other documents. There are numerous configurations available to build the entire thing, including Data Flow Diagram (DFD), Flow chart calculation, Use case, and others. We require these items in order to prepare the design. with some basic design abilities.

1. HTML

2. CSS3

3. Bootstrap

4. JavaScript

5. Python

3.6.1 Hypertext Markup Language (HTML)

HTML is required for the creation of a web page. It is the most fundamental markup language. It represents a web page layout and also provides a simple document designed to be displayed in a web browser. The browser read an HTML document from its local storage and renders it in order to convert multiple web pages. All of this is being done semantically by the browser.

3.6.2 Cascading Style Sheet (CSS)

CSS breathes life into HTML documents. CSS adds color, space, shape, position, and other elements to the HTML structure to make it come to life. CSS can be used on multiple pages at once.

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3.6.3 JavaScript

JavaScript is a scripting language for web pages. It is a compiled programming language that is lightweight, single-threaded, dynamic, and interpreted (just in time). In September 1995, Brendan Eich created JavaScript. JavaScript ES6 is the most recent version (ECMA Script)

3.6.4 python

Python is a dynamic, high-level, free open source, and interpreted programming language. It supports object-oriented programming as well as procedural-oriented programming. In Python, we don't need to declare the type of variable because it is a dynamically typed language.

3.6.5 Bootstrap

Bootstrap is the most popular framework for creating a responsive design for a website. Bootstrap is a free and open-source CSS framework that allows quick and simple front-end development. Bootstrap is primarily consisting of HTML and CSS design templates. Typography, indexes, structures, paths, tables, models, images, and other elements are also included. Bootstrap is a CSS framework with pre-defined classes that creates it simple to use. Overall, Bootstrap enables the creation of responsive websites.

3.6 User Flow chart

The user flowchart describes the user functional. As a result, user can use the functional of this website and get those products from the website easily. As a result first user go to our website application when user start to use our website first they register and then they can enter our website when user enter our website they saw many category product in a reasonable price. They find the product what they like in a search option what they want search the product and view the product, product price and product details. User compare our products with other products and then if they like the product they buy the product in our website in a very easy way.

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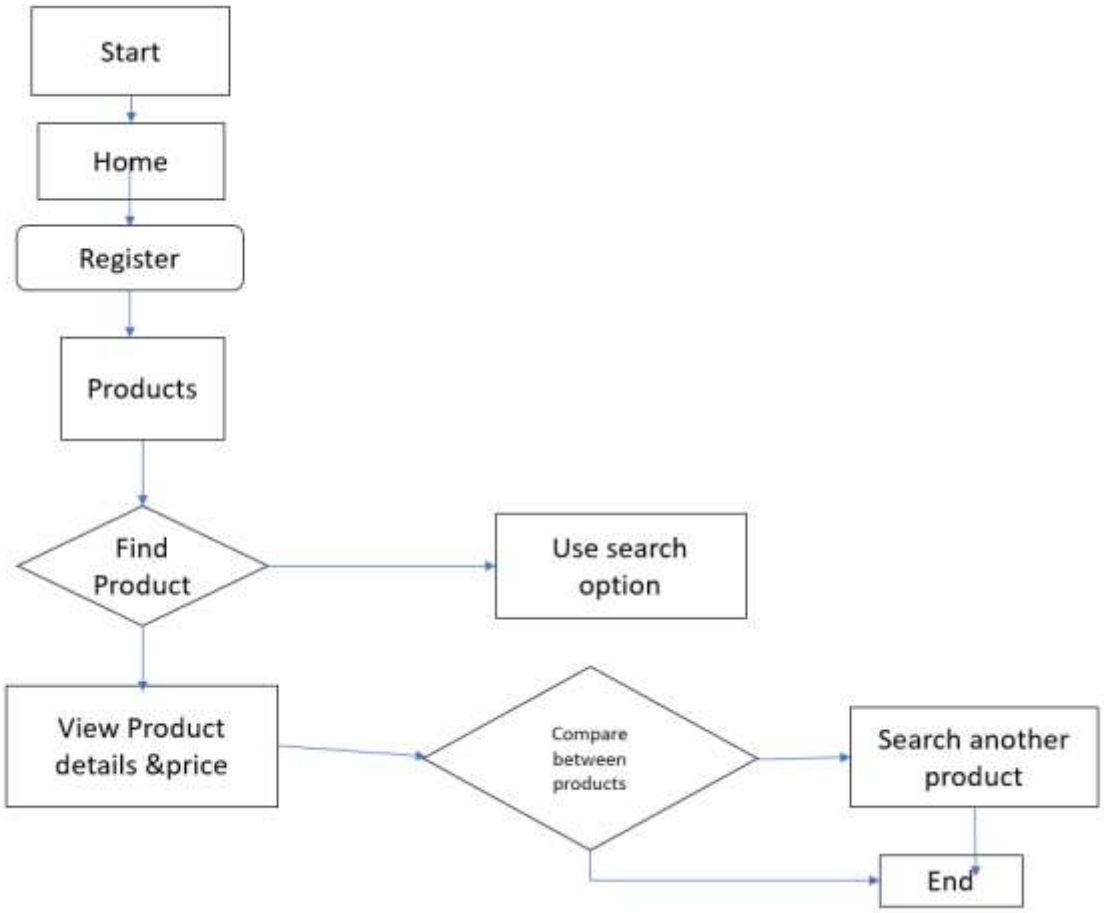

Figure3.1: User Flowchart

3.8 Use Case Diagram

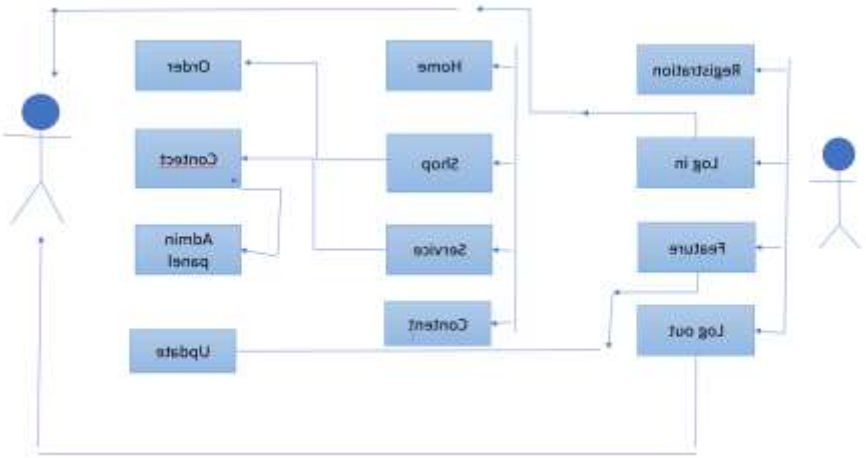

Figure3.2: Use case diagram

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3.9 Admin Flow chart

Admin flow diagram represents the functionalities an admin can perform or take action in this site and the database file. By providing valid cardinalities admin can enter the admin panel and can monitor the main site.

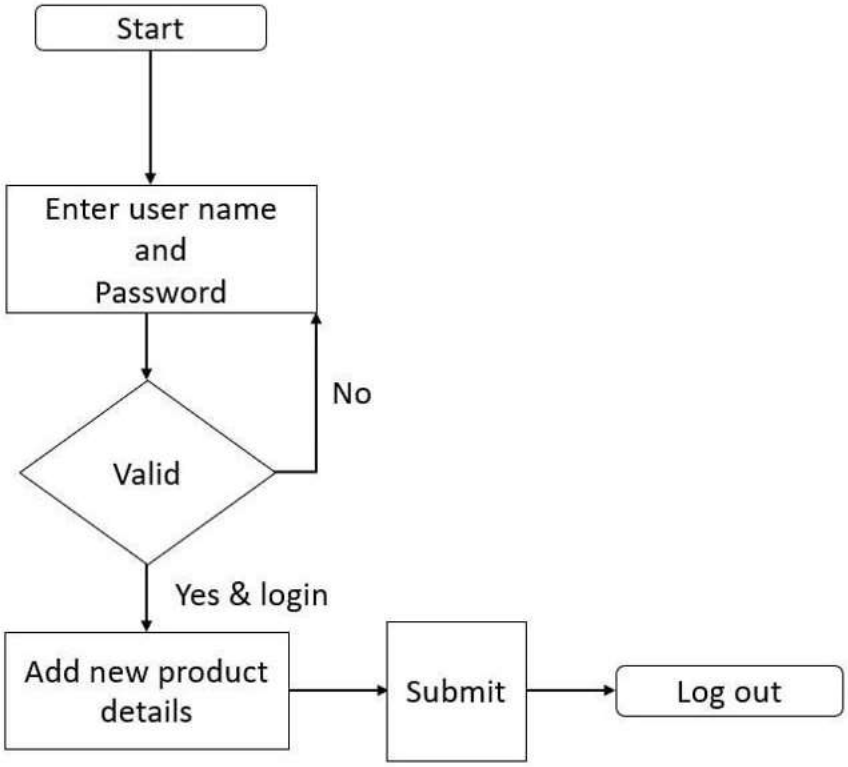

Figure 3.3: Admin Flow chart and diagram

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CHAPTER 4

Specification and Design

4.1 Home Page

This website homepage is the main page of a website that is often the first page a user sees when they visit the site. It typically provides an overview of the site's content and purpose. The homepage may also feature important information such as exclusive something, and upcoming events. The design and layout of a homepage can vary widely depending on the purpose and audience of the site.

In the Home page describes our project. In our product page we saw many types of products. We have many categories products like home decoration, mask, nokshi Katha, notebook, carrying bag, ladies bag etc. In this category you saw different varieties products what you want we try our best to put different categories various product in our website. I hope people find their dream product in a reasonable price and find a good quality product in our website.

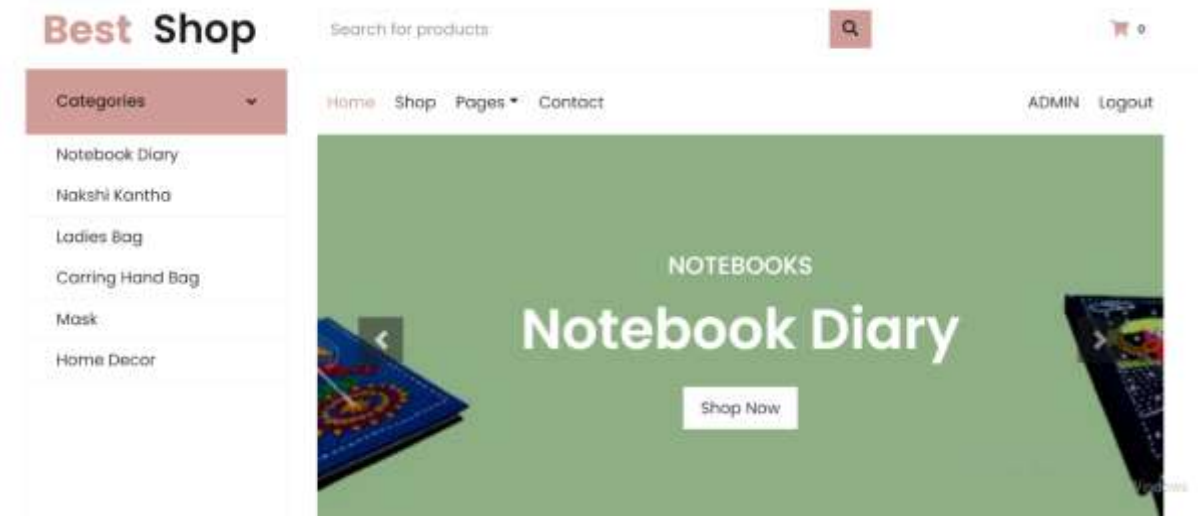

Figure 4.1: Home Page

4.1.1 Bottom section of the home page

The bottom section of our website shares the company's name from whom we collect products, features, configuration, specifications, price, and others information if needed. Here we also share the products brand name.

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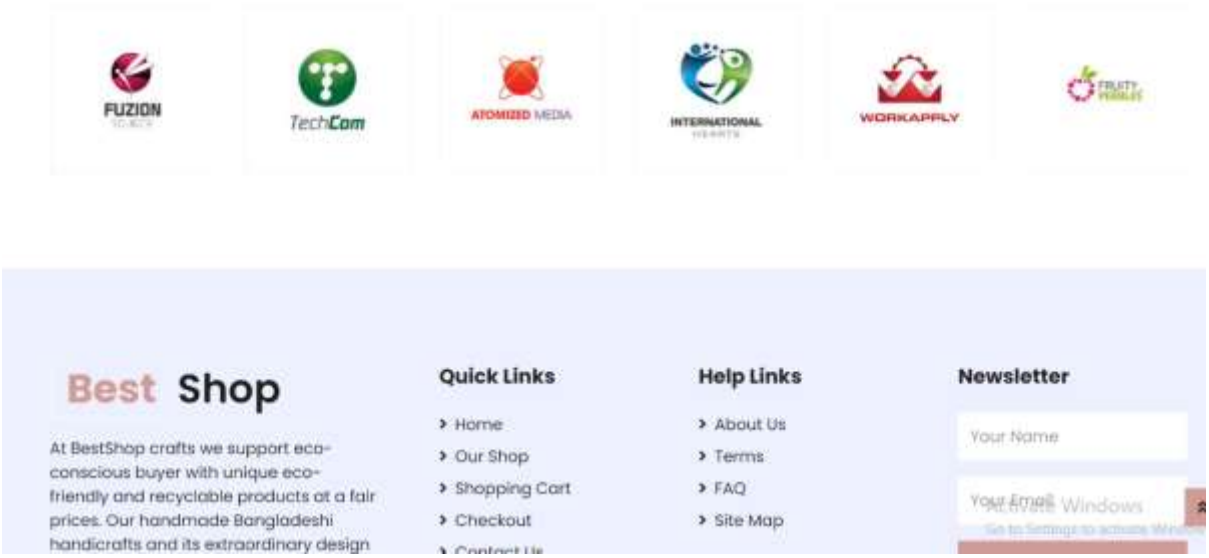

Figure4.1.1 Bottom section of the home page

4.2 Products Page

The product section of any site describes the products or services they provide. From this part, the user can easily know which type of products are served.

The purpose of the product section on our website is to share and serves product to our honorable customer. In this section, we added a few numbers of products and their details.

From our website product section, users can find our available products and if they user wants, user can check their desired product and can get the feature details of products.

Figure 4.2: Products page

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4.2.1 Product information and a price list

In Product details explained about product types and detailed about this product like products name, and specification. And users can know detail about a product. In our product page we saw many types of products. We have many categories products like home decoration, mask, nokshi Katha, notebook, carrying bag, ladies bag etc. In this category you saw different varieties products what you want we try our best to put different categories various product in our website. I hope people find their dream product in a reasonable price and find a good quality product in our website.

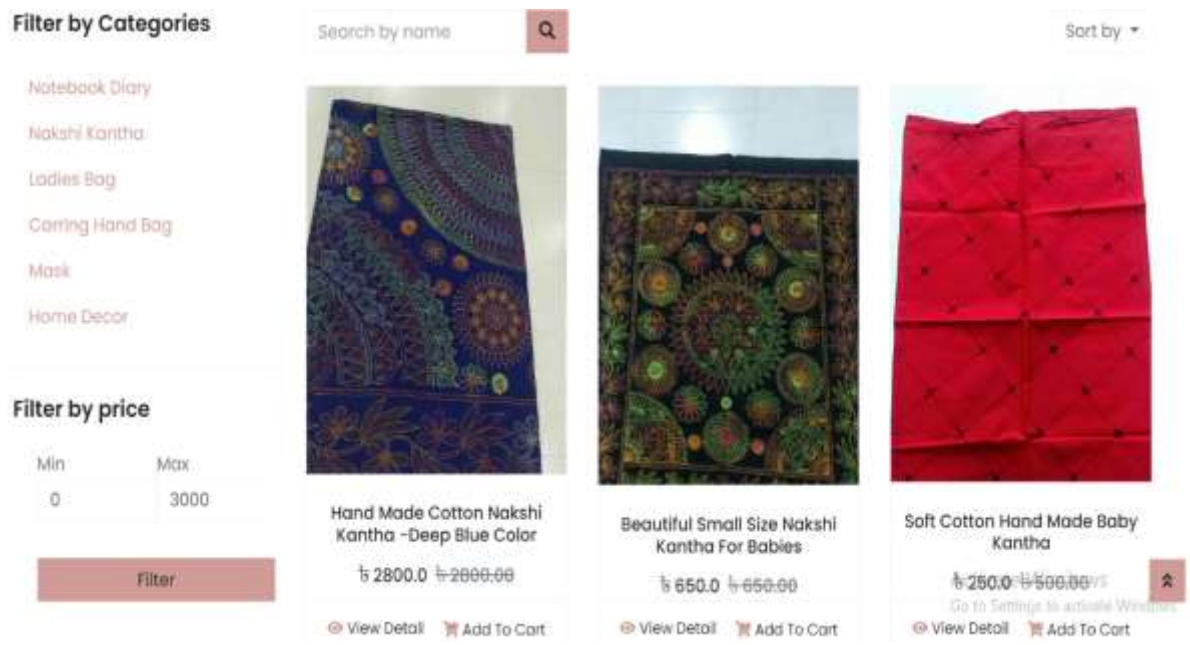

Figure 4.3: product information and a price list

4.2.2 Select product

In select product when user like our product and then they buy the product what they do first they enter the product what they want and then select the product. In figure 4.4 we saw a product Nakshi Design handicraft multi-colour fashionable gorgeous handbag user select this product they also saw the product price and saw the product details. Then you select how

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manyproducts you need you add the number of products you need then you click the add to c

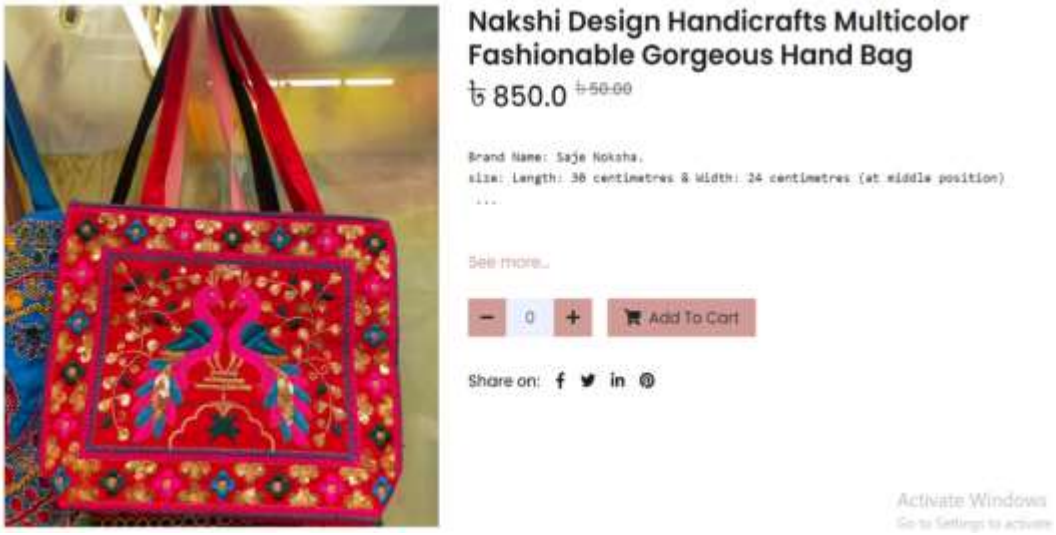

Figure 4.4 select product

4.2.3 Product Description

In this product the brand name is Saje Nakshi they made the product. This product length 30cm and width 24cm. This product material is cottons fabric. Closure type is zipper. You can use it versatile style. It has attractive design and it's very soft and high quality.

Figure 4.5 product description

4.2.4 Payment Option

When the user chose any product user can see the unique price per product and can increase or decrease that product according to the increase or decrease product user can see the total price

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also the user can remove the products if the user cannot buy the product. In the cart summary option users can see the subtotal price and shipping price and they can proceed to check out.

Figure 4.5.1: payment option

4.2.5 Place Order

We saw the payment option for how users buy the product they need.It was a very easy way to buy a product in our website first select the product and click add to the chart then you saw the page where you enter your first name and last name, your email, mobile number, address, city and zip code. Then saw the total amount of the product with shipping then you enter the payment option how you pay for the product. There are three options for payment bikash card(any card ar accepted) and cash on delivery. When you finish the payment process then click the place order option and end the process and then we confirm your order.

Figure 4.5.2: place order

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4.3 Comparison

Selected product when user like our product and then they buy the product what they do first they enter the product what they want and then select the product. In figure 4.5 we saw a product double size Nakshi kantha use as quilt or bed cover user select this product they also saw the product price and saw the product details. Then you select how many products you need you add the number of products you need then you click the add to cart.

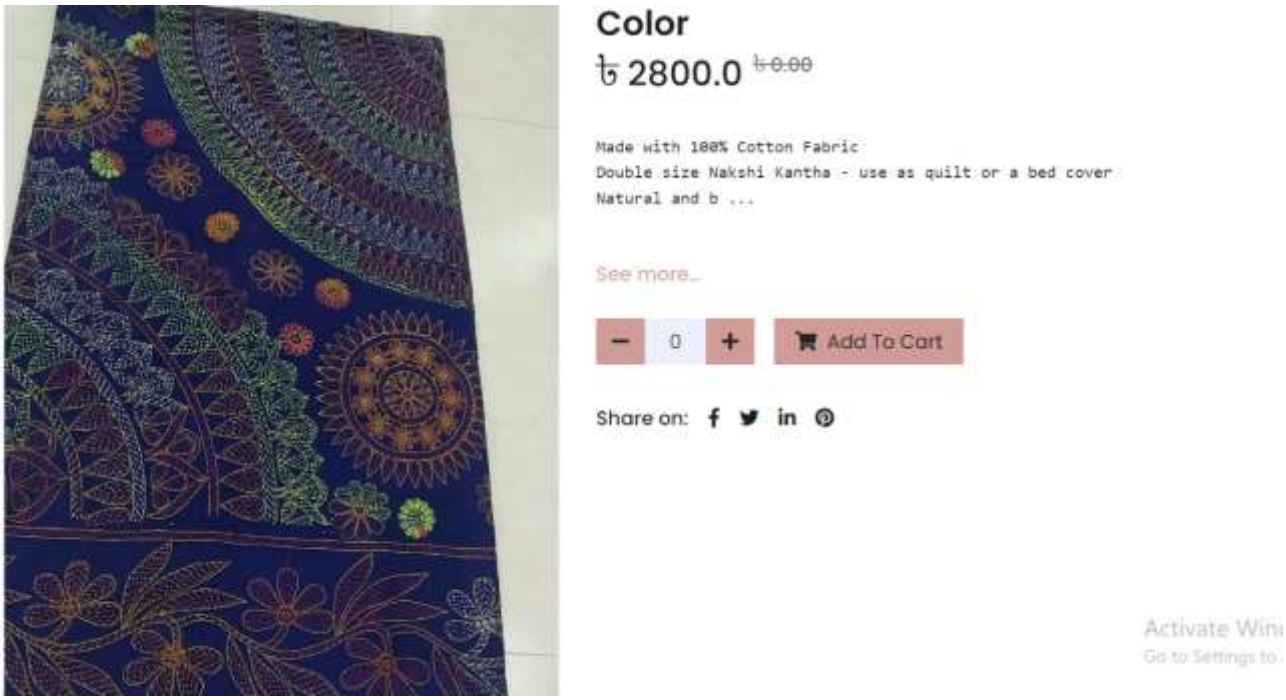

Figure 4.6: Comparison

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4.4 Product Description

In this product description we saw this product made with 100% cotton fabric. Double size Nakshi katha we use as quilt or a bad cover. This product have natural and beautiful design, complete handi crafted design. This katha measurements is length 102" inches and width 90" inches. Nakshi katha is completely hand stitched. It made by Village Artisan in Bangladesh. Wash care: only dry clean

Figure 4.7: product description

4.4.1 Search Option

(Suggestion depending on search letter) In our product page we can search many types of products. We have many categories products like home decoration, mask, nokshi Katha, notebook, carrying bag, ladies bag etc. In this category you saw different varieties products what you want we try our best to put different categories various product in our website. I hope people find their dream product in a reasonable price and find a good quality product in this search page.

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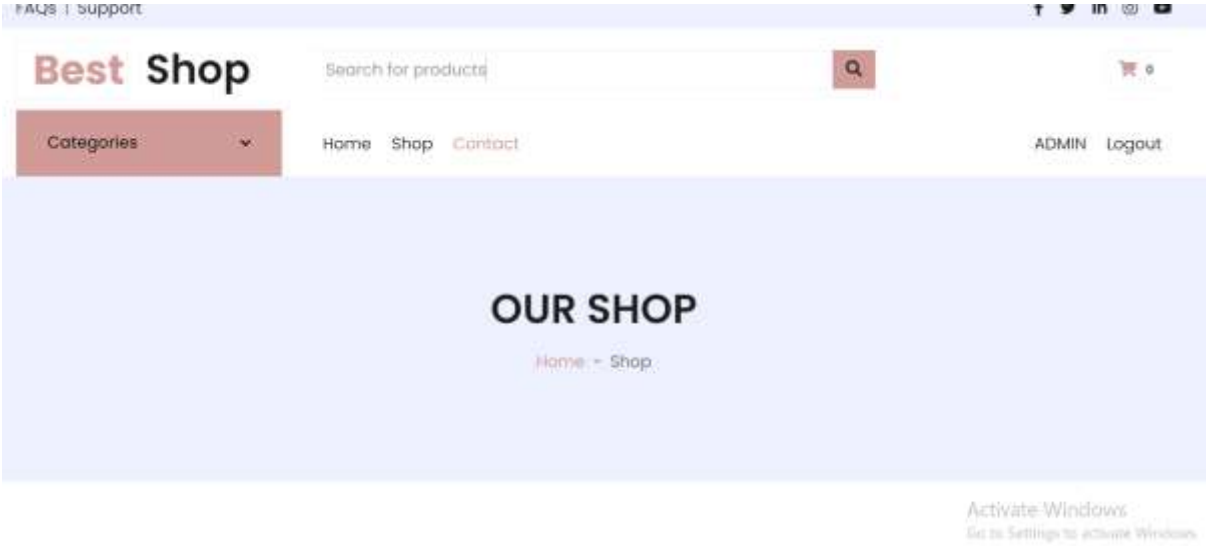

Figure 4.8: search option

4.4.2 Search Option

(Searching result) In searching option you search what you need in our website we have six category products. In these six categories you have different type of various products. When you search the product, you need you saw the product, product price and product details. You are only search what products in available in our web because we have only gave this search option what is available here.

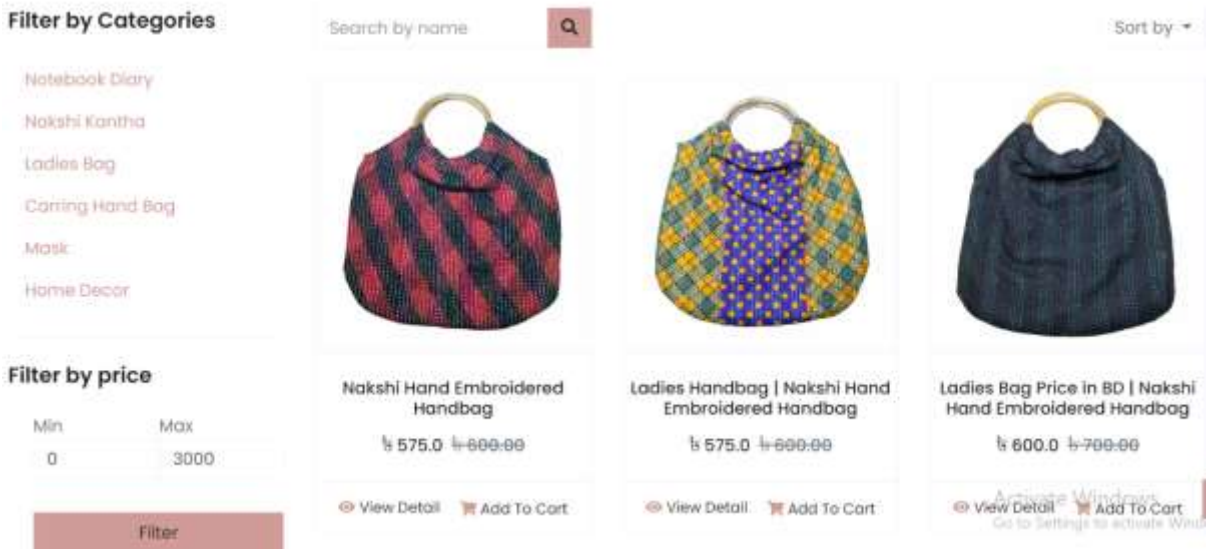

Figure 4.9: Search option

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4.4.3 Admin Panel log in

A login page is a page on a website or application which allows users to enter their credentials, such as username and password, in order to access the secure areas of the site or application. The purpose of a login page on a website or application that authenticate users to an entire website and grant access to the resources which is available for registered users.

To create a login page, we need to design a form with includes some fields for the user to enter user information like username and password. It should also include submitting option. By using or clicking submit button user can submit their credentials to perform the next functionalities.

Once a user has entered their credentials and clicks on submit the form, the login page should send the data to a server-side script that verifies the authenticity of the user's credentials. If the credentials are valid, the script should grant the user access to the secure areas of the website. If the credentials are invalid, the script displays the wrong credentials and allows the user to try again.

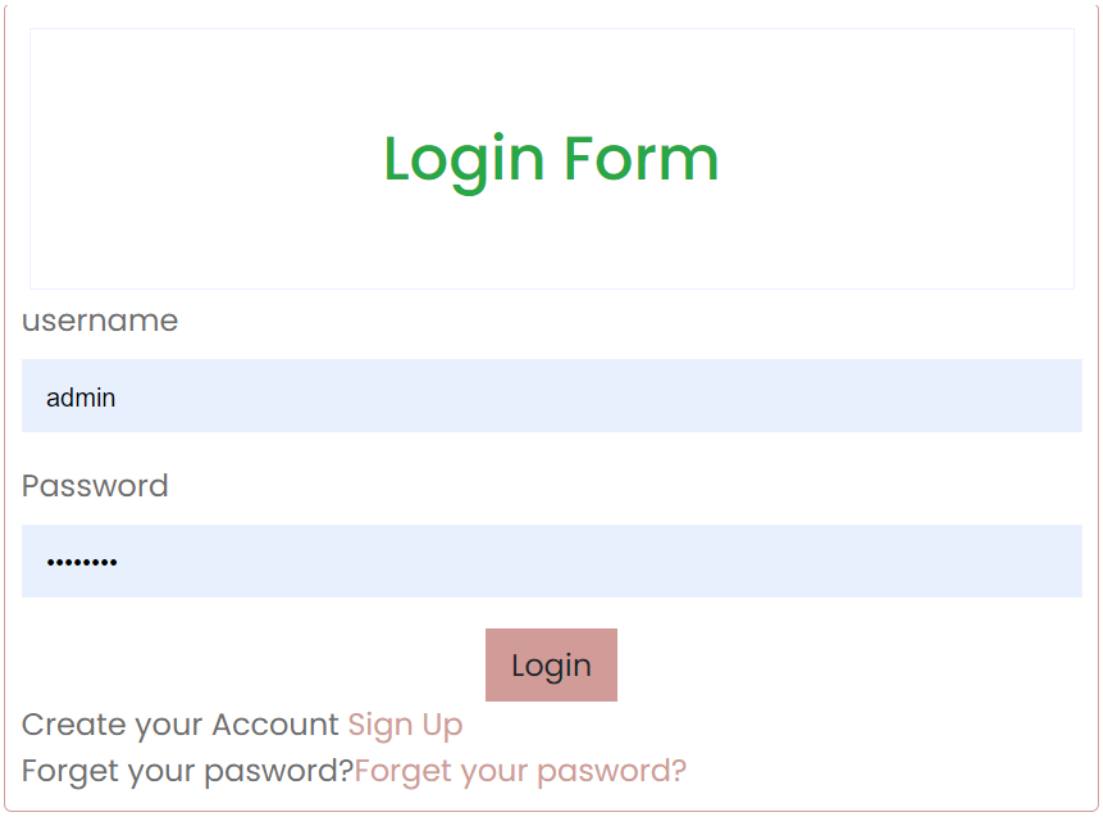

Figure.4.10: Admin Panel log in

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CHAPTER 5

Testing and Implementation

5.1 Database Development

The built-in Django database serves as the foundation for a large portion of this application. We are attempting to gather database knowledge in order to prepare a database within a simple division of our project. We are utilizing the knowledge base because we are using the built-in database of Django.

The software architecture system characterizes that system and allows it to communicate with others (segments). The connection can be found anywhere in the real world. It is critical to creating an intuitive system. As previously stated, we are working on an extraordinary component to make our system smooth and distinct from others.

5.2 Integration and Testing

The integration and Testing part explained bugs, errors, and interoperability of code. From this phase, we can test our project's working capacity. Like Bug, testing finds out the bug of our code. Load testing explains the user load capacity. Image with information, correct user response, data information, and functional work check in this testing part.

We add different buttons with different functionalities in our project to integrate with users properly and make it easy to use users.

5.3 Testing Implementation

E-Commerce testing can be defined as the process of testing various E-Commerce website elements such as design, specifications, functionalities, pages, and features to check their sanity and ensure they're not harming the performance of the site in any manner possible. We have listed important segments and test cases for eCommerce website testing.

Check:

- Image or images of the product.
- Price of the product.
- Product specifications.
- Reviews.

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- Check out options.
- Delivery options.
- Shipping information.
- In-stock/Out of stock.

5.4 Test results and Reports

We used so many kinds of language those are Django framework, html, CSS, Java script, python, bootstrap. In our website We use some specific designs like Register log in, Admin panel log in, Home page, Bottom section on the home page, Products page, product information and price list, select product, Product description, Payment option, Place order, Product description Search option.

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CHAPTER 6

Impact on society, Environment and sustainability

6.1 Impact on society

Best Shop is actually helping people adapt to the new normal by encouraging them to modify their shopping habits. In this changed reality thrust upon us by the deadly coronavirus, it is important that we turn to online shopping to stay safe. As the largest online marketplace, Best Shop is offering everything someone needs, from daily essentials to hygiene items, so that people, as well as the economy, can fare well in these challenging times**.**

6.2 Impact on environment

We want to inspire our communities to think more proactively about protecting the environment. Driving this approach is our commitment to plant one million trees across the region. We are recollecting and reusing the packaging material and reintegrating them into the manufacturing process. We are integrating cloud-based technology to remove the need for paper documentation in our operations and optimizing the size of our packages.

6.3 Ethical Aspects

Business Integrity, Anti Bribery, Child Labor, Forced Labor, Harassment & Abuse, Discrimination, Freedom of Association and Right to Collective Bargaining, Regular Employment, Wages & Benefits, Working Hours.

6.4 Sustainability plan

A sustainability plan is a roadmap for achieving long-term goals and documents strategies to continue the program, activities, and partnerships.

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CHAPTER 7

Conclusion & Future Scope

7.1 Conclusion

This project offers some kinds of services to the customer with whom he wants to be satisfied with traditional products. Through this project, people will get information about traditional products and its price on all available e-commerce websites for products sold in Bangladesh. This website is unique as it gives real-time information to the customer. We gather existing traditional products selling e-commerce company's database and make comparisons with each other similar products price. This will be beneficial for the customer who wants to buy traditional products at the lowest price. And the customer can save their time without wasting their time by visiting too many different websites.

7.2 Limitation

There are some limitations to the current system to which solutions can be provided us as a future development:

- We don't have real-time website API.
- **Security:** Our project didn't build securely. We didn't implement any security protocol in our project. So, a hacker can find out any vulnerability easily and can attack.
- **Load balancing:** Our project is a lightweight website. We didn't check its load-balancing power. The website can crash when a lot of users will use it at a time. It's a great limitation in our project.
- **Customer Login:** We don't add customer login and functionalities
- **Database:** Wouldn't add a Realtime website database.

7.3 Future Scope

We have some future goals to achieve from this project.

- Different categories of products will be added.

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- Collaborate with the company and advertisement.
- Try to add real-time website API.
- We will add customer login and functionalities.
- Build our project more user-friendly. Our main focus is on comforting and helping consumers. So, our will always user friendly.
- we don't have enough categories and also we don't have enough product but In future we add different categories and also add many types of products.

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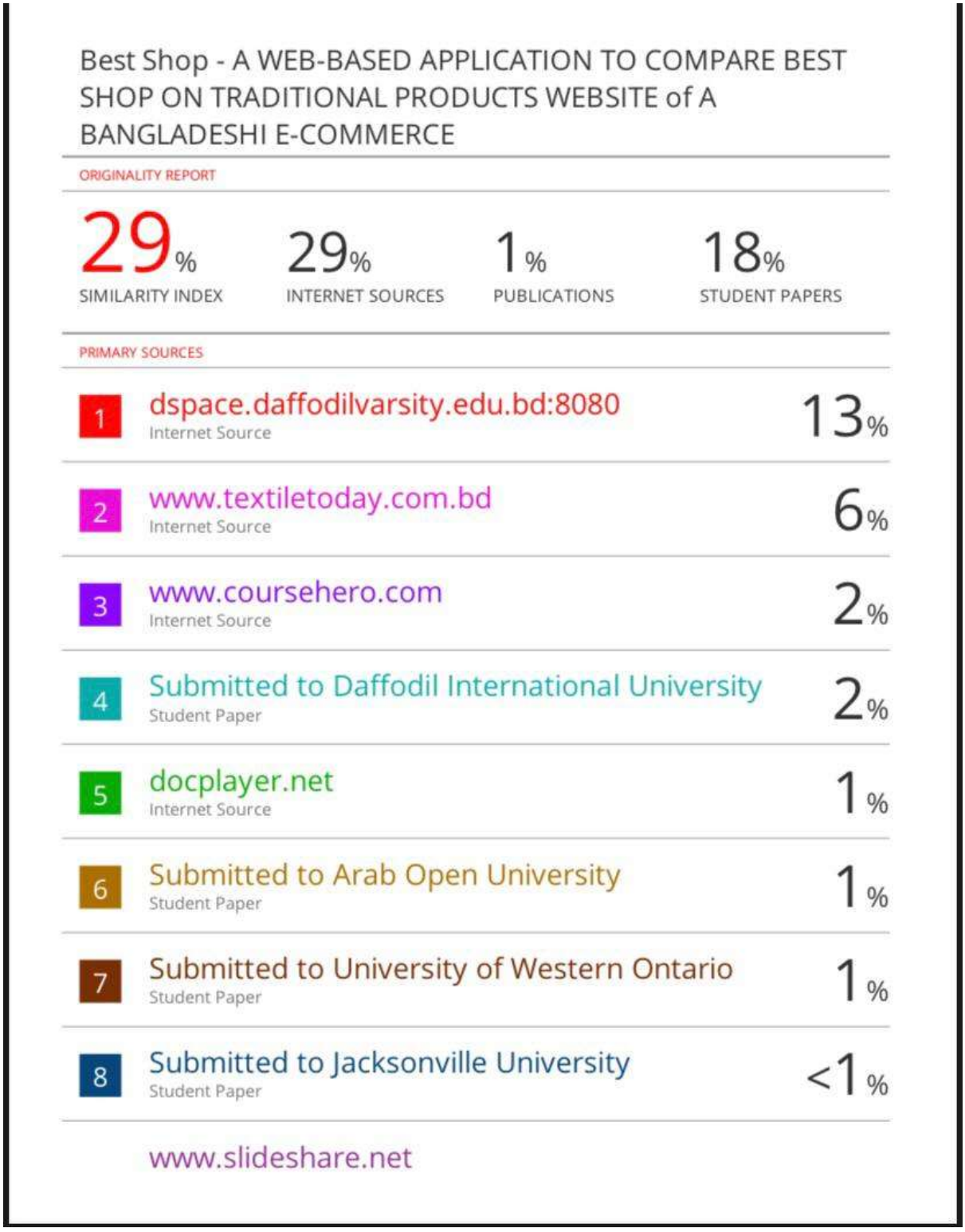

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