

**DESIGN AND DEVELOPMENT OF AN E-SHOP - "DOKANI MAMA"**

**BY**

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This Report Presented in Partial Fulfillment of the Requirements for the  
Degree of Masters of Science in Computer Science and Engineering

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**DAFFODIL INTERNATIONAL UNIVERSITY**

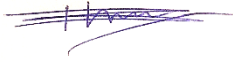
**DHAKA, BANGLADESH**

**22<sup>TH</sup> JANUARY 2022**

## APPROVAL

This Project titled “**Design and Development of an E-shop – Dokani Mama**”, submitted by Md. Shampadul Islam Shihab (ID: 211-25-939) 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 M.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 22<sup>th</sup> January, 2022.

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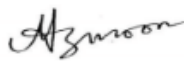
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## DECLARATION

I hereby declare that, this project has been done by us under the supervision of **Md. Tarek Habib, Assistant Professor, Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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## **ABSTRACT**

“Dokani Mama” is a Business to Consumer online E-commerce application which is designed as an easy solution for online shopping opportunity for consumers. This shopping platform has a lot features for customers. In today's world, a web application is an especially helpful and essential tool, and it is becoming incredibly popular. Customers are encouraged to shop online rather than in person during the COVID-19 crisis due to health concerns, and the entire world is attempting to carry business via the internet. The main objective of the E-commerce Portal is to keep track of product, customer, shipping, payment, and category information. It also has a couple of secondary goals. It keeps track of all of the products, sales, categories, and product information that is loaded into it. The system is developed using PHP, HTML, CSS etc. It basically helps consumers who want to buy their necessary products in a user-friendly manner. The consumers can simply visit the system, choosing products from any category, register for order, log into their accounts and finally can make payment of their purchased amount. The customers can edit their order list before order confirmation. It provides 24x7 supports. Customers can make inquiries about any products or services and place orders anytime, anywhere from any location. The present shopping website includes a range of electronic items, garments of all age groups, home appliances, medical instruments and other necessary products that consumers require on a daily basis. This project developed based on Bangladeshi people. Now this project only for web platform and in near the future, I will try the system that will be connecting for smartphone users. As like the android and ios app platform.

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 INTRODUCTION**

The online based e-commerce system is an online shopping platform or site where people can get or buy their daily need. This system is implemented for makes shopping easy and convenient for buyers. The project is developed by the most popular web programming language PHP. The user-friendly interface and functionality helps users and admin to manage the application easily. Consumers can buy electronics product, fashionable products, medical instruments and so many products.

### **1.2 OBJECTIVES**

The objective of this project is to develop a general purpose e-commerce store where product like cloths can be bought from the comfort of home through the internet. However, for the implementation purposes, this paper will deal with an online shopping for clothes.

### **OVERALL DESCRIPTION**

- Any member can register and view available products.
- Only registered member can purchase multiple products regardless of quantity.
- Contact Us page is available to contact Admin for queries.
- There are three roles available: Visitor, User and Admin.
- Visitor can view available products.
- User can view and purchase products.
- An Admin has some extra privilege including all privilege of visitor and user.
- Admin can add products, edit product information and add/remove product.
- Admin can add user, edit user information and can remove user.

### **1.3 MOTIVATION**

Day by day all the world depends on online & technology. Online is very effective in all sectors. Last year in Covid-19 situation, many of my friends started their business in online. They started based on Facebook page and groups. As I have come from a business family, I wanted to do something in this sector. Because online business is awesome for everyone where we can buy the product through online and I can sell product through online. I motivated from these and decided to make an e-commerce site.

### **1.4 EXPECTED OUTCOME**

This project is developed to change the as usual system of shopping. The main outcome of this project is making customer's shopping comfortable and save their valuable time.

Knowing about any products and it's details without sign in/sign up. Can be accessible from any place like home, office or anywhere. Buy products from any place of the world. Different types of discounts and flat rate are available. Using search option anyone can easily get his desired products. Online payment system available. No need to psychically present.

### **1.5 REPORT LAYOUT**

In this section I discussed the summarization of our topic which I have discussed in our other chapter.

**Chapter 1** consist of Introduction, Objectives, Motivation, Expected outcome and Report Layout.

**Chapter 2** I discuss about Introduction, Related works, Comparative Studies, Scope of the problem, Challenges.

**Chapter 3** there are discussion about requirement specification like Business Process Modeling, Requirement Collection and Analysis, Logical Data Model and Design Requirements.

**Chapter 4** here I discuss about overall design specification of this project.

**Chapter 5** discuss about implementation and testing & **Chapter 6** Conclusion and future scope.

## **CHAPTER 2**

### **BACKGROUND**

#### **2.1 INTRODUCTION**

When I first started working on this project, "Online Shopping System," I undertook extensive research on the subject's history. After that, I'll gather information and draw this project, which is separated into numerous areas. Finally, I'm working on a web-based project, which I'm building one step at a time. Every part adds a new function while also ensuring that the design is user-friendly. This section displays development on the project's backend.

#### **2.2 RELATED WORK**

Dokani Mama is a web application which is usable by most of the people in our country. Specifically rural areas people need it. For example Facebook is also an e-commerce site and many people buy products using Facebook. Because E-commerce concept means electronic commerce and it is divided by many classifications. Beside these Daraz, Pickaboo, Foodpanda, Shohoz, Bikroy.com, sheba xyz etc are the e-commerce site in Bangladesh.

#### **FEATURES**

1. Online product store, product images and details.
2. Easy purchase system with bkaash, Rocket. Cash on delivery is also available.
3. No need to go any shopping mall.

## **2.3 SCOPE OF THE PROBLEM**

1. Sometimes need to change product.
2. Have to ensure continuous internet connection to visit product details and buy products.
3. Needed some electronic devices like smartphone, laptop, tab or others.
4. Sometimes it's difficult to location tracking and product delivery.
5. Protecting this web application hacker and crackers.
6. Difficult to maintain the website.

## **CHALLENGES**

1. There is little progress in the regulatory and legislative framework, which leads to issues such as intellectual property rights protection for products and services delivered through electronic commerce, as well as financial and contractual issues. As a result, investors and potential purchasers are losing faith in the market, and the rate of development is slowing.
2. There are challenges with the international notion of e-commerce itself. These include: a lack of confidence that the partner company and the product or service it offers exist in other parts of the world; differences in business traditions and rules in these companies; and a lack of confidence that the partner company and the product or service it offers exist in other parts of the world.

## CHAPTER 3

### REQUIREMENT SPECIFICATION

#### 3.1 BUSINESS PROCESS MODELING

People will be able to continue their shopping using my idea, which is built on a business concept. I do flash sales on religious holidays and national holidays such as EID, Durga Puja, New Year's Day, Independence Day, International Mother Language Day, Valentine's Day, and so on. There's also a section named "Men for Men" where I'll provide a special discount to the destitute and elderly. The discount will be between 5% and 100%. I am extremely concerned about folks living in rural areas who are poor, and I give them a special discount. I make certain that suitable treatment is given at the appropriate moment on this website. Non-profit groups, such as orphans, students, and teachers, are also eligible for discounts.

#### 3.2 REQUIREMENT COLLECTION AND ANALYSIS

First when I started this project, I did some research and collected some requirements to complete this project. Then I complete this project.

1. **Used Coding:** The fundamental requirements of our project needs know coding HTML, CSS, SASS (.scss), PHP Laravel, RESTful API, Jwt token, JavaScript, PHP, MySQL, jQuery, Ajax and so on.
2. **Tools and compiler:** Atom, chrome, sublime text and xampp server.

#### PRODUCT ANALYSIS

First of all, I selected which types of product I am willing to show or sell on my websites and then I have to categories of these products. I added products by their own categories also I show their price also. In fashion categories, there are three types such as Women wear, Kids Wear, men wear etc. Also, decorate their Brand and price value.

## **TRAFFIC ANALYSIS**

Any IT worker, regardless of whether they work in a small business or a major enterprise, understands the necessity of traffic analysis. After all, detecting and resolving network faults is a true art that is based on the specialist's instincts as well as the depth and quality of the data with which he works. And the traffic analyzer is the tool that this information gives. A intelligent network traffic analysis solution may not only help us figure out how packets are sent, received, and safely transmitted across our network, but it can also help us accomplish a lot more!

## **ANALYSIS OF WEBSITE OPTIMIZATION**

The concept calls for the following items to be included in a thorough technical assignment:

- Overall appearance of the site
- The site's page linkages diagram (Mind Map)
- URL Optimization
- Creation of a human-readable URL (CNC)
- Converting dynamic URLs to static URLs
- Internal link optimization
- Breadcrumbs
- Pagination page performance
- Improving Product filtering

### **3.3 USE CASE MODELING AND DESCRIPTION**

A Use Case Diagram, also characterized as a unified modeling language (UML) diagram, is a graphical depiction of a system activity and the functions of its users. It's a simple depiction of a user's interaction with a system. A use case shows a sequence of activities or occurrences, as well as the user's participation in these actions:

1. Make use of a case diagram Scenarios in which the user system is involved.
2. Make a case Graph the objectives that the user system or application helps such entities (also known as actors) in achieving.

## LOGIN FOR CUSTOMER

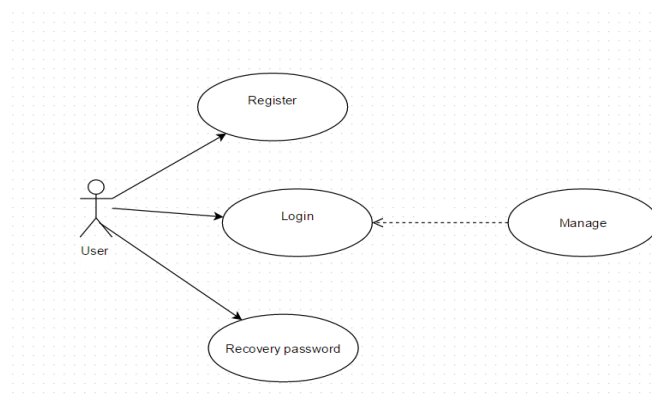


Figure 3.1: Log in for Customer

## USE CASE FOR ADMIN

Admin first visit this website. Admin control the full control of this site. Product manage, category manage, order manage etc.

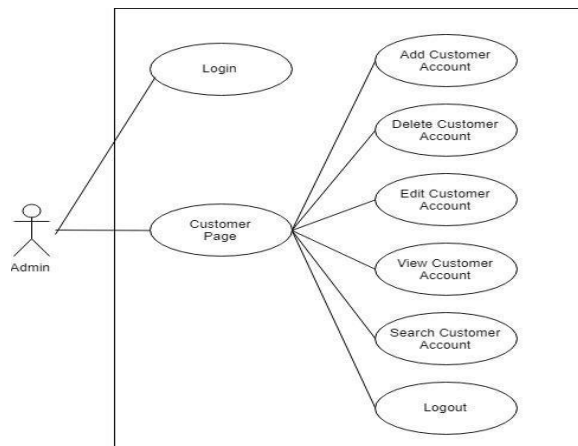


Figure 3.2: Use Case for Admin

### 3.4 DATABASE MODEL

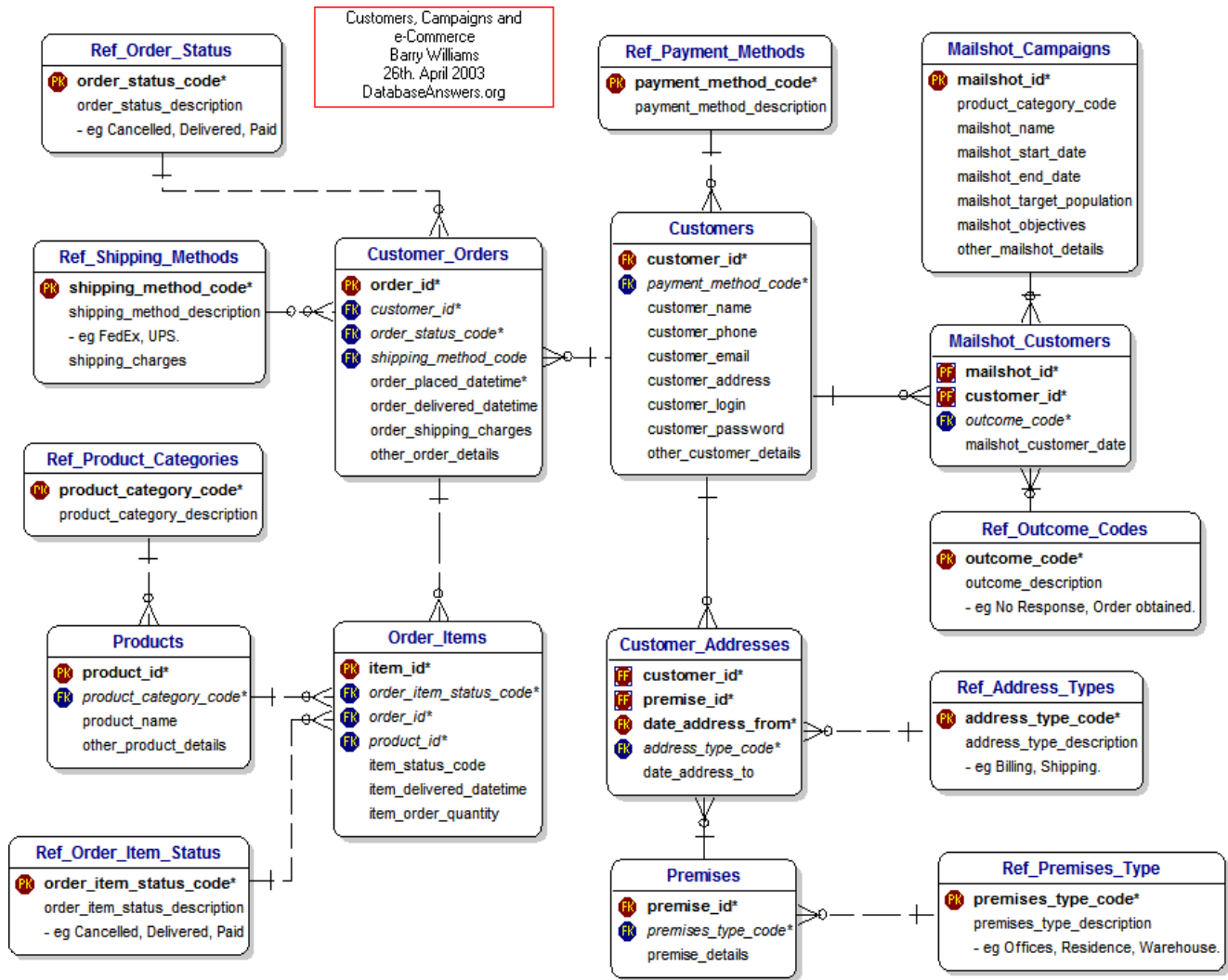


Figure 3.3: Database Model



## **3.5 DESIGN REQUIREMENTS**

The design of a website refers to how it will seem. Every web application requires design specification details that include UI information (user interfaces). Customers, as is customary, get product information.

Different tools and approaches are used in design. Our project's basic requirements necessitate coding expertise. HTML, CSS, SASS (.scss), PHP Laravel, RESTful API, Jwt token, JavaScript, PHP, MySQL, jQuery, Ajax, as well as other technologies are frequently used.

### **3.5.1 FRONT-END DESIGN**

1. Home page.
2. New user Registration interface.
3. Product page
4. Cart page
5. Checkout page
6. Layout Design
7. Customer Dashboard

### **3.5.2 BACK-END DESIGN**

1. All process back end dashboard.
2. Product manages
3. Order Manages.
4. Banner, Slider, System Settings.
5. Offer manage

# CHAPTER 4

## DESIGN SPECIFICATION

### 4.1 FRONT PAGE DESIGN

When a visitor first visits a website, the front page is the first content that he or she views. Every online application requires design parameters with information that offers user interfaces, which is referred to as UI (user interfaces).

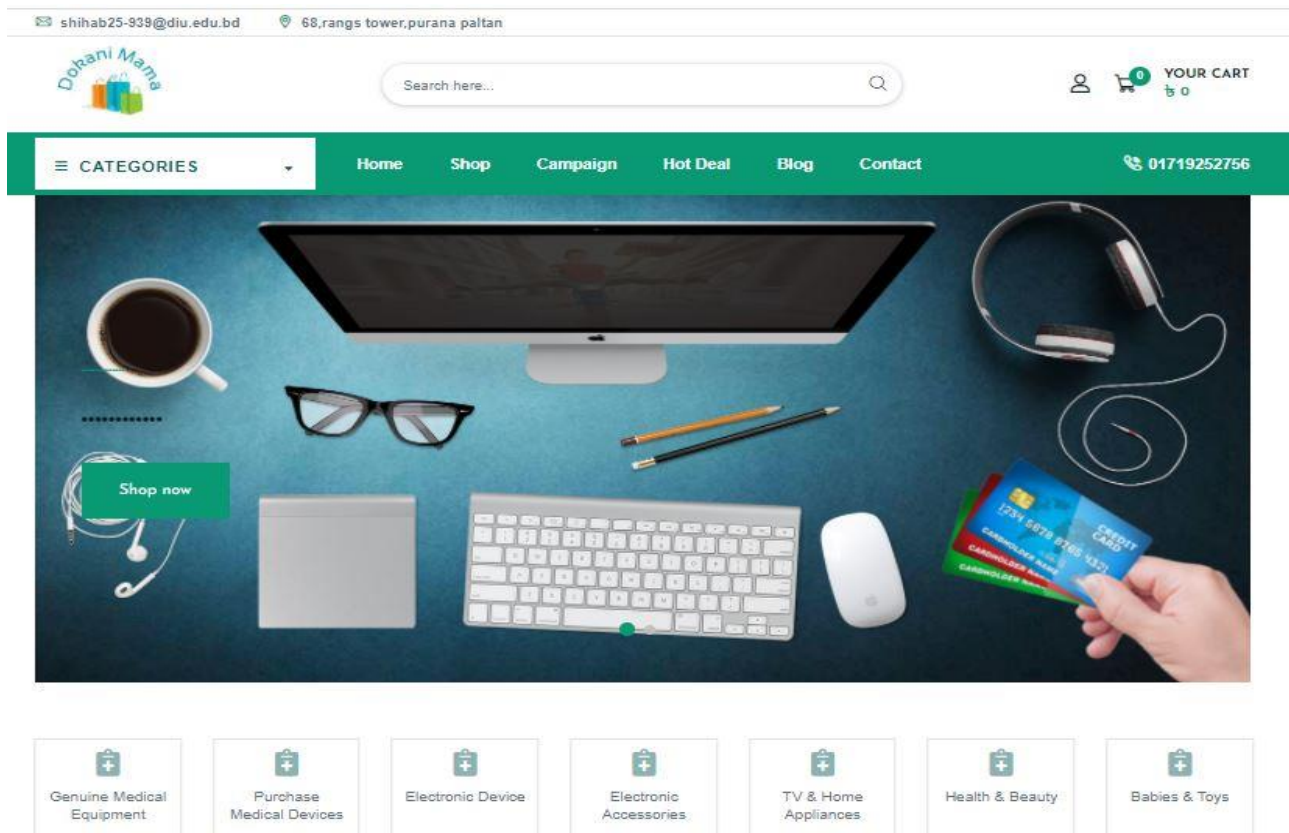


Figure 4.1: Font-End Home Page Default View

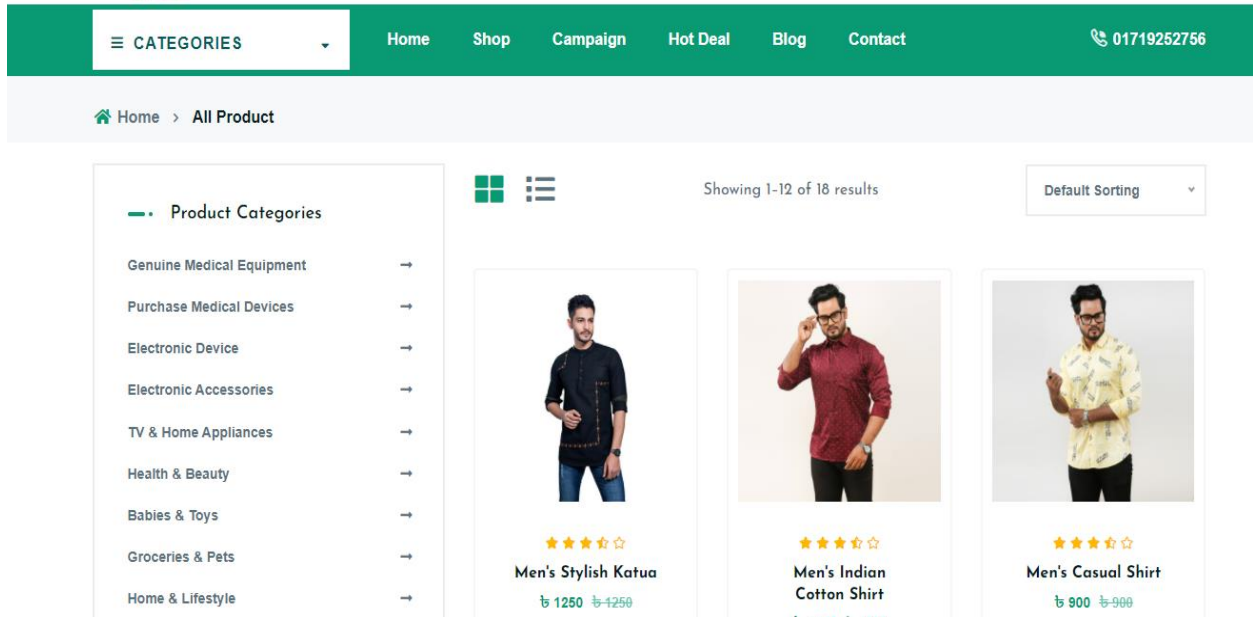


Figure 4.2: Font-End Shop Page

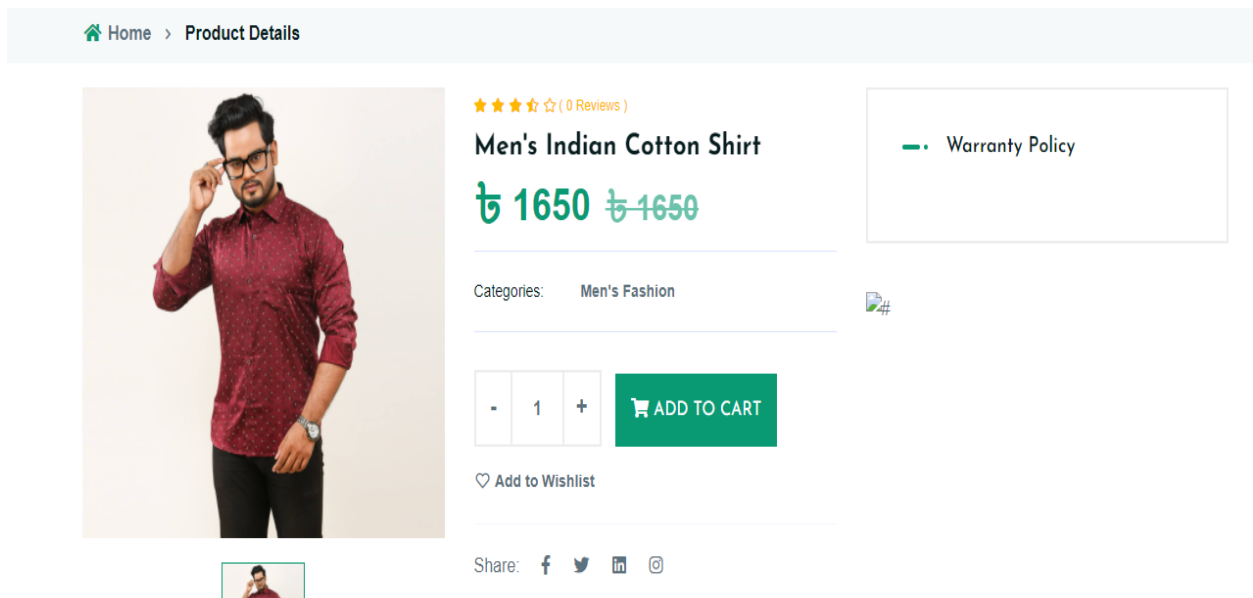


Figure 4.3: Font-End Product Details Page

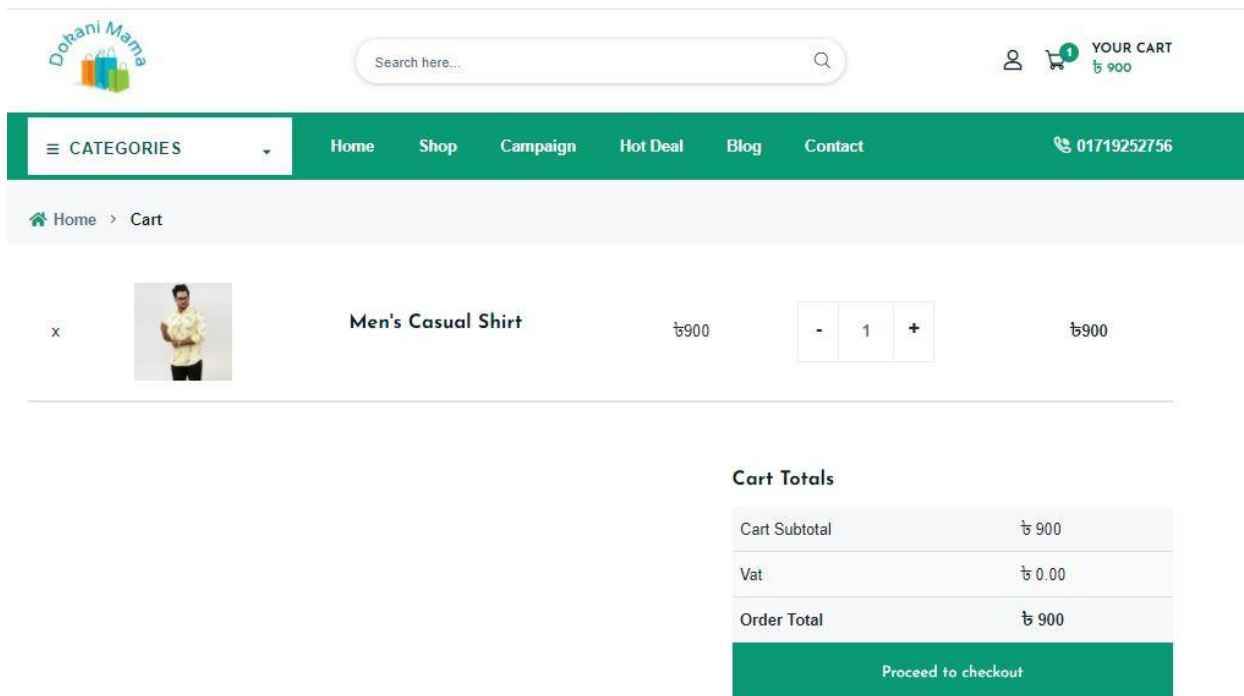


Figure 4.4 : Cart Page

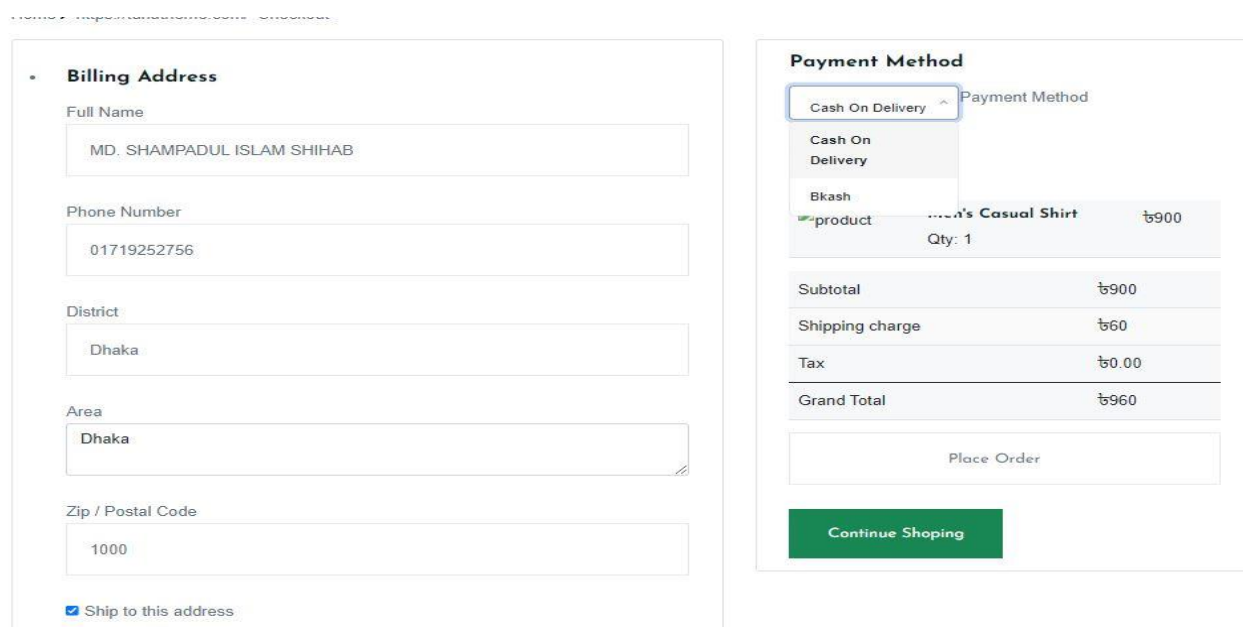


Figure 4.5 : Checkout Page with Payment Option

Home > <https://tunatheme.com/> Order

### My Account

- Account Information
- My Wishlist
- My Orders

Order #	Date	Order total	Order	Action
O-AE1C659FF	21 Jan 2022 10:23:56 PM	₳960	Pending	<a href="#">Cancel Order</a> <a href="#">View details</a>
O-AC264B9E20	21 Jan 2022 08:25:40 PM	₳1310	Pending	<a href="#">Cancel Order</a> <a href="#">View details</a>

Figure 4.6 : Order Status Page

Home > <https://tunatheme.com/> Order details

### My Account

- Account Information
- My Wishlist
- My Orders

Date : 21 Jan 2022 08:25:40 PM

**Order #100316290 - Pending**

**Shipping Address**

Name : MD. SHAMPADUL ISLAM SHIHAB  
 Phone : 01719252756  
 District : Dhaka  
 Area : Dhaka  
 Zip/Postal code : 1000

**Billing Address**

Name : MD. SHAMPADUL ISLAM SHIHAB  
 Phone : 01719252756  
 District : Dhaka  
 Area : Dhaka  
 Zip/Postal code : 1000

Payment method : Cash On Delivery

Photo	Product name	Price	Qty	Subtotal
	<b>Men's Stylish Katua</b> Product id : P-621B0047AB	₳ 1250	1	₳ 1250
Subtotal				₳ 1250
Shipping charge				₳ 60
Tax				₳ 00
<b>Grand Total</b>				<b>₳ 1310</b>

Figure 4.7: Order Details

## 4.2 Back-End Design

Back-end control all processes as like login, product manage, order manage, site control system.

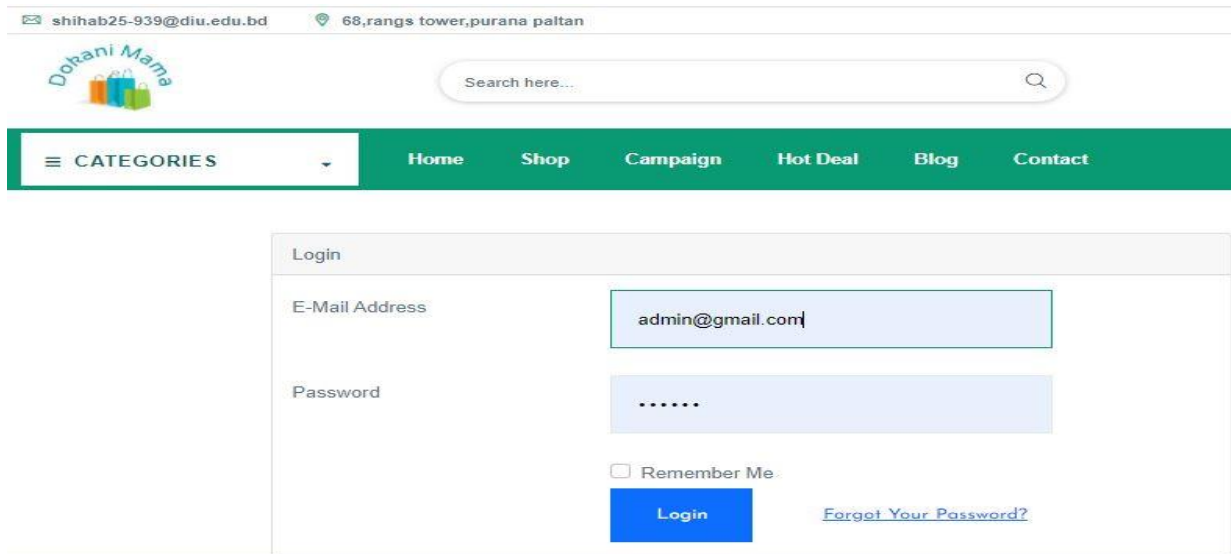


Figure 4.8: Back-End Home Admin Login

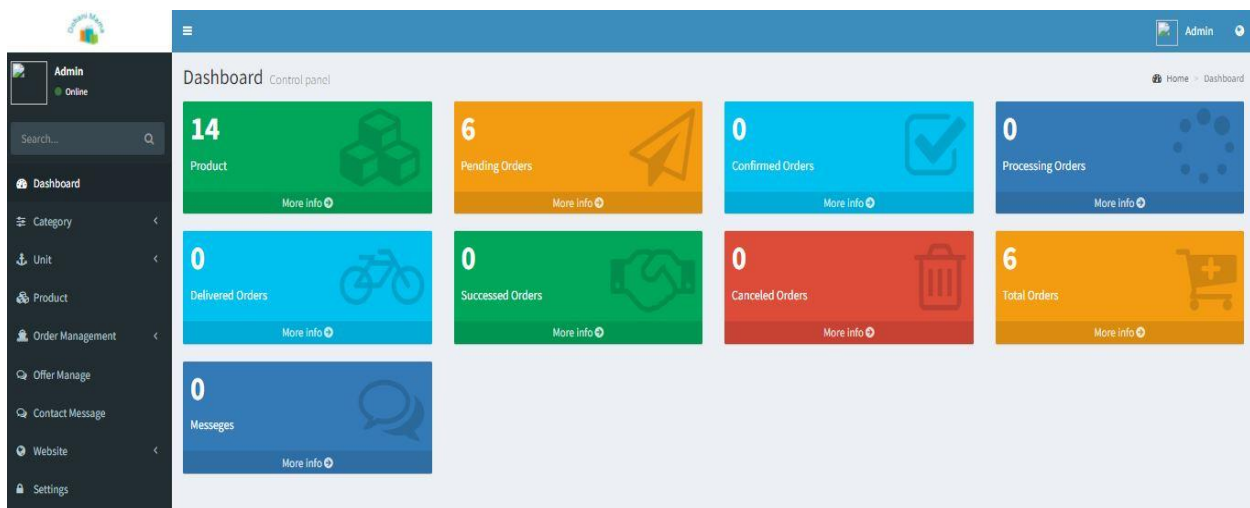


Figure 4.9: Back-End Admin Dashboard

**Product List**

Copy CSV Excel PDF Print

Search:

SL	Product code	Title	Sell price	Regular price	Availability	Upload By	Status	Create	Action
1	P-821B0047AB	Men's Stylish Katua	1250 tk	1250 tk	In stock	Admin	Active	14 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
2	P-8216516A1E	Men's Indian Cotton Shirt	1650 tk	1650 tk	In stock	Admin	Active	14 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
3	P-8201151F77	Men's Casual Shirt	900 tk	900 tk	In stock	Admin	Active	14 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
4	P-81FC1AD430	Men's Denim Shirt	650 tk	800 tk	In stock	Admin	Active	14 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
5	P-81CDC3E549	Casual Men's Sweatpant Trousers	550 tk	550 tk	In stock	Admin	Active	14 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
6	P-6FFFCS2E2E	realme narzo 50i-4gb ram64gb rom- 5000 - 5999 mAh	11000 tk	11000 tk	In stock	Admin	Active	13 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
7	P-0BF77D8776	Steam Inhaler	2850 tk	2850 tk	In stock	Admin	Active	08 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
8	P-0BF2B4E0F2	Dental Instrument	100 tk	100 tk	In stock	Admin	Active	08 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
9	P-0BEC83A6EC	Dental X-Ray Machine	92000 tk	92000 tk	In stock	Admin	Active	08 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>
10	P-0BE15AB393	Dental Chair	90000 tk	90000 tk	In stock	Admin	Active	08 Dec 2021	<a href="#">Edit</a> <a href="#">Delete</a>

Showing 1 to 10 of 14 entries

Previous 1 2 Next

Figure 4.10: Back-End Product List

**Order list**

Copy CSV Excel PDF Print

Search:

SL	Order #	Date	Order total	Order	Action
1	O-BBE510514A	10 Jan 2022 11:04:17 AM	₹610	Pending	<a href="#">View details</a>
2	O-3F6E1BA5D2	23 Dec 2021 10:11:13 AM	₹11060	Pending	<a href="#">View details</a>
3	O-EB9EE4D80A	19 Dec 2021 10:49:50 AM	₹11060	Pending	<a href="#">View details</a>
4	O-966FCB01E8	15 Dec 2021 09:54:36 AM	₹11060	Pending	<a href="#">View details</a>

Showing 1 to 4 of 4 entries

Previous 1 Next

Figure 4.11: Back-End Order List

## 4.3 INTERACTION DESIGN AND UI/UX

User experience (UX) design is the process design is that how much convenient it to user when they are using the website. Is this providing meaningful and relevant experiences to users? It is involved in the user and admin panel.

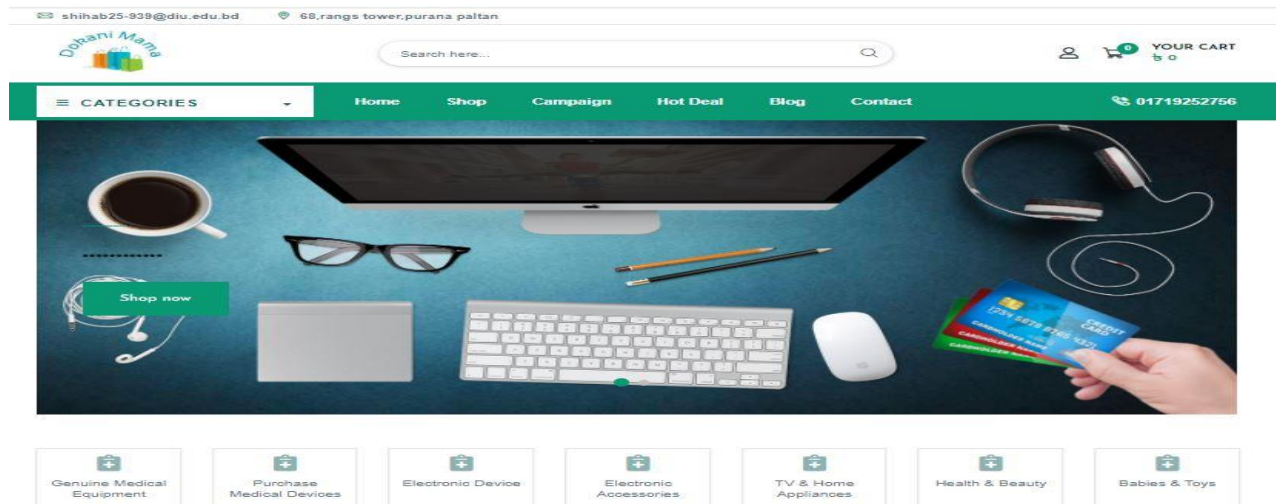


Figure 4.12: Home Page UX Design

## 4.4 IMPLEMENTATION REQUIREMENTS

Every software development system needs to select language and frameworks. This depends on project requirement and team member ability.

### HTML

HTML is a stand hypertext client site language. It is us for text or documentation and animation website show on the browser site.Html work body structure and also many think. It is also used for UI (user interfaces) on the client site [4].

As like

1. Shown table content.
2. Video show in site.
3. Header and footer content



## HTML

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

<head>

  <!--RESOURCES FILES-->
  <link rel="stylesheet" href="resources/css/style.css">
  <link rel="stylesheet" href="resources/css/responsive.css">

</head>

<body>
```

Figure 4.13: Compiler Code

## CSS

CSS working design on the website and also font size. Color Manipulation and its work combine in HTML. It uses the design of attractive and beautiful user interfaces. It is also table design and content design etc.

## CODE

```
1  .box {
2    border: 1px solid black;
3    height: 200px;
4  }
5  .box {
6    border: 1px solid black;
7    height: 200px;
8  }
9  .box {
10   border: 1px solid black;
11   height: 200px;
12 }
```

Figure 4.14: CSS Code

## SASS (.scss)

CSS has about 3 pre-processor (sass, stylus and less). Now Sass is more popular. SASS stands for Syntactically Awesome Style Sheets. Sass is the most mature, stable, and powerful professional grade CSS extension language in the world.

## PHP

PHP is a popular programming language in world, about 70% website developed base use on PHP (Word Press, Joomla, laravel, Symfony etc.)

## CODE

```
1 <?php include "includes/header.php" ?>
2
3 <!-- Begin Page Content -->
4 <div class="container-fluid">
5
6     <!-- Page Heading -->
7     <h1 class="h3 mb-4 text-gray-800">All Comments</h1>
8
9     </div>
10 <!-- /.container-fluid -->
11
12 </div>
13 <!-- End of Main Content -->
14 <?php include "includes/footer.php" ?>
15
16
```

Figure 4.15: PHP Code

## **LARAVEL**

The most popular PHP framework is Laravel. Laravel is a free, open-source PHP web framework built by Taylor Otwell and based on Symfony [13]. It is designed for the building of online applications that follow the model–view–controller architectural design.

### **MAIN FEATURE THAT IS AWESOME**

- Authentication system Processing In use Laravel
- Collection Data
- ORM
- Mailing

## **RESTful API**

REST is an acronym for REpresentational State Transfer. It uses for spa base project or Ajax request, native apps data collecting purpose.

Basically, the methodology is the endpoint. It is an architectural style for distributed hypermedia systems and was first presented by Roy Fielding in 2000 in his famous dissertation

## **JWT TOKEN**

JWT JSON web token is open-source. It decodes, verifies and generates token with a different algorithm. It's used for spa based project login system.

## **MySQL**

MySQL is a relational database management system that is free and open-source. "My" is the name of co-founder Michael Widenius's daughter, and "SQL" is the acronym for Structured Query Language.

## CHAPTER 5

### IMPLEMENTATION AND TESTING

#### 5.1 IMPLEMENTATION OF DATABASE

Every dynamic website requires a database for data storage and connection. The SQL interface makes queries, which are handled by a database management system that produces or modifies data in response to these requests. This involves the use of a tiered processing system.

#### LEVEL STRUCTURE PROCESSING BY THE USER OR APPLICATION

1. Data processing and storing is performed by the parser.
2. Executer: Data token and Executer.
3. Transactions: Transactions data table create.
4. Table cache: It occasionally suffers from data loss.
5. Disks: Final output is given.

#### MYSQL IMPLEMENTATION



## **5.2 TESTING IMPLEMENTATION**

In both dynamic and static websites, system testing is a critical stage. In model time, numerous testing systems are used.

Black box testing, white box testing, stress testing, and cross-browser testing are all examples of testing systems.

### **5.2.1 BLACK BOX TESTING**

System of black box testing I've been provided input to test output. This testing system's internal variable input variable goes through multiple of tests before deciding the outcome. At present time, black box testing seems to be the most effective testing method. It is a typically used testing method.

### **5.2.2 WHITE BOX TESTING**

White box testing is quite similar to black box testing. After a series of stages, the output is discovered. This provides a clear picture of what is going on during the system's execution. The bug's incidence spots were all visible and were eliminated.

### **5.2.3 CROSS BROWSER TESTING**

Cross Browser Testing is a sort of testing that evaluates if an application performs as predicted across several browsers and degrades gracefully. Cross-browser testing is the practice of confirming that your program works in a variety of browsers.

1. Mozilla Firefox
2. Chrome
3. Opera
4. Microsoft Edge
5. Safari etc.

### **5.3 TEST RESULTS AND REPORTS**

The services and performance of Dokani Mama are superior. It's always better to have input when I'm testing this website. Using mobile data and broadband internet, there were no issues found when browsing this site. The loading time was superfast.

## CHAPTER 6

### CONCLUSION AND FUTURE SCOPE

#### 6.1 DISCUSSION AND CONCLUSION

The online Shopping system is done with many features that help to shopping. It is done HTML, CSS, SASS (.scss), PHP Laravel, RESTful API, Jwt token, JavaScript, PHP, MySQL, jQuery, Ajax etc. Online Shopping System are dynamic and user-friendly website. This website benefit in our country. Also, benefits seller and customer and country revinew. Especially in rural areas, people benefit very much. This project provides services starting as soon as possible. Online Shopping System is secure services system do not flash any information.

#### 6.2 SCOPE FOR FURTHER DEVELOPMENTS

The online shopping system needs high publicity to cause it's famous in our country. That needs to develop our community strong. In near future online medical services, develop android and ios. The online shopping system needs advertising when a rural area people well knowledge of this project. So needs highly qualified employees.

1. Will develop a smartphone friendly app for both android and ios.
2. It can be supplied for international Use.
3. Have to spread all over the world.
4. 24/7 chatbot feature.



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# Plagiarism Report

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## ORIGINALITY REPORT

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