MEDICINE SHOP

BY

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

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APPROVAL

This Project/internship titled **"Medicine Shop"**, submitted by Md. Shahjalal, ID No: 152-15-5701 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 May 2, 2019.

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DECLARATION

We hereby declare that, this project has been done by me under the supervision of Mr. **Md. Jueal Mia, Lecturer, 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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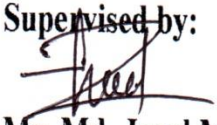

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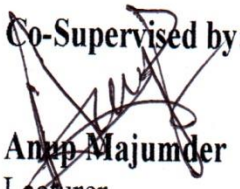

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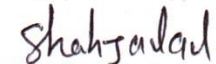

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Finally, I must acknowledge with due respect the constant support and patients of my parents.

ABSTRACT

Medicine Shop is a stage for the all level clients, This project is used mainly for pharmacy stores to maintain the details of the pharmacy store such as medicine stock.Everyday we face many problem for find our medicine and we run one pharmacy to another pharmacy.Medicine shop project helps people find medicine easily.If any one need any types of medicine he or she visit my Medicine Shop web application and easily find his or her medicine.There are many types of medicine available in my medicine shop project like Ayurvedic medicine, Antibiotic medicine,Syrup,Drops,Tablet etc.We serve our customer 24 hours. Customer can search medicine and easily find his/her medicine if available in stock.All the stock of medicine is update daily by admin.My medicine shop web application is user friendly.User can view details of the medicines withouth going anywhere.

TABLE OF CONTENTS

CONTENTS **PAGE**

Board of Examiners I

Declaration II

Acknowledgements III

Abstract IV

Table of Contents V-VI

List of Figures VII

List of Tables VII

CHAPTER 1: INTRODUCTION 08-09

1.1 Introduction 8
1.2 Motivation 8
1.3 Objectives 8
1.4 Expected Outcome 9
1.5 Report Layout 9

CHAPTER 2: BACKGROUND 10-11

2.1 Introduction 10
2.2 Related Work 10
2.3 Comparative Studies 10
2.4 Scope of the Problem 11
2.5 Challenges 11

CHAPTER 3: REQUIREMENT SPECEFICATION 12-15

3.1 Requirement Collection and Analysis 12
3.1.1 Software Requirement 12
3.1.2 Framework, Language, Tools 12
3.1.3 Hardware Requirement 12
3.1.4 Tools 13

3.1.5 Database 13
3.2 Business Process Modeling 14
3.3 Use Case Modeling 15

CHAPTER 4: DESIGN SPECEFICATION 16-29

4.1 Front-end Design 16
4.2 Back-end Design 27
4.3 Implementation Requirements 28

CHAPTER 5: IMPLEMENTATION AND TESTING 30-32

5.1 Introduction 30
5.2 Implementation of Database 30
5.3 Implementation of Front-end Design 30
5.4 Implementation of Interactions 31
5.5 Test Results and Reports 31
5.6.1 Login Report 32

CHAPTER 6: CONCLUSION AND FUTURE SCOPE 33-34

6.1 Discussion and Conclusion 33
6.2 Scope for Further Developments 33

REFERENCES 34

PLAGIARISM 35-36

LIST OF FIGURES PAGE NO

FIGURES

Figure 3.1 Business Process Model 14

Figure 3.2 Use Case Diagram of general user's activity 15

Figure 4.1.1 Home Page 16

Figure 4.1.2 A part of registration page 18

Figure 4.1.3 Login page for admin 19

Figure 4.1.4 Admin Panel Dashboard Design. 20

Figure 4.1.5 Insert product page 21

Figure 4.1.6 Registration page of web application 22

Figure 4.1.7 Product details page 23

Figure 4.1.8 Shopping cart page 24

Figure 4.1.9 Payment method page 25

Figure 4.1.10 track order page 26

Figure 4.2 Database Design of Medicine Shop 27

Figure 4.3 Requirements of Implementation 28

LIST OF TABLES

TABLES

Table 5.5 Login report 31

Table 5.6 Registration 32

CHAPTER 1

INTRODUCTION

1.1 Introduction

Medicine Shop is a web-based application that includes mobile application in cross platform. Medicine Shop is basically a platform for the all level peoples that will help them to get the appropriate price of their Medicine-products. Using this platform, users will be able to buy Medicine-products. It will help the all level peoples to directly contact with the resellers of a far distance that will reduce the intermediate layers called “Manager” between shopkeepers and resellers. They will be able to hire various kinds of vehicles, medicine related machines using this system. The app is totally user friendly & developed considering to make easily useable for the customers.

1.2 Motivation

Medicine is the main source to survive human being. Daily we face many problem in our human health and face many disease. If we want to survive from disease we take medicine and go from one pharmacy to another pharmacy but some time we can not get our medicine so this project is so important for every patients to collect medicine easily.Peoples browse this web application and easily find his/her medicine because of there are many types of medicine available in this web application and we also serve our customers 24 hours.

1.3 Objectives

The objectives of this project are

- To make a web platform for reducing the gap between customers and the resellers.
- To reduce the intermediate layers between customers and the resellers.
- To provide our customers the info of their appropriate price of their produced goods.
- To help our customers to have the proper info of their asking within an efficient way.

- To provide a platform for hiring medicine related machines as well as vehicles.
- To digitalize our medicine sector by connecting our customers with technology.

1.4 Expected Outcome

The expected outcomes of this project are

- Buyers will be able to search their medicine product and find his/her medicine within short time.
- Sellers will be able to post their requirements that will be notified to the buyers those who have the best matches of these requirements.
- Users will be able to see all categories medicine withouth registration
- User will be able to buy medicine 24 hours.
- Users will be able to directly communicate with the resellers at a far distance ignoring the intermediate layers.
- Customers will be able to track his order.
- Customers will be able to be concerned of the actual price list of their produced products.

1.5 Layout of the Report

Chapter one has demonstrated an introduction to the project with its motivation, objectives, and goals.

- Chapter two will have "Overview Background" shows project management phases and project management challenges.
- Chapter three will have Software Requirement.
- Chapter four will have System Analysis.
- Chapter five will have system design and specification.
- Chapter six will have Implementation, and Testing.
- Chapter seven will have conclusion.

CHAPTER 2

BACKGROUND OVERVIEW

2.1 Introduction

We have thought to reduce the gap between the root level customers& the resellers and have finally come out with the idea of medicine shop. Medicine Shop focuses on providing an online platform that will enable our root level customers to directly communicate with the resellers in the towns. It will provide the functionality of medicine related vehicles, machines as well as laborers. It will make them aware of the actual price of the products, will provide them the solutions of their asking and so on.

2.2 Related Works

I am working with another ecommerce web application which is for our daily things like foods, cloths, books, electronics. There are many ecommerce web application related with my web application but main difference between my web application is, their ecommerce web application is for buy many goods for their daily life and my web application is for medicine which is rare in our country. Customers easily find their medicine in my web application within short time because of there are many categories medicine in my project.

2.3 Comparative Studies

Bikroy.com sells various types of products. So, it's not easy for the farmers to get their products or post their product in this platform to sell. This contains a variety of categories that is beyond the usage and understanding of the farmers. In fact, it's not users friendly for the farmers. Farmers need a totally user-friendly platform that can be used by them easily & that will provide them the easy excess to buy & sell their products. Uber, pathao are providing ride sharing. But basically, these are effective in the towns and not user friendly for the farmers or root level users. These are providing only ride sharing like car, motor bike and so on. But they are not providing the facilities

of hiring agricultural related vehicles and machineries like pickup, tractor, harvesting machines and so on. Even we can't imagine of hiring laborer using these existing platforms. So we need such a platform that will provide these facilities.

2.4 Scope of the problem

In our country we face many problem one of the major problem is medicine problem. After our treatment doctors give us a prescription for collect medicine for this medicine we run one place to another place So, we are ready to take this challenge of creating an easy system that would be totally user friendly for the customers and would provide them an all in one platform. They will be able to easily post their ads, buy their products. This will include only the medicine products. When admin insert product customers see this products and easily buy this product after his/her registration and farmers can search for their desired products. They will get the products.
This platform will act as a bridge between the resellers and the customers. So, customers will be able to buy their products to the resellers in the town within a higher price.

Like as the other ride sharing app, we are also providing sharing methodologies. But the difference is here we are going to provide the opportunity of sharing medicine machineries and medicine equipment. Now, Hope so using our web app, they will be able to easily buy a meicine sitting at home, will be able to buy medicine equipment so on.
We are going to provide the daily market price list of medicine products. Hope so it will be more effective for the customers to get right price of their products. Since they will be able to know the actual selling price of their goods, frauds will not be able to deprive them of getting their right price.

2.5 Challenges

- Making our customers capable of using the web app is the biggest challenge.
- Reaching the root level customers to get their info is a big challenge.
- Making the app more user friendly is a big challenge.

CHAPTER 3
REQUIREMENT SPECIFICATION

3.1 Introduction

Requirement Specification is a report that depicts prerequisites for a product item, program or set of projects. Necessities in the product prerequisites determination are communicated in ordinary dialect and are not worried about specialized execution. That is the thing that the outline records are for. In programming improvement, the product prerequisites particular speaks to the consequences of the necessities examination and portrays the prerequisites of the product a work in progress. In spite of the fact that it is customarily made as a record, it can likewise be made in various structures, for instance – an exceptionally basic one – in talked shape [1].

3.1.1 Software Requirement

The choice of software requirement is as per the following. We managed the web-based platform as work gains. We will develop a web-based platform and an app in cross platform. We would need HTML5, CSS3 JavaScript, jQuery and Ajax as the front end. MySQL, PHP, OOP, ajax technology as back-end of our project. Here we also need XAMPP as local server. As the code editor we would need sublime text editor.

3.1.2 Framework, Language, and Tools

We used HTML5, CSS3, bootstrap, JavaScript and Ajax as the front end, MySQL server, PHP, jQuery, Ajax as back-end of our project.

We have developed the app in cross platform using Ionic, jQuery, Ajax, PHP, MySQL.

3.1.3 Hardware Requirement

- Processor – Dual Core
- Hard Disk – 50 GB
- Memory – 1GB RAM

3.1.4 Tools

A product improvement instrument is a program or applications that is utilized to configuration, troubleshoot, keep up projects and applications. The term applies to straightforward projects, which can be associated circumstantially to play out an assignment, much as one may utilize different control devices settle a physical question.

To improve this website, we used the following tools:

- Php storm.
- Brackets
- MySQL database.
- Xampp server
- Browser.

3.1.5 Database

A database is an orchestrated gathering of information. The information are ordinarily arranged to outline basic characters of reality in a way that keeps up means requesting this data. The subsequent database is attempting to enhance this site is MySQL. MySQL is a social database administration framework. Choosing a database is indispensable and more critical than some other things for building up a task. We like MySQL in light of the fact that it is the most appropriate database for us for a few reasons. Those reasons will be given underneath. MySQL database is smart about sparing any information that we need. It will let you rapidly store and recover data and numerous site guests can rehearse it at one time.

- MySQL is a database server.
- It is ideal for both small and large application.
- MySQL Supports standard SQL.
- It is free to download and use.

3.2 Business Process Modeling

Business process modeling is system's engineering is the activity of representing processes of an enterprise, so that the current process may be analyzed, improved, and automated.

BPM is typically performed by business analysts, who provide expertise in the modeling discipline by subject matter experts, who have specialized knowledge of the processes being modeled or more commonly by a team comprising both. *[4]*

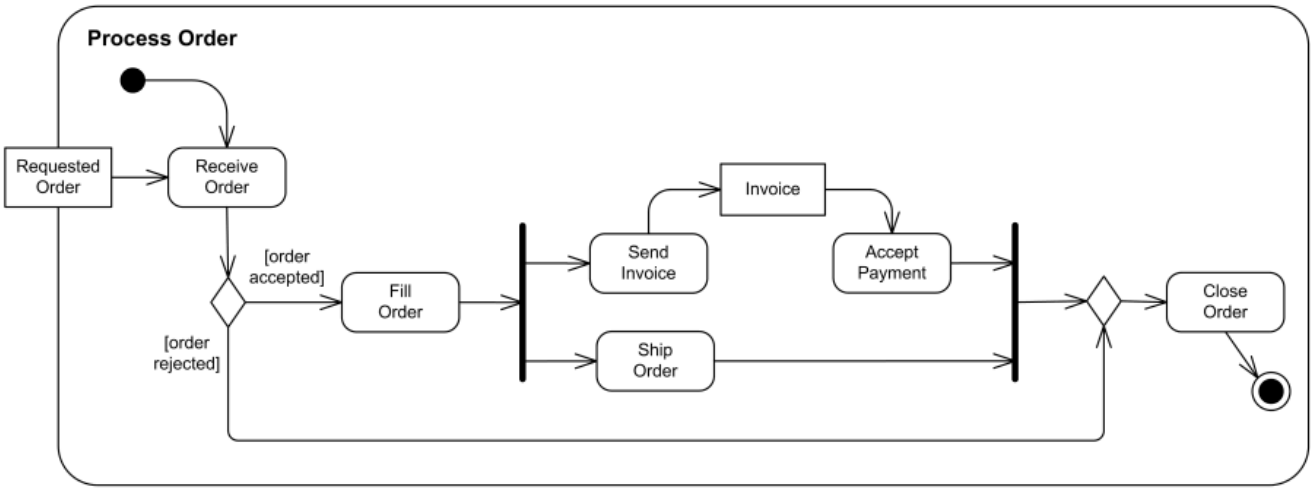

Figure 3.1: Business Process Modeling Diagram

3.3 Use Case Modeling and Description

In software and systems engineering, a use case is a list of actions or event steps that defines the interactions between a role and a system to achieve a goal. The actor can be a human or other external system. It is used because it shows the interaction logic between the objects in the system in the time order that the interactions take place

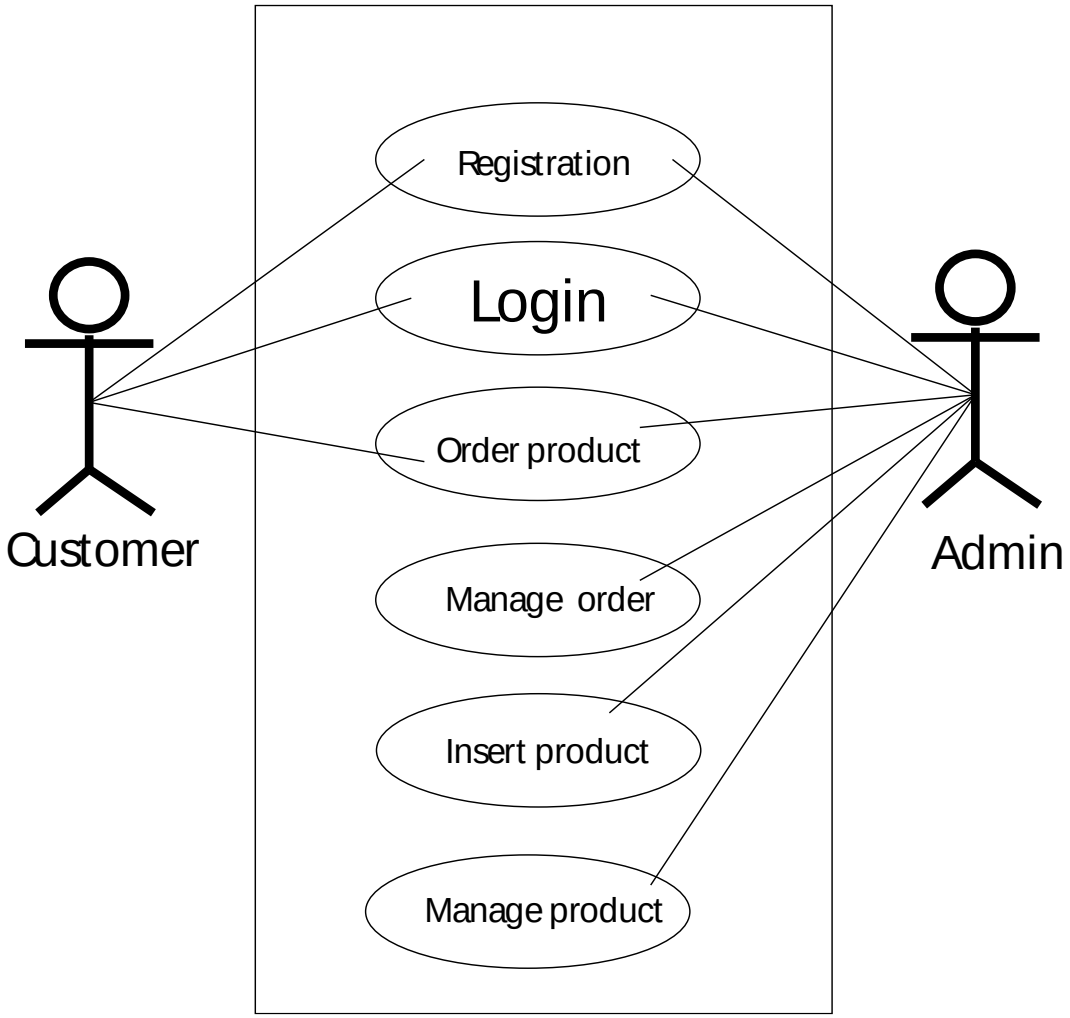

Figure 3.2: Use Case Diagram of general user's activity

Chapter 4
DESIGN SPECIFICATION

4.1 Front-end Design

An outline determination is a point by point record giving data about a planned item or process. For instance, the outline detail must incorporate every vital illustration, measurements, ecological variables, ergonomic components, stylish elements, support that will be required, and so forth. It might likewise give particular precedents of how the outline ought to be executed, helping other people work legitimately (a rule for what the individual ought to do) [2].

The front-end design would include HTML5, CSS3, JavaScript, jQuery&ajax technology.

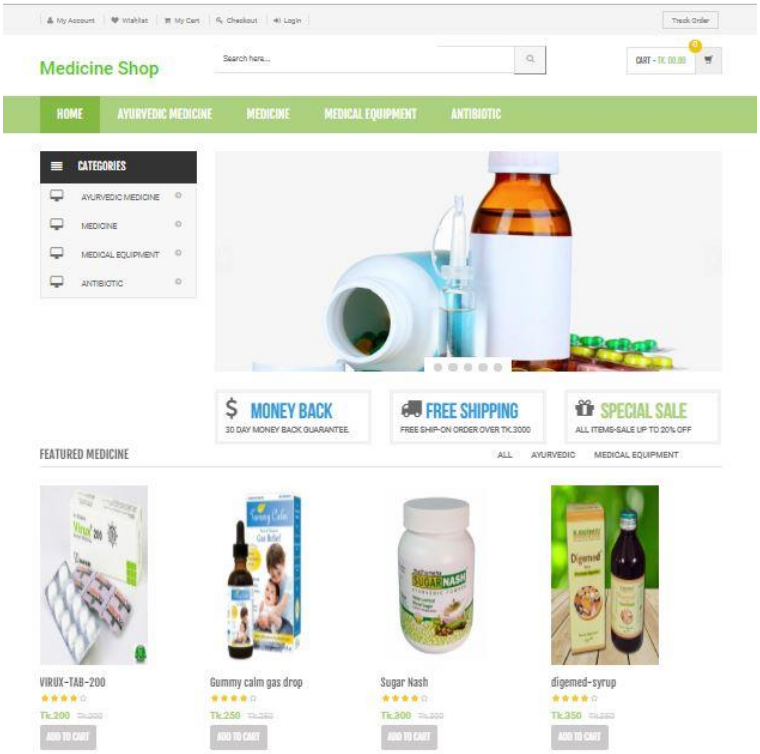

Fig 4.1.1 Home Page

We will have two front end design. One for our website and another for our app. We are mainly focusing on the app. The web view will be available in two languages: Bangla and English. Here will have two front end users: service provider and service seeker.

Our app will be available only in Bangla and it will be more user friendly for the farmers. It will contain voice direction of how to use & what to do in every pages of our app.

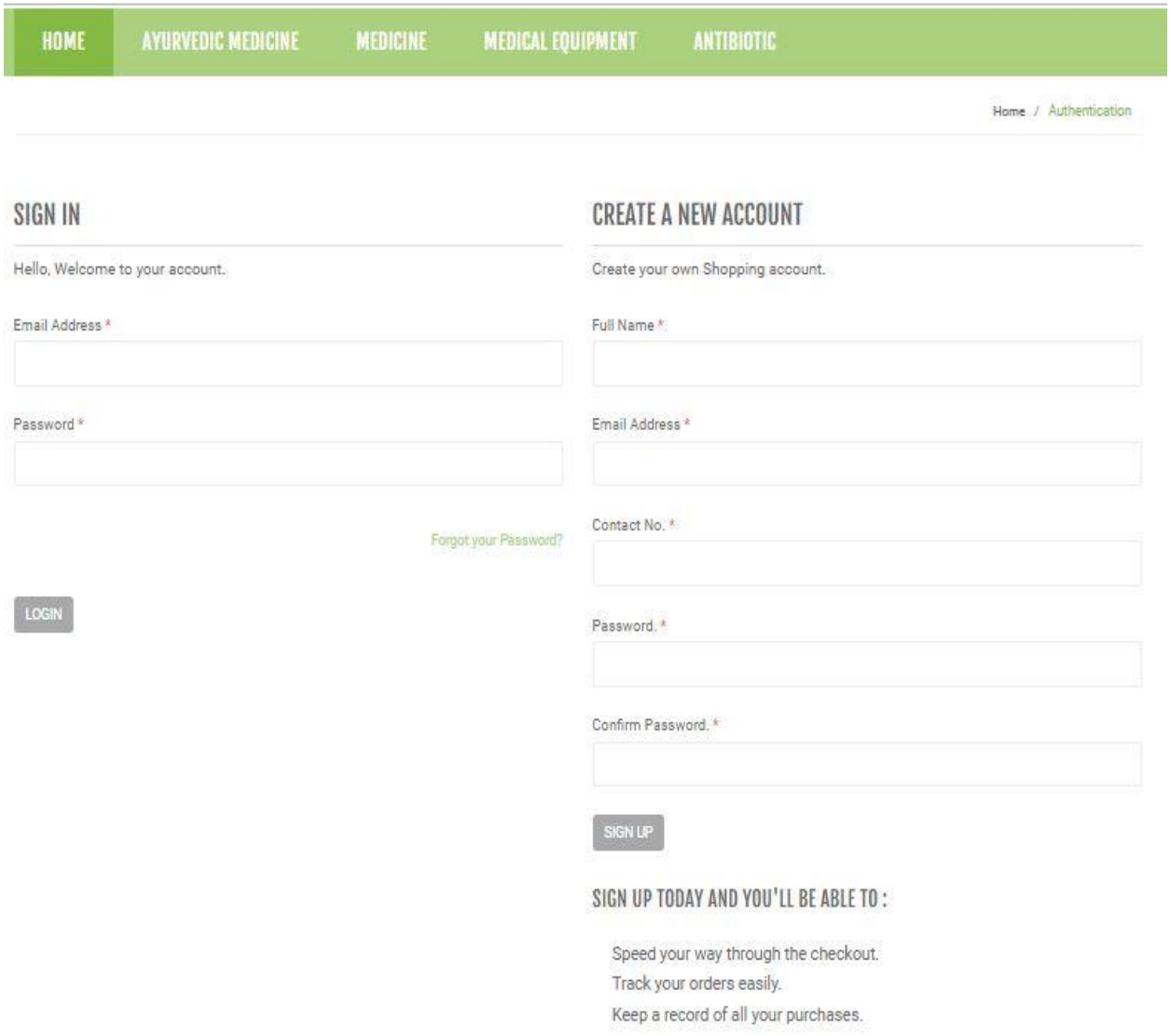

Fig 4.1.2: A part of registration page

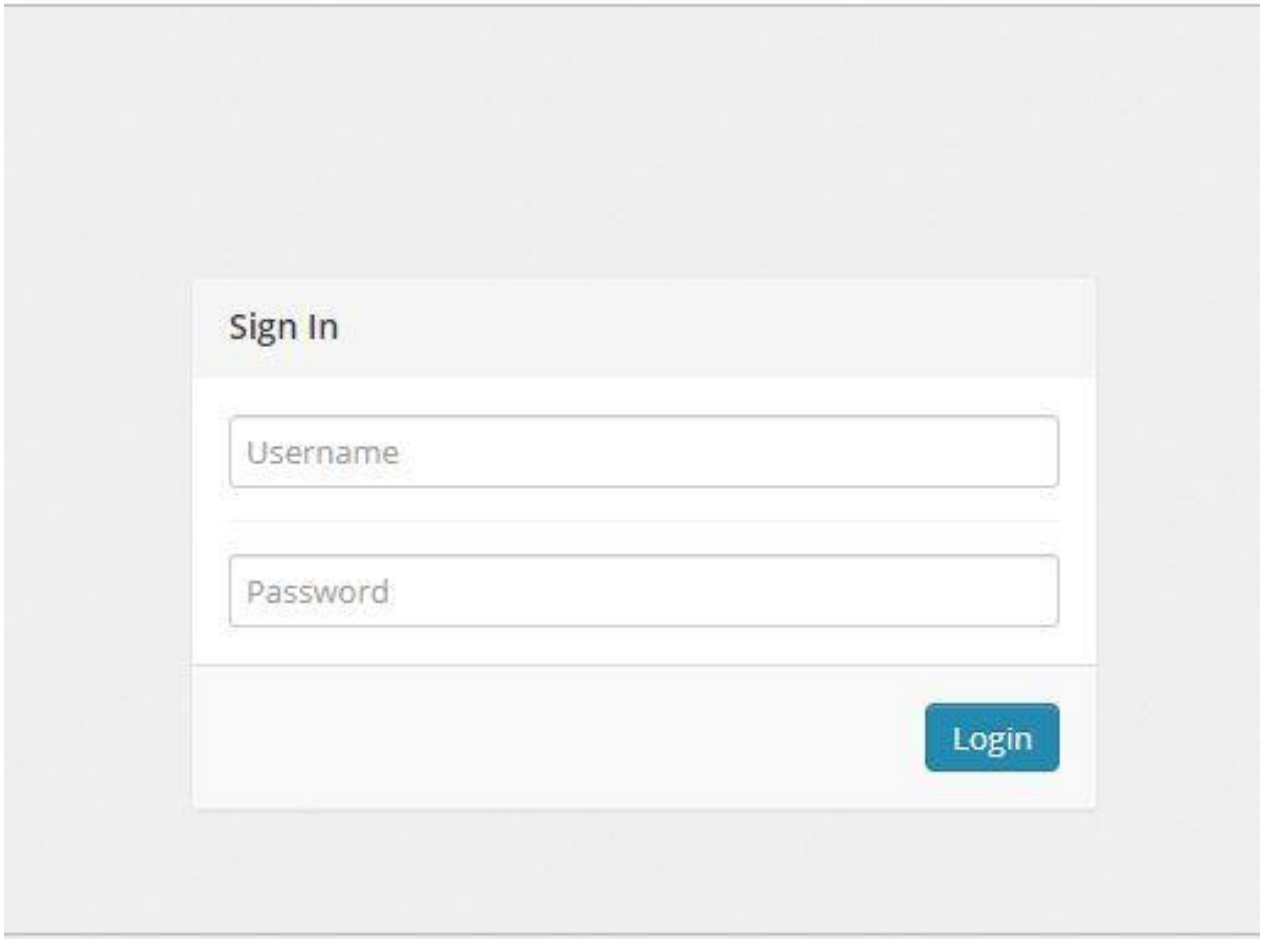

Fig 4.1.3: Login page for admin

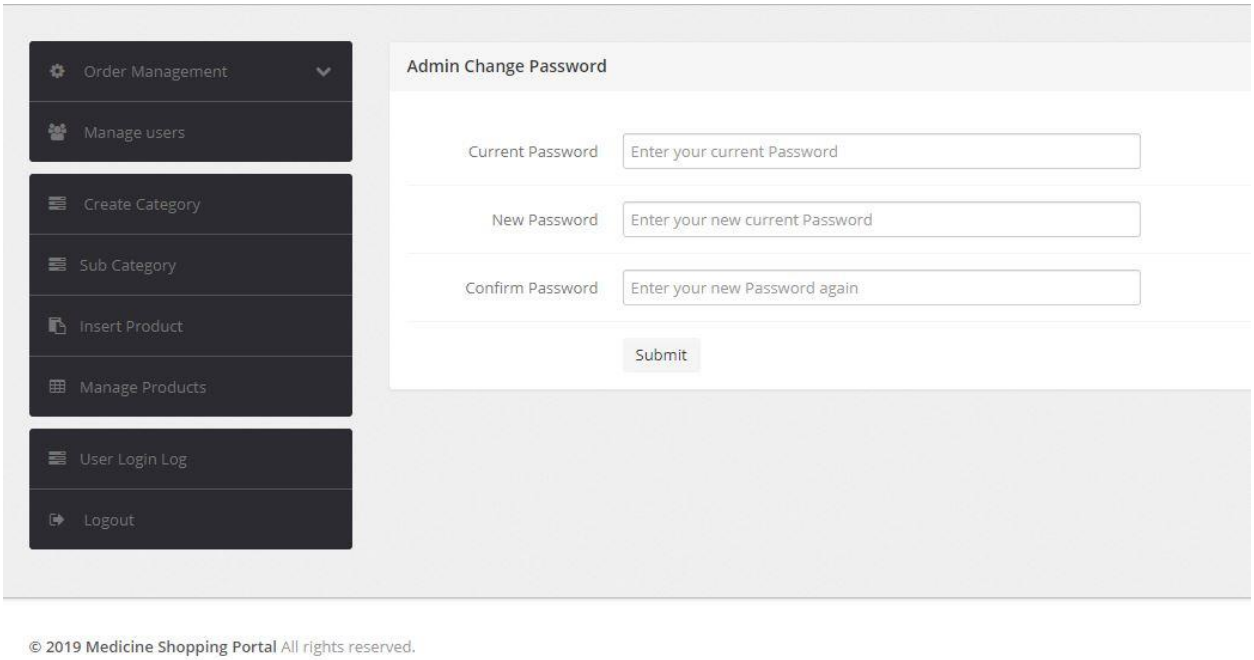

Fig 4.1.4: Admin Panel Dashboard Design.

Admin panel: We would control all the functionality of our system using the admin panel for both website and app. Any categories and sub categories of products can be easily dynamically added using admin panel.

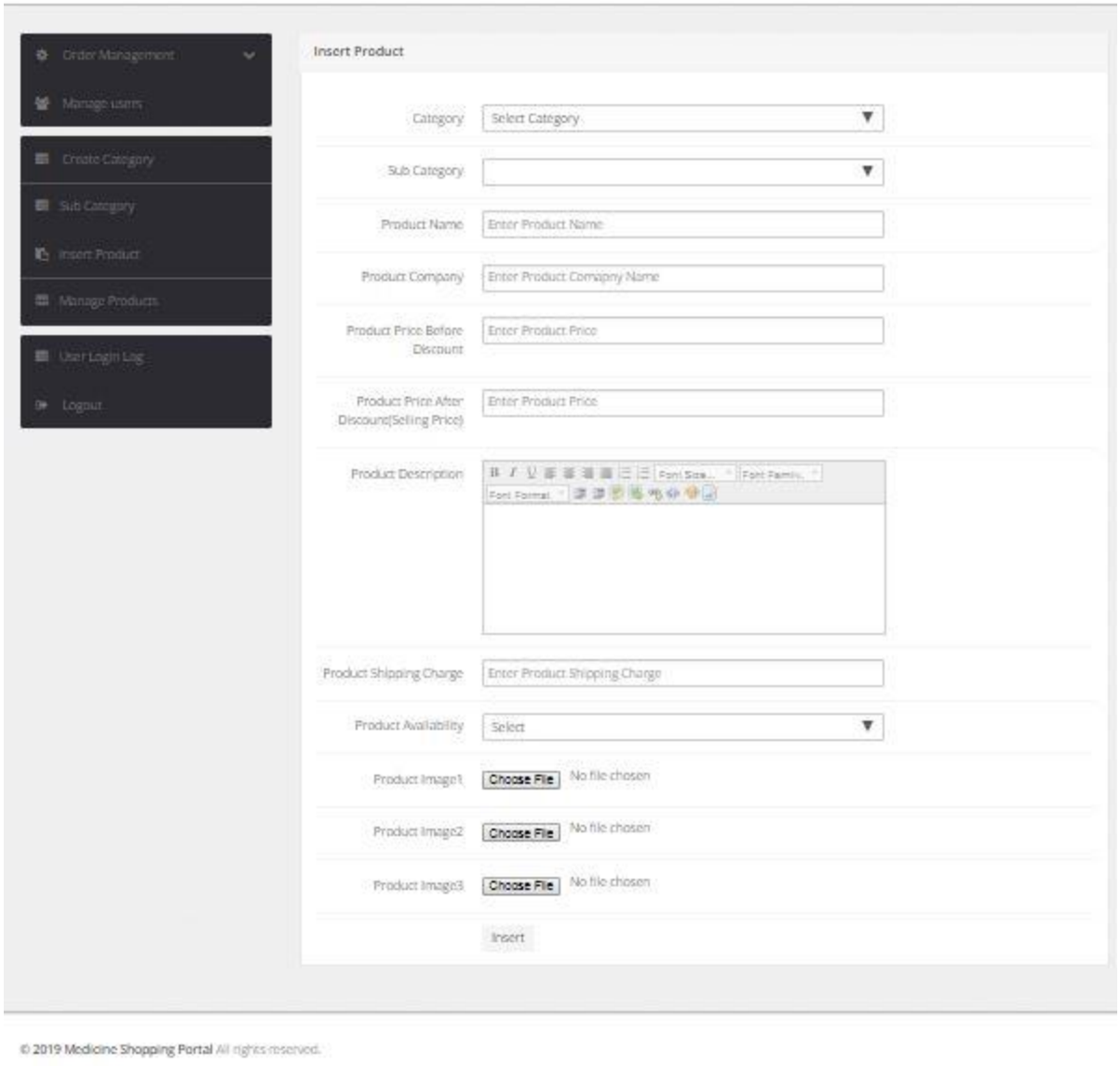

Fig 4.1.5: Insert product page.

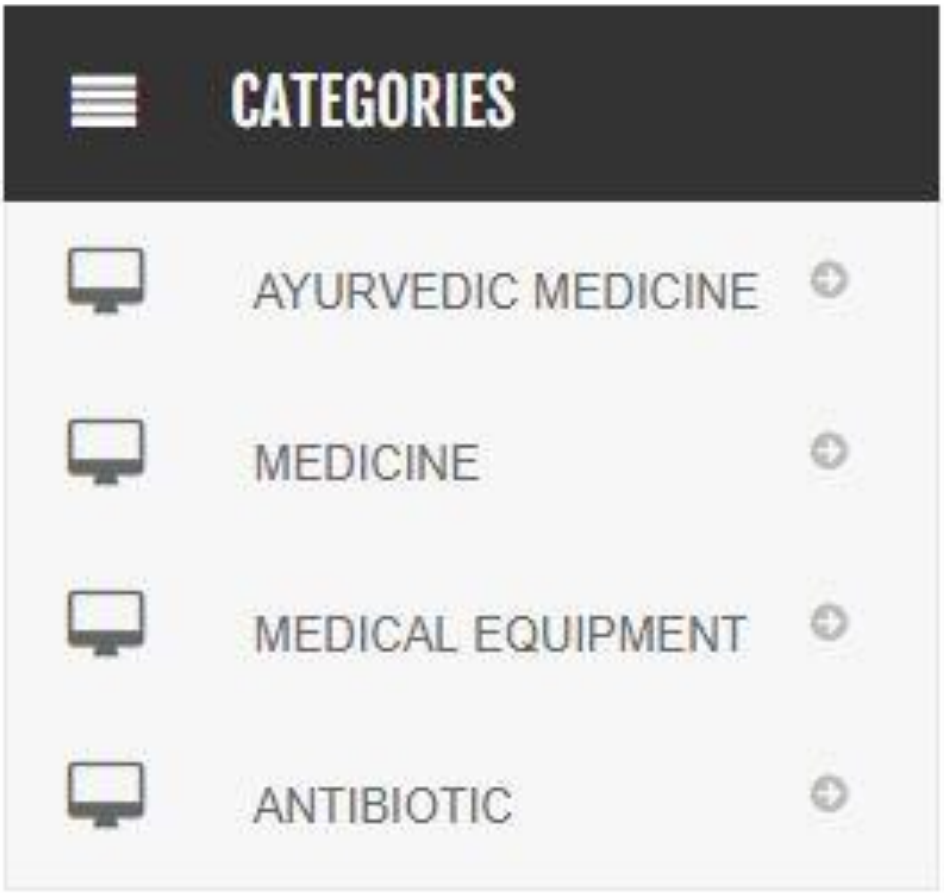

Fig 4.1.6: categories page of medicine

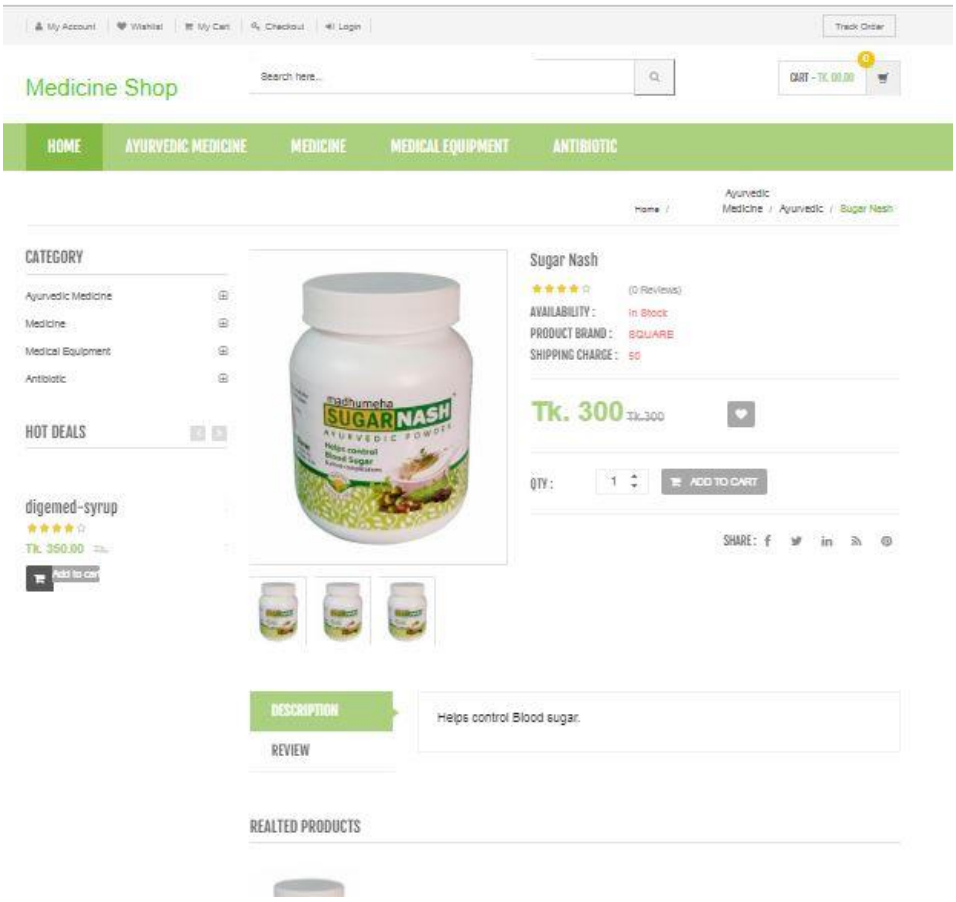

Fig 4.1.7:product details page

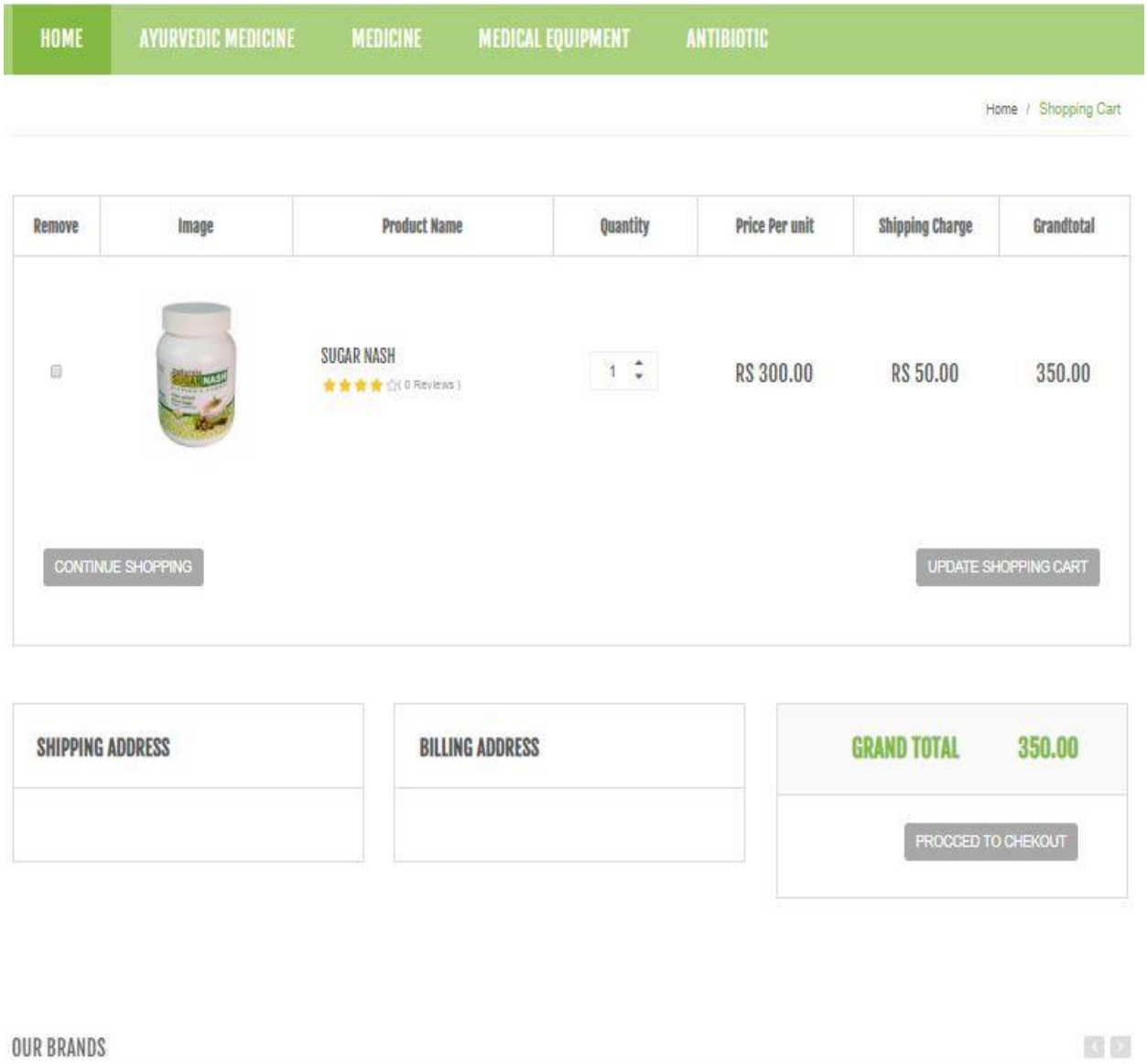

Fig 4.1.8: shopping cart page

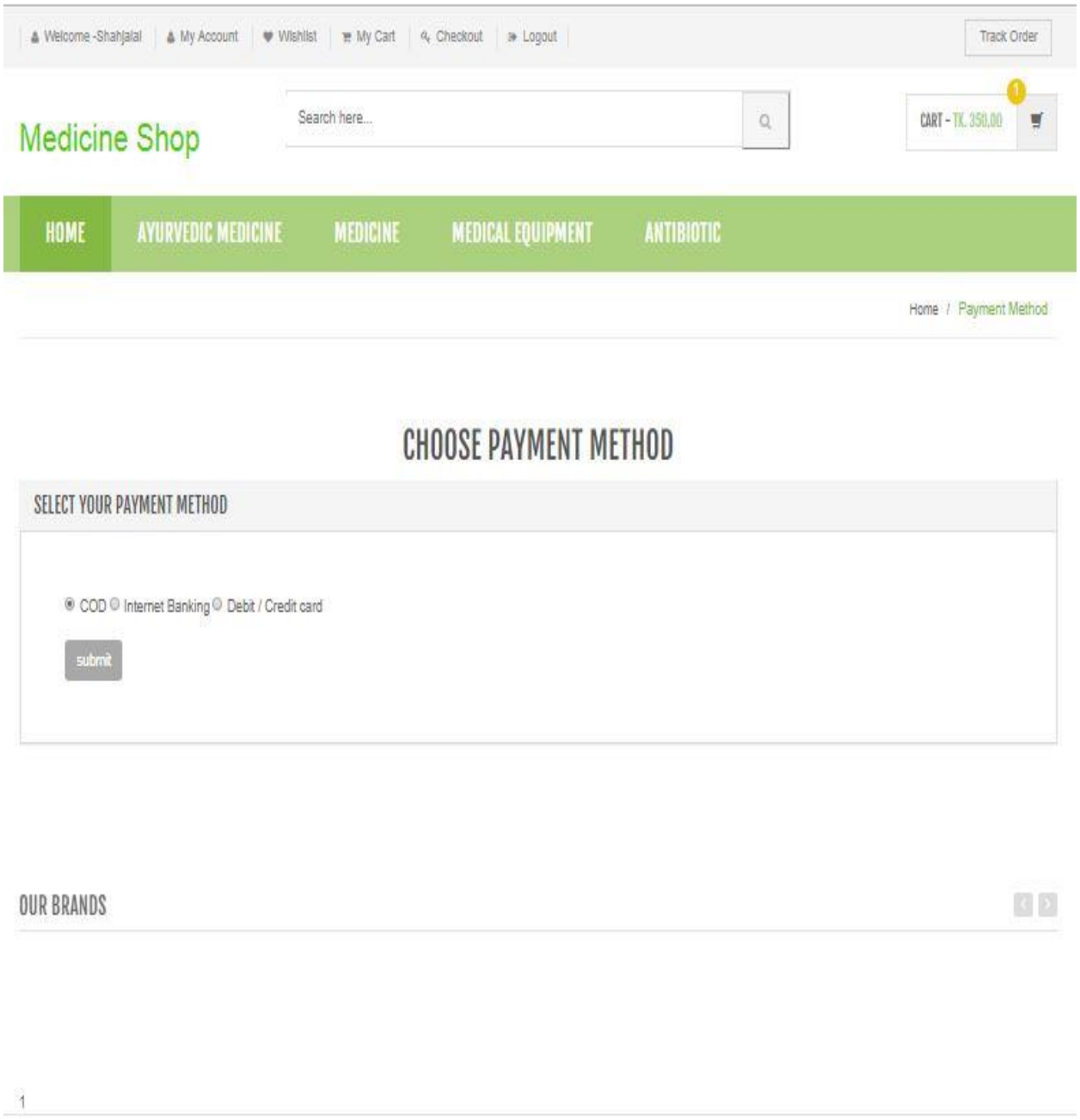

Fig 4.1.9:Payment method page

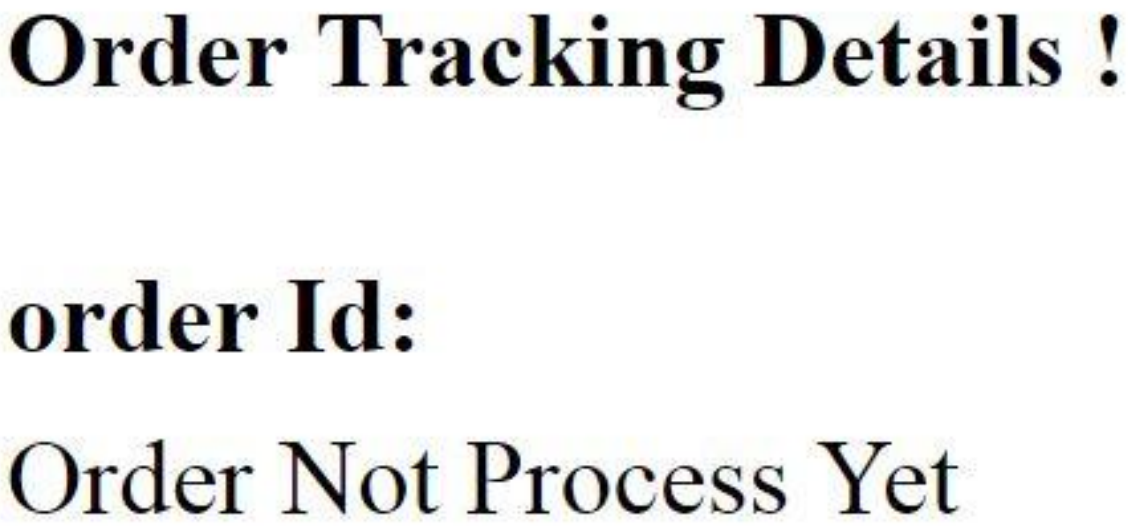

Fig 4.1.10:Order track

4.2 Back-end Design

The back-end, or the "server-side" design is, actually how the site works, updates and changes. This refers to everything the user can't see in the browser, like databases and servers.

Back-end design deals with things like security, structure and content management.

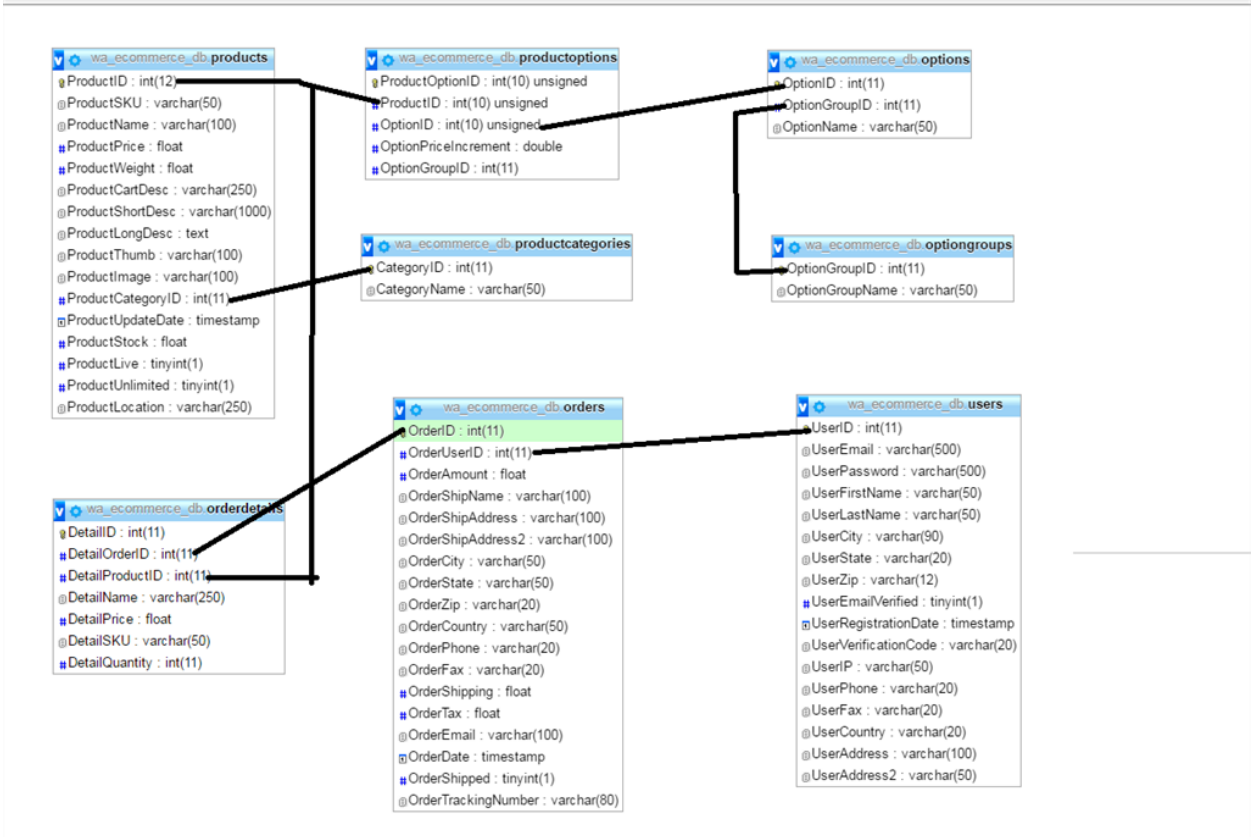

Fig 4.2: Database Design of medicine shop

4.3 Interaction Design and UX

Interaction Design is the blueprint of the participation among customers and things. The target of association arrangement is to make things that help the customer to achieve their goals in the best way that could be accessible

UX Design implies customer experience plan which is the path toward improving customer satisfaction by keeping up the accommodation, accessibility, and joy gave in the participation between the customer and the thing.

It isn't just stressed over the wise materials yet moreover the way in which certain materials look, feel or make to pass on specific yields.

4.4 Implementation Requirements

Implementation requirement is the procedure of execution an arrangement, a strategy, or any plan, thought, demonstrate for building a framework. The activity must pursue any fundamental reasoning with the goal for something to really occur.

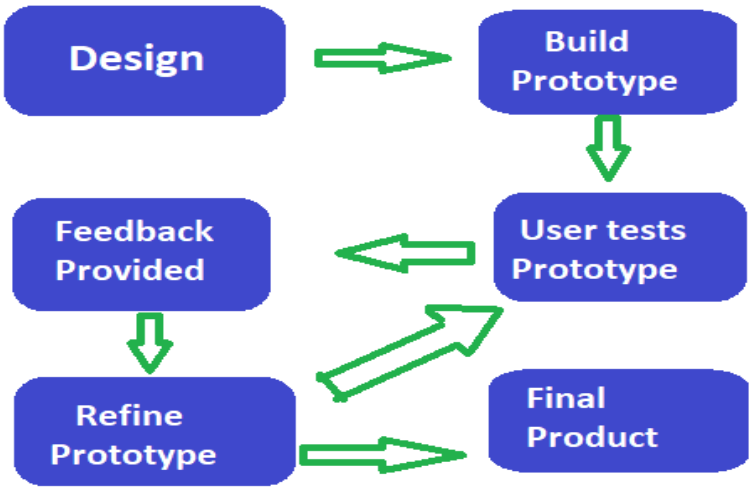

Fig 4.3: Requirements of Implementation

Our System is produced so it can expeditiously be changed in light of end-customer and customer input. We fabricate the database, UIs and working limits. After the customer surveys the model he suggests redesigns. This hover continues until the point that the customer is satisfied to implement this app, we would have to interact with the root level users. We would like to train them how to use this system and what the benefits of using this system are.

CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Introduction

Implementation is an imperative part to deal with an application. It enhances to improvement of the key frameworks for applying the arrangement. After usage an arrangement we have to build up the procedure as indicated by the framework.

Before implementing the system, we would have to test the system using demo data. So we have to collect a lot of demo data and test the system using those.

5.2 Implementation of Database

We have used MySQL database in our system for both the website and mobile app. We have used a central database that would serve both the website and the app. It would hold all the data of our system. Before implementing the app to the real users, we would test the functionality of the database whether all the functionalities and relational tables are working properly. We would insert at least 300 products add, around 200 agricultural crop's disease and their cures. We also would register 40-50 users to test the accuracy and security of the system.

5.3 Implementation of Front-end Design

Implementation of front– end configuration is one of the fundamental procedures for starting a web application. Firstly, we would like to implement our system among some of our known persons to test whether the front-end functionalities are working properly. We would test how much load it's being able to keep. We would collect their feedback and will try to improve the design and functionalities according to their feedback. We will try our level best to make the front-end design more user friendly.

We have utilized the accompanying apparatuses for actualizing front-end plan of our framework.

- HTML (backbone of any website development process).

- CSS (demonstrates the presentation aspect of the site and allows a web application to have unique look).
- JavaScript (transform a static HTML page into a dynamic interface).
- Bootstrap (a front-end framework containing HTML- and CSS-based design templates).
- jQuery (a cross-platform JavaScript library designed to simplify HTML).

5.4 Implementation of Interaction

Implementation of communication is finished considering the prerequisite of clients of a system. We have thought about the accompanying criteria for executing the cooperation of our framework.

- User satisfaction.
- Making the system easy to navigate.
- Having a comment section by creating a feedback option.

5.5 Test Results and Reports

Test ID	Date	Module	Test Cases	Test Data	Pass/Fail	Status of Bug	Comments
1	11/04/19	Login	Login as Admin	Admin's username and password	Pass	N/A	Only login panel for Admin

Table 5.6: Registration

Test ID	Date	Module	Test Cases	Test Data	Pass/Fail	Status of Bug	Comments
1	11/04/19	Registration	User Registration	User's name,and password	Pass	N/A	Registration for the users

CHAPTER 6
CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

We have endeavored to complete the project and satisfy the reason for building up our venture. We are hopeful with our creation. Where everyone is thinking of creating system that would be beneficiary to them, we have thought of our farmers those are the driving force of our economy. Though they are contributing for our country, they are being deprived of their actual prices. Our aim is to stand beside them to help them to get the real price of their products and to connect them with the technology. We know well that the task is not so easy to make them capable of using this system but we are hopeful. Once our farmers weren't capable of using even mobile phones, but now they are using it. So why not they will be able to use this system? Our farmers will not remain uneducated all the years. After few years, they will be more connected with technology. It would be satisfactory if a single farmer gets benefited using our system.

6.2 Scope for Further Development

Our project can be enhanced with more features and contents to help the users. We have some planed about some features to be implemented in future to make the system easier and user friendly. Some of these features are discussed below:

- Speech to text for taking the input in various forms to make the system more usable for the farmers.
- GPS system for tracking the location of the vehicles
- Over all instruction of digital cultivation. Our system will automatically calculate the required amount of fertilizer of farmers land in details. (Farmers will need to provide land details)
- Soil test using our system.

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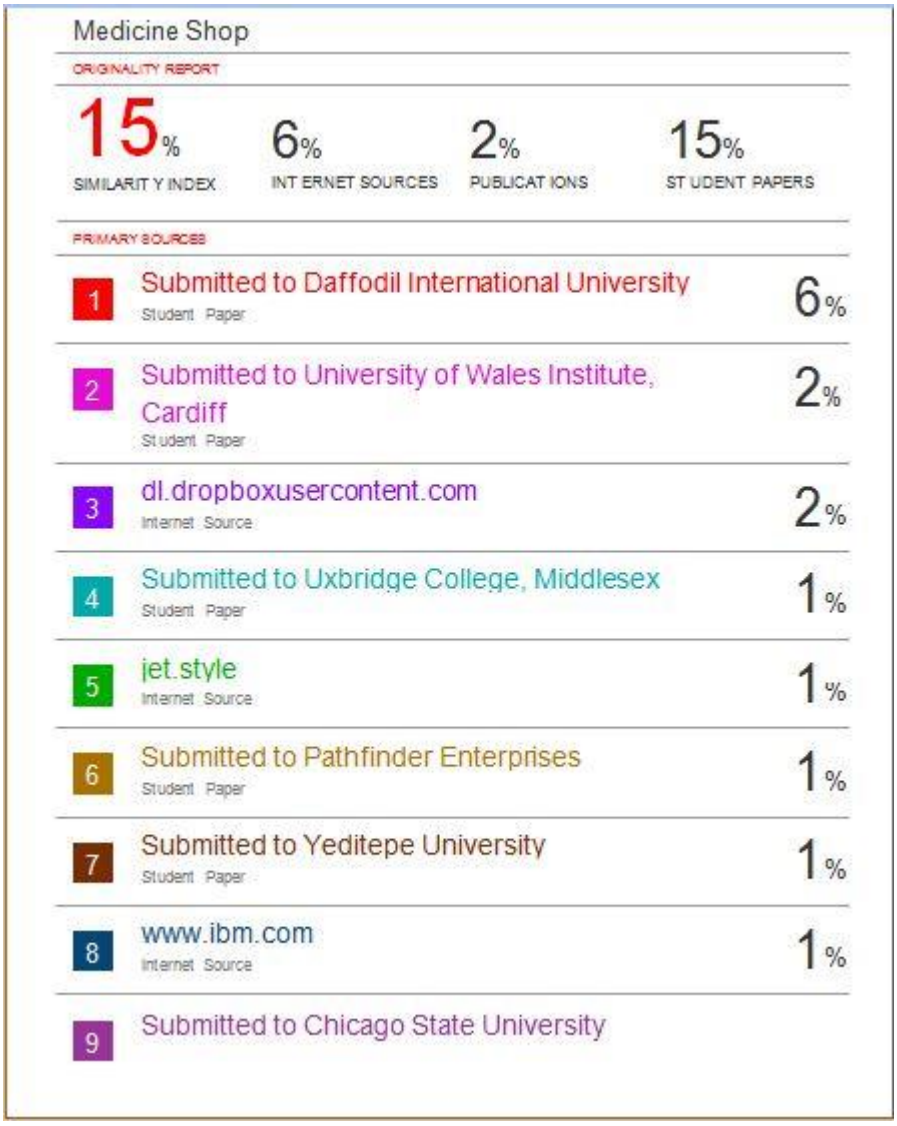

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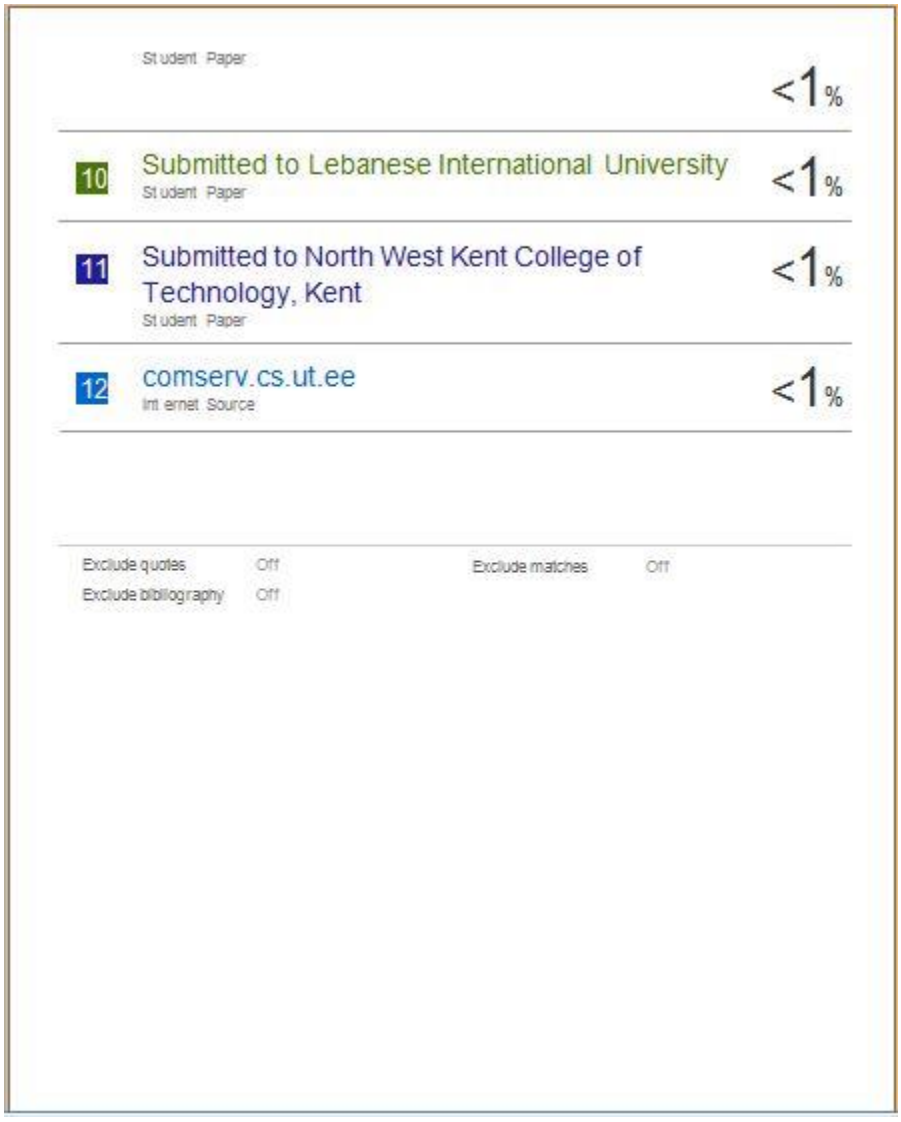

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