SHOHOZ SHEBA

BY

Mahedi Hasan
ID: 191-15-12172
AND

Sayed Anwar Rifat
ID:191-15-12927
AND

Md. Nayem Hassan
ID: 191-15-12498

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

Supervised By

Md. Assaduzzaman
Lecturer
Department of CSE
Daffodil International University

Co-Supervised By

Md. Sazzadur Ahmed
Assistant Professor
Department of CSE
Daffodil International University

DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

FEBRUARY 2023

APPROVAL

This Project titled "SHOHOZ SHEBA", submitted by MAHEDI HASAN, SAYED ANWAR RIFAT and MD. NAYEM HASSAN 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 will be held on 04/02/2023.

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Dr. Touhid Bhuiyan
Professor and Head
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner

Subhenur Latif
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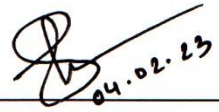
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Md. Sabab Zulfiker
Senior Lecturer
Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

External Examiner

Dr. Md. Sazzadur Rahman
Associate Professor
Institute of Information Technology
Jahangirnagar University

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DECLARATION

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

Supervised by:

07.02.23

Md. Assaduzzaman
Lecturer
Department of CSE
Daffodil International University

Co-Supervised by:

Md. Sazzadur Ahamed
Assistant Professor
Department of CSE
Daffodil International University

Submitted by:

Mahedi

Mahedi Hasan
ID: -191-15-12172
Department of CSE
Daffodil International University

Rifat

Sayed Anwar Rifat
ID: -191-15-12927
Department of CSE
Daffodil International University

Nayem

Md. Nayem Hassan
ID: -191-15-12498
Department of CSE
Daffodil International University

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ACKNOWLEDGEMENT

First we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project successfully.

We really grateful and wish our profound our indebtedness to **Md. Assaduzzaman**, **Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of "***Web Development***" to carry out this project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior draft and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Dr. Touhid Bhuiyan**, and Head**,** Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

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

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ABSTRACT

Shohoz Sheba is a very beneficial web application for anyone who wishes to request household services like as plumbing, electronic repair, moving service, home cleaning , painting service and electrical maintenance. When a person shifts from one location to another since nowadays everyone wants to save time and address their problems as quickly as possible. As a result, online home service is quite advantageous to consumers. In our system, the user requests a service, and the administrator assigns the technician to conduct the service[1]. As previously said, Shohoz Sheba has numerous categories and services. Users in need of services can register on this website and search for service providers based on their circumstances. There, the customer is given information about the service provider's precise locations as well as a phone number through which the user can contact them. This allows users to quickly obtain the necessary home services without any difficulty or delay[2] . Users can converse by using our website's built-in chat feature. Anything can be asked, and the administrator will respond. There is an admin panel on our website. Administrators have access to all system information, including order, delivery, User info etc. The order is processed and then made ready for service after the admin has approved it.

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CHAPTER 1
INTRODUCTION

1.1 Introduction

In our daily life we have to face different many issues in our home. Those problems cause us extra time and an extra burden on our heads. Suppose a fan or TV is damage in your house. So to fix it you need to take it to servicing or any electrician, it may seem like your time and understanding, but just think what if an electrician comes to your house and finds your solution and fixes it? With this in mind, we've launched an online-based service called Shohoz Sheba. Any electrician of your choosing can resolve your issue. In a nutshell, Shohoz Sheba is an online marketplace where customers can connect with Taskers, or local workers, to get help right away with errands. Through our website, we will supply services to a service provider. There is an issue with your home. You can tell us about your issue immediately. We will send a qualified and experienced professional to your home. Our main goal is to give a customer with complete service and to assist him according to his needs. [3].

1.2 Motivation

We have many problems at home, office, workplaces many times. Examples of water line problems, electrical problems, cleanliness of house, repair of house and house. We will solve this problems with the help of this project. So our motivation is to resolve such issues.

1.3 Objective

We are almost familiar with the problems at home and office and other places. For this we have to spend a lot of time. Even when there is a lot of money, manpower is not available. We will try to solve this problems Through this project. We will keep all kinds of stuff. Such as technician, plumber, mechanic, sweeper, maid etc.

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1.4 Expected Outcome

The main goal of Shohoz Sheba is to make your service easier. Shohoz Sheba will also work as home servicing. Because Shohoz Sheba can swiftly and effectively resolve any household issue. One of the benefits that a customer can get from a simple service is time, money and stress relief. We have recently received some advice from some people and we have received some reports from them that they are constantly facing various problems in a home. They are wasting their time looking for them in the local market to fix a service center or a fan and in this they are wasting all sorts of time and thinking about their problem we have always thought about how to solve it We have come up with this service called Shohoz Sheba. We will be providing services to a service provider through our website. There is a problem in your house. You can tell us directly about your problem. We will send a skilled and proper experienced person to your house. Our main goal is to provide full service to a customer and to serve him according to his needs.

1.5 Project Management and Finance

whenever we completed nearly all of the tasks, this project will be released as open source. Therefore, we may always contribute and add any new features if they are needed. Our program requires a backend server therefore, money must be paid to pay the expense. Despite the fact that the program is produced successfully, the cost will be quite[17] inexpensive, there will be very little need on the internet.

1.6 Report Layout

In the first part of this project, we covered all the fundamental details about the project and the services it would use. We recently received reviews from some people about whether our project is timely and whether they are interested in using our project and whether it is easier for us than others who have these related projects. We extensively covered the difficulties and issues associated with our project in the second chapter and made an effort to address every issue we discovered. We go through the three stages of background in another chapter 3. We also talk about the definition of requirements and try to summarize

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user needs. We discuss the issue we solve and the resources we use to complete the project in chapters 4 and 5. A few conclusions and suggestions for more research are included in Chapter 6

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CHAPTER 2
BACKGROUND

2.1 Preliminaries

We often face some problems in our daily life. Especially when we come to Dhaka to study, almost all of us are bachelors, so we have all faced or are facing such problems. Plumbers, electricians, technicians, mechanics, sweepers, maids are not available in this busy city to solve these problems. Even if they are found again, they are not approached due to lack of time. So in order to solve these problems we have taken the initiative to create our project "Shohoz Sheba". Technology is advancing a lot day by day. Through Shohoz Sheba people will connect with plumber, electricians, technicians, mechanic, sweeper, maid sitting at home and easily can solve these daily problems of home and office.

2.2 Related Works

Ever since people started living with modernity, people have become eager to get digital and online based services to solve any kind of problem .That continuity has changed over time to make things easier. The project we are working on is basically a home service. If we are looking at how many more service related projects there are, they are providing services according to the needs of their customers. However, we have lately realized that their methods of service are either out of date with the present digital era or have significant flaws. We have tried to bring some more changes and some more innovations in these systems and for that we are going to work with a special focus on the digital needs of the customer and the digital Bangladesh [20].If we review it well, we can see that the projects that are compatible with the project we have worked on are Digital Man, Sheba xyz, Cleaning BD, etc. We've thoroughly reviewed their website and their work, and we've come to realize that we'll make our project easier and more user-friendly by providing some updates and digital services from the way they're serving[21]. So that our project can meet the needs of customers as well as digital.

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2.3 Comparative Studies

There are a few more such projects that we are working on that provide services just like ours. If we look at other projects we can see that they have provided different types of services. We are always trying to provide some exceptional services. For example, if we notice that the type of service they provide is significant AC service, Electrical service, etc. But out of all our services, we are interested in providing some help full i.e. medical emergency oxygen and essential human essential medical equipment directly through our project. In addition, we will provide maid service. Considering this, we are each of them with some exceptions and with time and modernity we hope to be ready to offer our service.

2.4 Scope of the problem

Our main purpose is to solve everyday problems. Initially the project meant for solve everyday home problem. But there are many problems in them which can be seen in homes, offices, courts, schools and colleges etc. So with the help of our project those problems can be solved in office-court, school-college also.

2.5 Challenges

Our objective in creating the Shohoz Sheba application is to give the users a safe and convenient environment. Another difficult task is designing an engaging user interface. Additionally, because We are establishing platform independence for this application, we need to offer a reliable backend to enable smooth operation across all platforms. We must offer a feature-rich admin panel because this project will be dynamic, preventing the admin from having to communicate with the backend server.

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CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

The following figure 3.3.1 shows Business Process Model

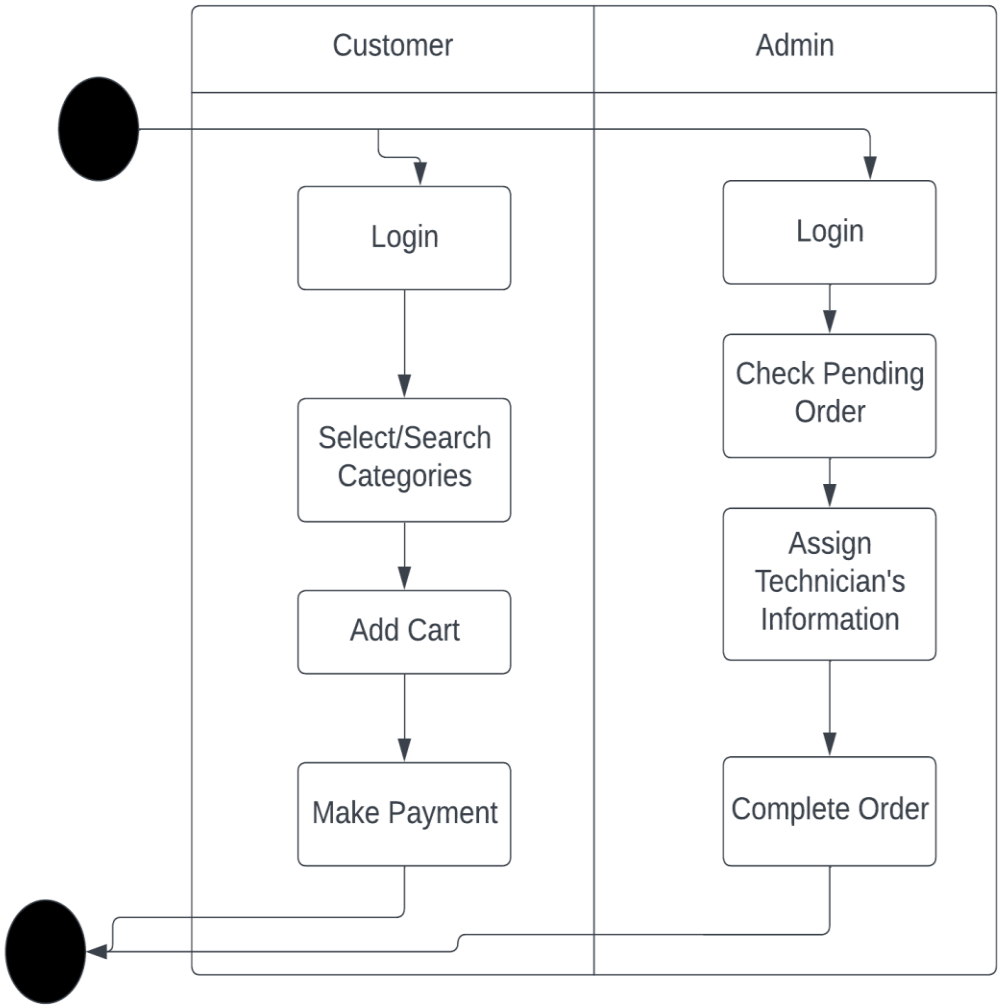

Figure 3.3.1.: Business process modeling

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3.2 Requirement Collection and Analysis

The gathering of necessities is a crucial step in every project. Gathering requirements is essential for the project on top of that., nonetheless, it is equally important for the project management procedure. The most crucial stage of a project is requirement collecting project. The project runs the risk of not gathering all the information needed to provide an answer if the project team fails to do so. Future conflicts and disagreements may stem from this. Consider requirement gathering as one of the project team's primary responsibilities as a result [18]. In order for us to get the project requirements as quickly as feasible. After that, we got to work.

3.3 Use Case Modeling and Description

Most simply, a use case diagram depicts a user's with systems that illustrate connections between users and different use cases that entail user involvement [4]. A use case diagram may be used to identify distinct user types, systems, and use cases. It is frequently supplemented by other types of diagrams as well. Describe and enumerate the functionalities of our software using use case diagrams according to Figure 3.4.1.

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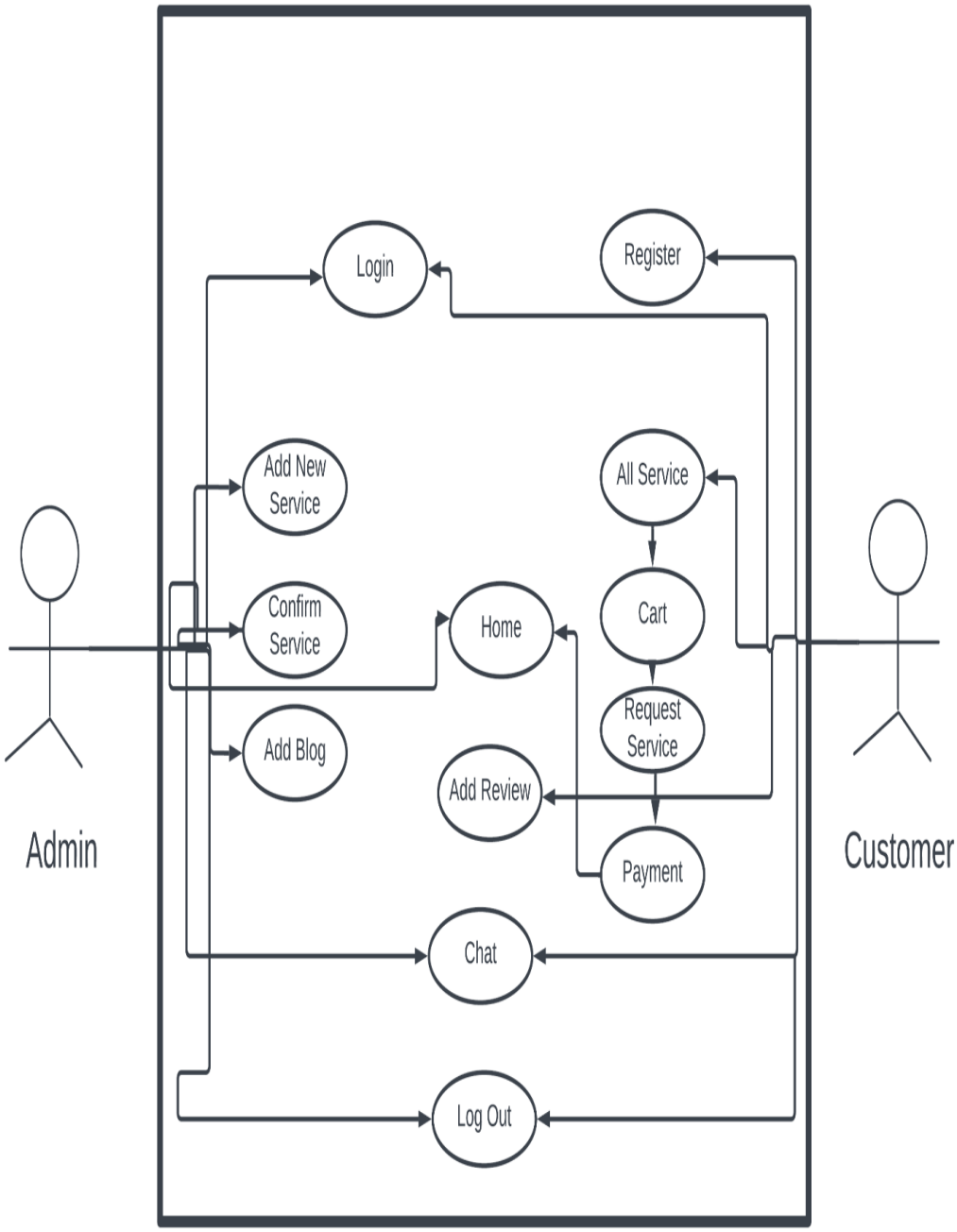

Figure 3.4.1: Use case diagram

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3.4 Logical Data Model

The database for our Web application is built consistently so that server-side performance will be good and database queries will be easy. A logical data model represents an information domain's abstract structure. Figure 3.5.1 shows a logical data structure.

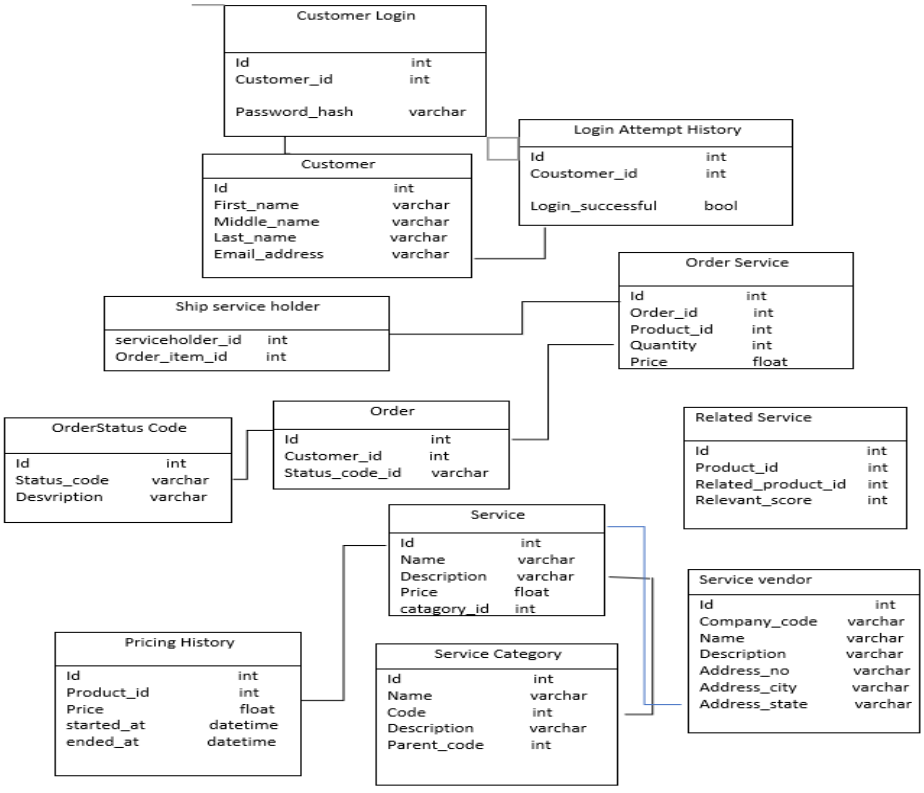

Figure 3.5.1 Logical Data Model

3.5 Design Requirement

determining a system's architecture, components, modules, and interface, and data to ensure that it satisfies a specified set of requirements as system design. This chapter displays the general system design for our program, together with its use case diagrams, flowcharts, and multidimensional data language. the whole This project's design is user-friendly. The initiative is also thought to make novel ideas approachable. In the future, when time allows, any quiet editing is permitted.

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CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

The languages used for front end development are HTML, CSS, bootstrap, and JavaScript. It is known as front-end web development, or the client side of the application, when these languages are used for a website or online application so that users can view them directly and interact with them [8]. The front end is the part of the website that users can see and interact with visually. Performance and responsiveness are the two main objectives for the front end. The website's developer must ensure that no component is acting strangely. Additionally, the developer must ensure that the site is accessible on all device sizes. The challenge When it comes to front-end development, the methods and tools used to create a site's interfaces are evolving continually, needing continuous industry controlling on the part of the engineer.

4.2 Back-end Design

Laravel is a web framework built on PHP that helps businesses build high-quality websites. It provides functional web designs to address problems and practical coding work shortcuts. By reusing and modifying the programs, we may use this framework to develop a wide variety of websites. We choose Laravel because it is the ideal tool for designing these programs and for creating huge, reliable websites or web apps. Due to its exceptional features and great utility, it is the most favored and popular PHP framework worldwide[10]. Using Laravel has several advantages that we may take use of. With its PHP framework, Laravel offers simple authentication and an intuitive user interface. Laravel has a timely moderate packing method for dependency management, which is an added benefit. Through Laravel, we can create dynamic websites at a low cost. Another crucial justification for using Laravel technology is that it offers developers hassle-free syntax and easy coding development, both of which are very helpful.

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4.3 Interaction Design and User Experience (UX)

Registration Page:

The following figure 4.3.1 shows Registration Page

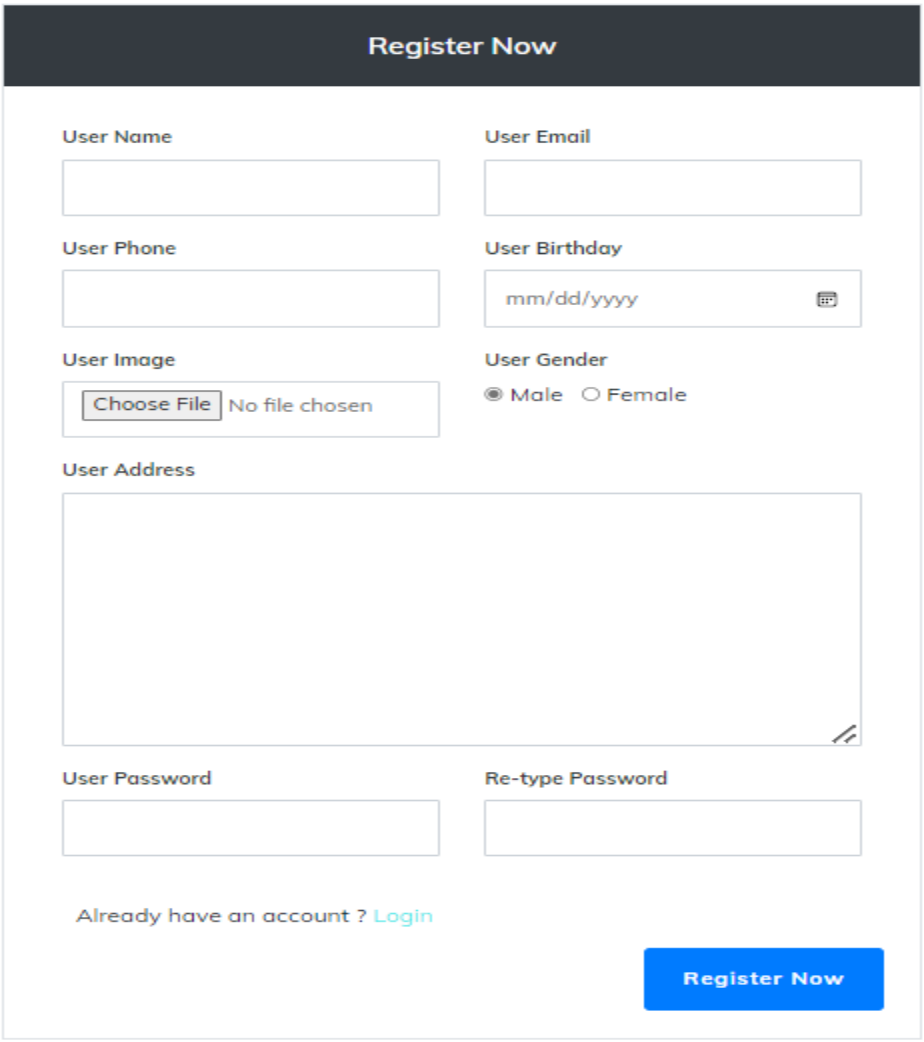

Figure 4.3.1: Registration page

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Login Page:

The following figure 4.3.2 shows Login Page

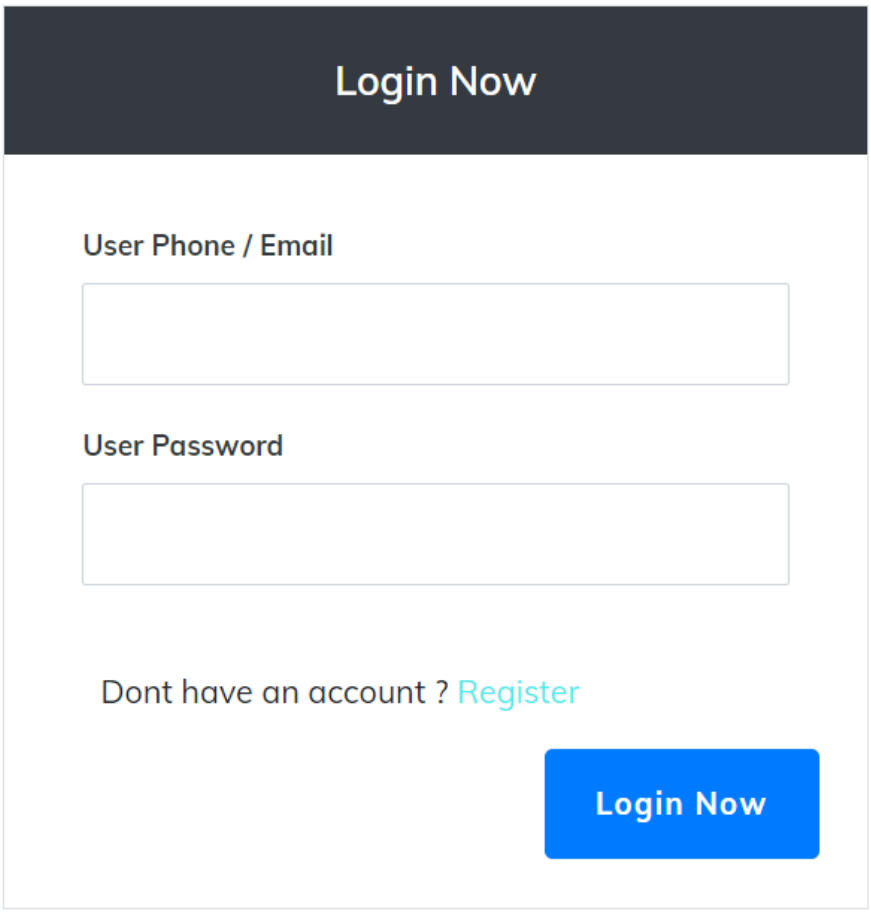

Figure 4.3.2: Login page

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Home Page:

The following figure 4.3.3 shows Home Page

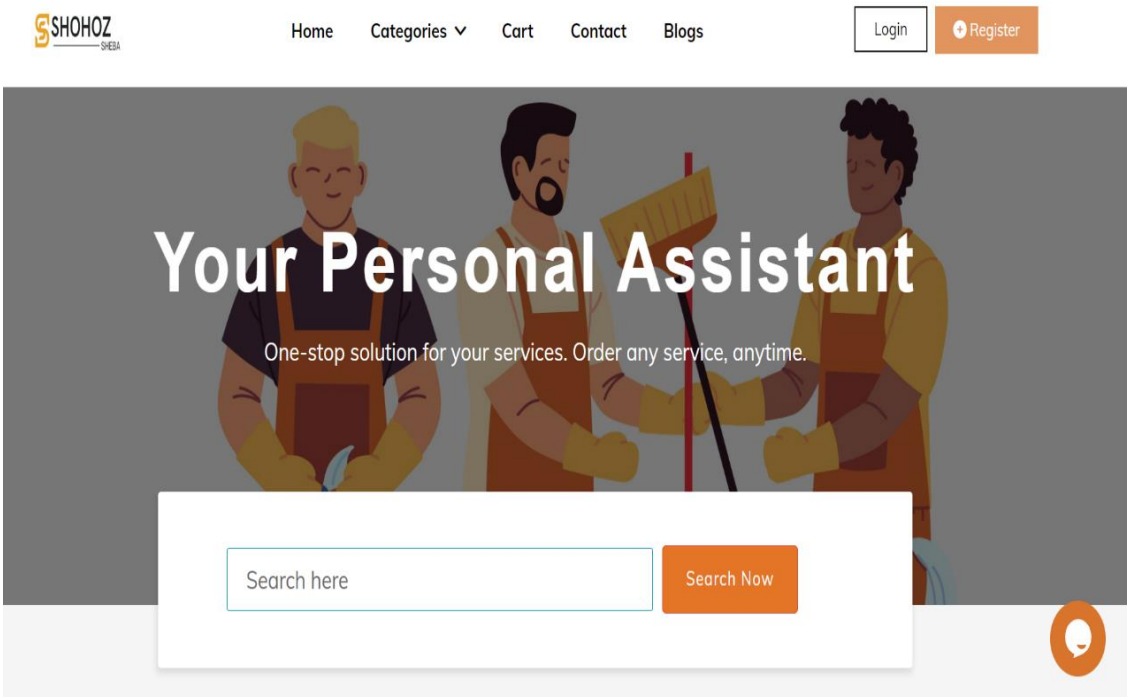

Figure 4.3.3: Home Page

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All Services:

The following figure 4.3.4 shows All Services

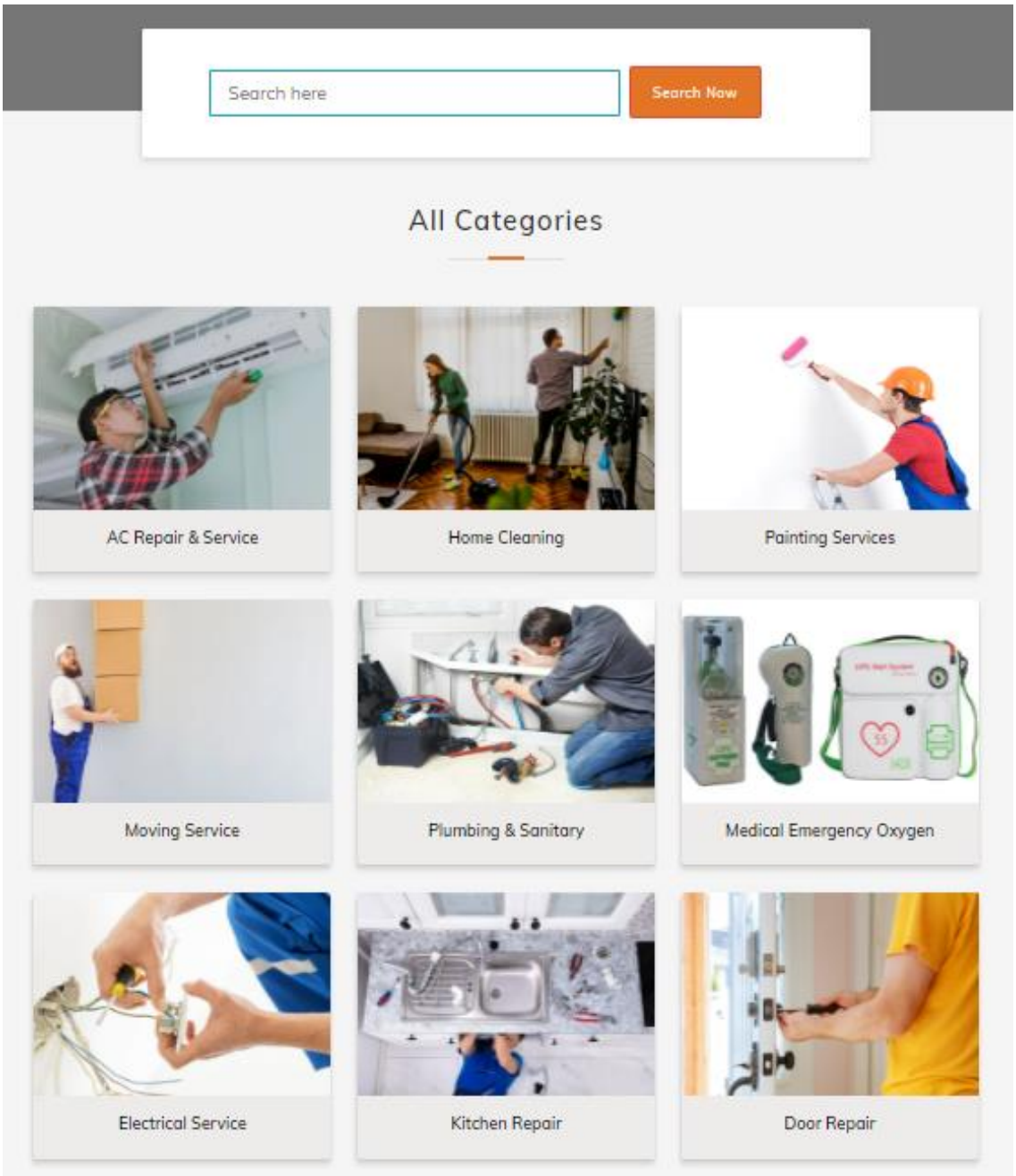

Figure 4.3.4: Service Page

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Live Chat:

The following figure 4.3.5 shows Live chat

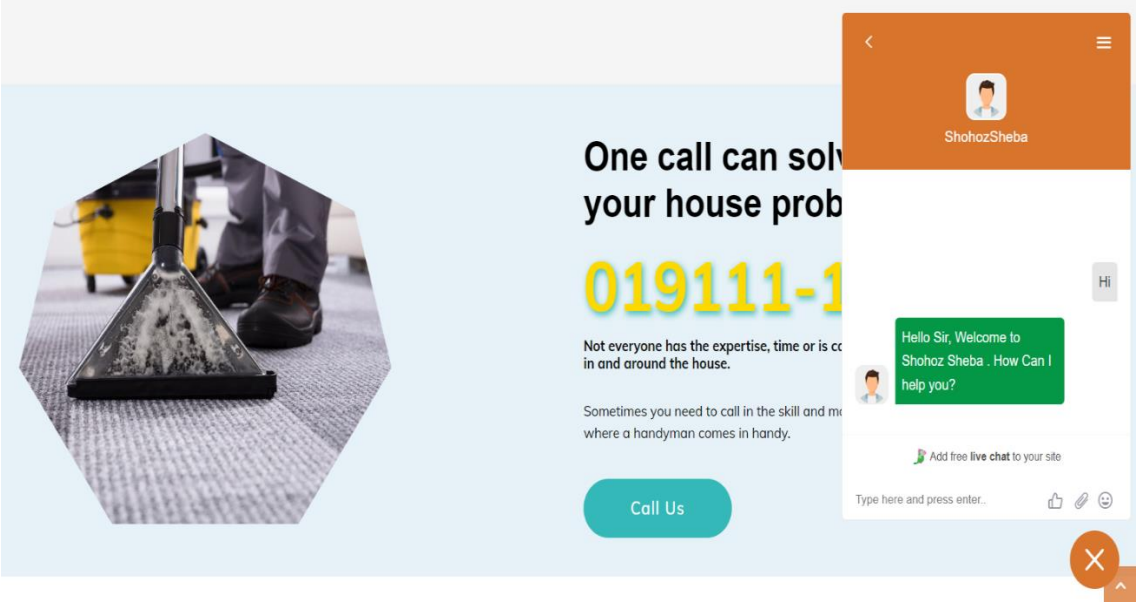

Figure 4.3.5: Live chat

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Add to Cart:

The following figure 4.3.6 shows cart

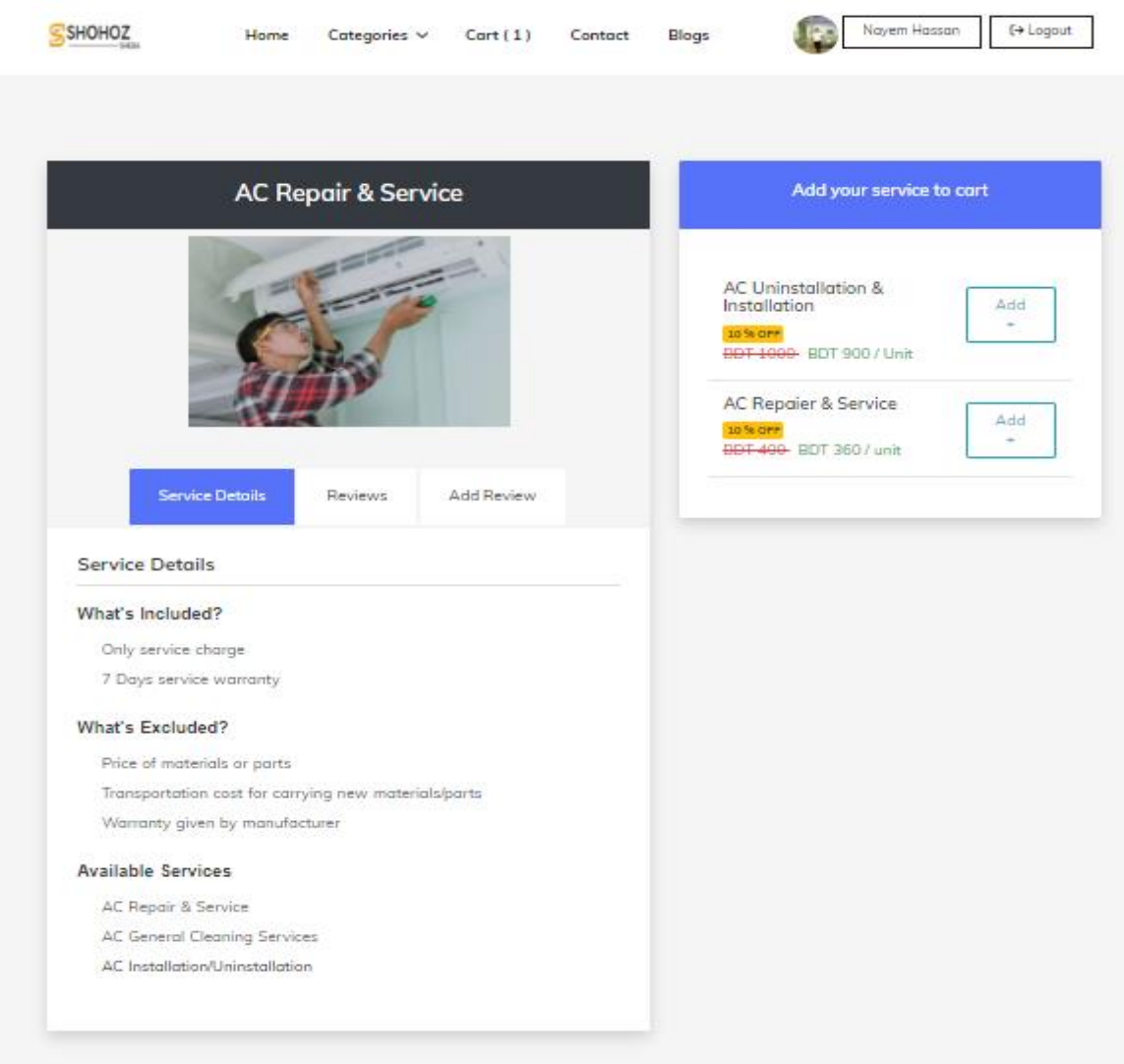

Figure 4.3.6: Add to cart

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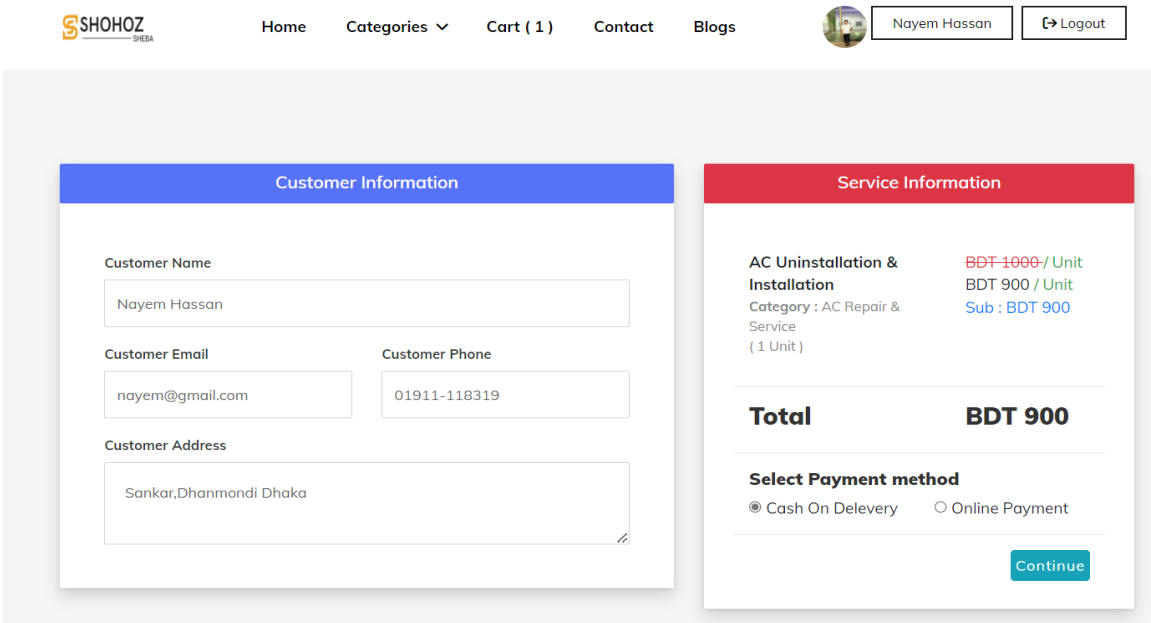
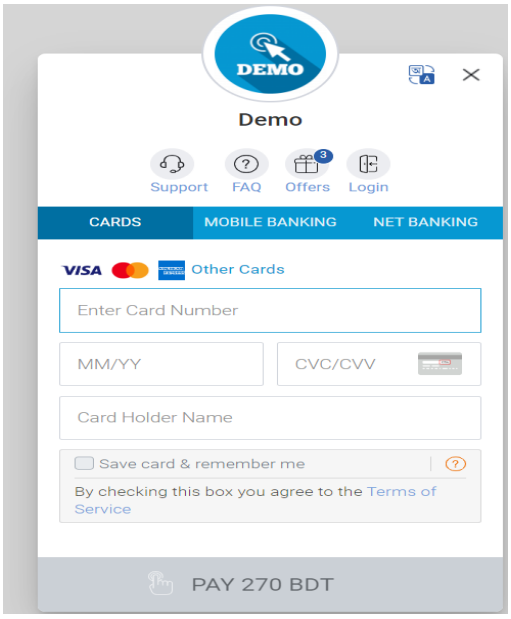
Payment Method :

The following figure 4.3.7shows Payment Method (Cash On Delivery/Online payment)





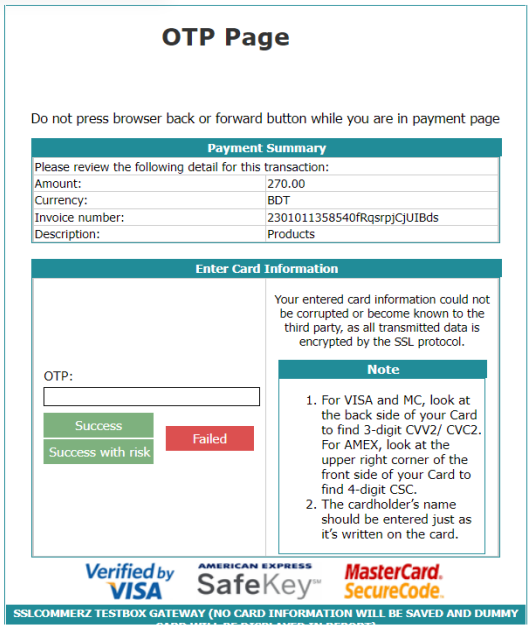


Figure 4.3.7: Payment Method (Online Payment & Gate Way)

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Order Process:

The following figure 4.3.8 Shows Order Process

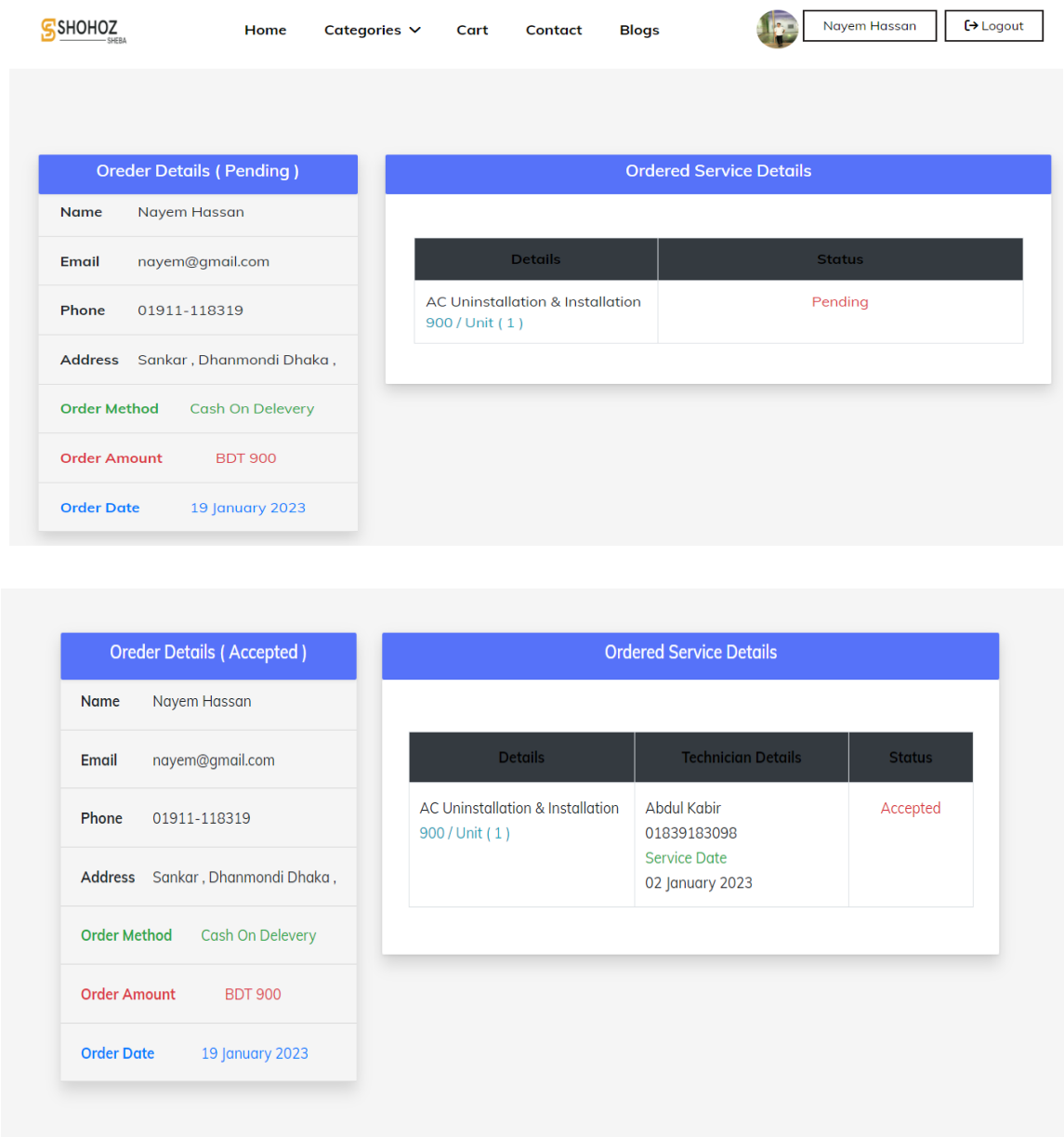

Figure 4.3.8: Order Process

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Admin Panel Log In:

The following figure 4.3.9 Shows Log In

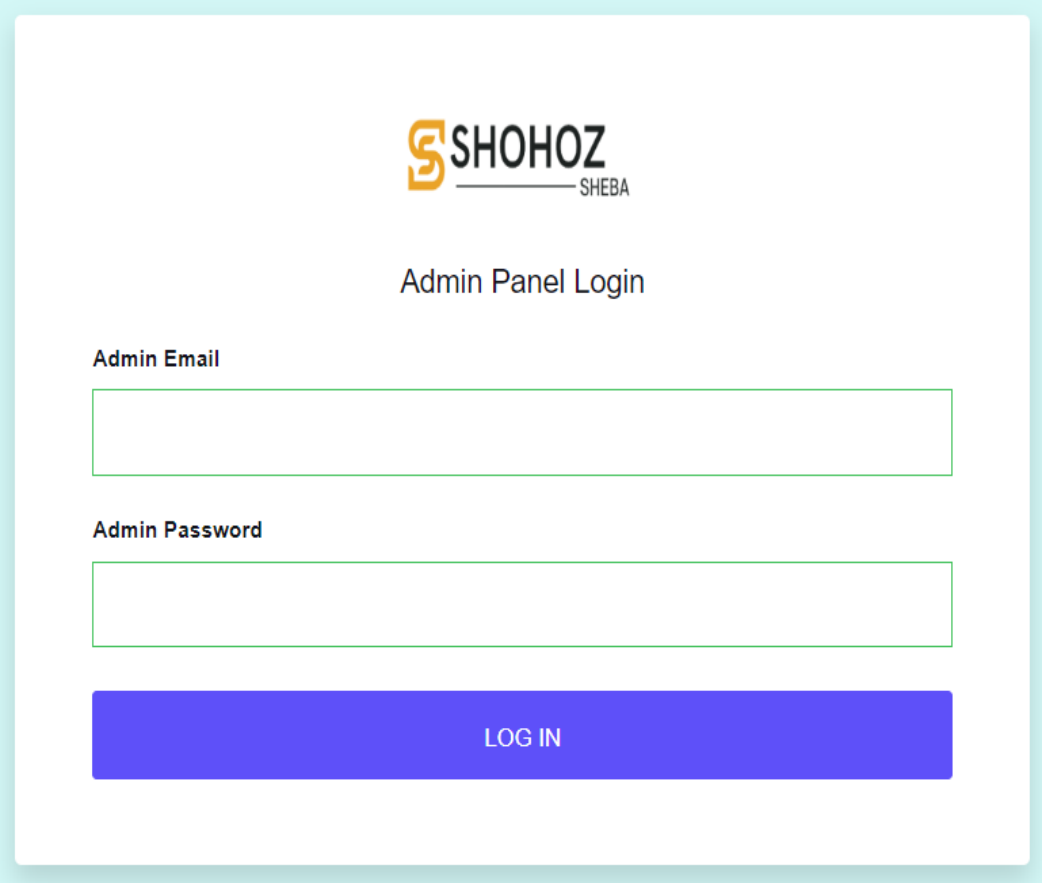

Figure 4.3.9: Admin log In Page

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Admin Home Page:

The following figure 4.3.10 Shows Admin Home page

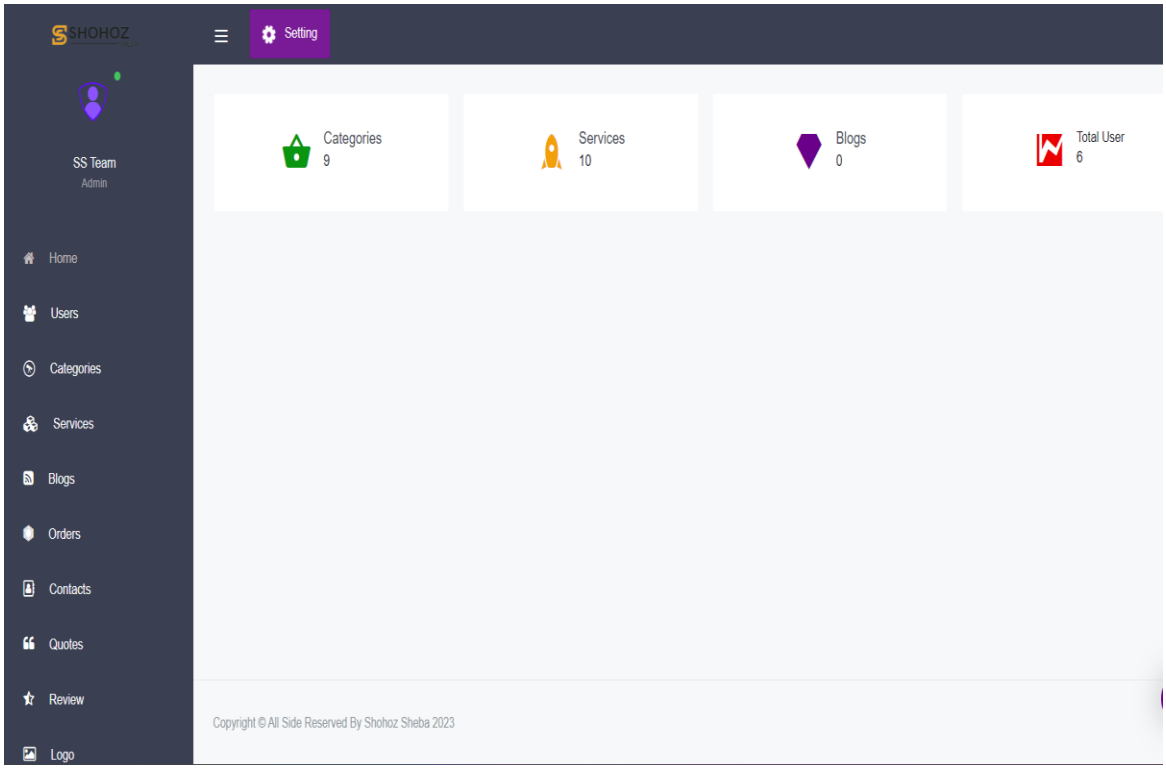

Figure 4.3.10: Admin Home Page

4.4 Implementation Requirements

We need some prerequisites to implement our project. As a result of implementation, we could need to employ a model, concept, standard, specification, or policy. The completion of several tasks from multiple departments is necessary for an implementation process to be effective. Way of Implementation of Shohoz Sheba Planning and analysis, User Interface, HTML,CSS, Bootstrap, PHP, Laravel, MySQL

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CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

Our database is set up in such a way that it can manage several requests running simultaneously. Since MySQL is now the most well-liked relational database management system, we have used it. Additionally, because it is open source, we may modify it as needed. Our database's administration may be safely performed via phpMyAdmin, which is accessible on almost all platforms [13]. All of our application's data, such as services and user information, will be saved here.

5.2 Implementation of Front-end Design

For our front-end design, we utilized HTML, CSS, and Bootstrap. A free front-end framework is Bootstrap. Web development is quicker and simpler because to Bootstrap. Modernity is a fact of life. Therefore, technology is a part of our daily lives. Every business in the area has a website, as is evident. Therefore, a web-based project is required. To complete it faster, we utilize bootstrap. HTML and CSS were used to build Bootstrap. There are several pre-built templates in bootstrap. Forms, tables, buttons, navigation, and image carousels are all included with bootstrap. Before using bootstrap, we must first link it.

5.3 Testing Implementation

Testing is a technique to see if the product complies with expectations and validate that it is error-free. To make sure everything is operating as planned, several different types of tests have been included [12]. Various test scenarios and their results are provided in table 5.3.01.

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Table 5.3.01: Different tests

Test Case	Test Input	Expected Outcome	Obtained Outcome	Pass/Fail
1. Customer Register	Customer Information (Name, Email Password etc)	Successfully Registration	Successfully Registration	Pass
2. Customer Login	Email and password	Successfully login	Successfully login	Pass
3. Customer Login	Incorrect Input	Login Failed	Login Failed	Pass
4. View Profile	Click on Profile Menu	View Profile Information	View Profile Information	Pass
5. Update Profile	Give all the values	Update Successful	Update Successful	Pass
6. Search Necessary Service	Give necessary value	Show search result	Show search result	Pass
9. Add cart any Service	Click on cart button	Successfully added to cart	Successfully added to cart	Pass
10. Request Service	Click process service	Request Send Successfully	Request Send Successfully	Pass
11. Payment Method	Select payment cash on Delivery or Online payment	Select Successfully	Select Successfully	Pass
12. Log Out	Click on “Logout”	Logged out	Logged out	Pass

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Following are the test cases for the Shohoz Sheba web application

Test Case 1.1:

Precondition: Internet access is required for the device.

Assumption: User is registered and preparing to log in.

Input: User's necessary info is entered and Register button pressed.

Result: User has registered.

- **Test Case 1.2:**

Precondition: Internet access is required for the device.

Assumption: User is logged in.

Input: User's necessary info is entered and Login button pressed.

Result: User is viewing the homepage.

- **Test Case 1.3:**

Precondition: Internet access is required for the device.

Assumption: User selected the service which he wants.

Input: User pressed the necessary service.

Result: User is entering the service page and viewing the service details.

- **Test Case 1.4:**

Precondition: Internet access is required for the device.

Assumption: User added the service to cart.

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Input: User pressed Add Cart button.

Result: User is viewing in the cart section which service added by him.

- **Test Case 1.5:**

Precondition: Internet access is required for the device.

Assumption: User confirmed the service which he wants to get.

Input: User pressed Procced to Checkout button.

Result: User is viewing the payment process.

- **Test Case 1.6:**

Precondition: Internet access is required for the device.

Assumption: User selected payment options.

Input: User selected the payment option pressed Continue button.

Result: User is viewing the payment method.

- **Test Case 1.7:**

Precondition: Internet access is required for the device.

Assumption: User selected the payment method.

Input: User selected the payment method and make payment.

Result: User is viewing the order status.

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- **Test Case 1.8:**

Precondition: Internet access is required for the device.

Assumption: User wants to log out.

Input: User pressed the Logout button.

Result: User is logged out.

5.4 Test Results and Reports

We are putting the system's whole functioning to the test. Testing generally involves determining whether or not all features are functional. The test strategy specifies the type of testing that will be done. System testing, integration testing, and unit testing are the three main testing tiers. We evaluate a website's functioning when we test it. Unit testing, integration testing, system testing, and acceptance testing came after functional testing. We test every functional, user, and administrative panel scenario. The test result was positive, however there can be a little problem that isn't usually exploitable through testing.

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CHAPTER 6

IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY

6.1 Impact on Society

This is the story of that days, we usually look for people locally for our home service related work. But technology and human needs have changed over time. So people now want to do any work easily and in very short time. Our science and technology have advanced so far that it is now quite affordable to get a smartphone. Thus, cellphones are available to practically everyone. Our science and technology have advanced so far that it is now quite affordable to get a smartphone. Thus, cellphones are available to practically everyone. The internet may help to solve this issue. Due to the fact that our software needs internet access to check in and update daily services, people need to use internet occasionally. Due to the use of internet on mobile devices, they can know about our services at home and they can easily do any work at home with any kind of services online. Thus Shohoz Sheba can play an important role in spreading social influence.

6.2 Impact on Environment

We will make every effort to make our web as environmentally friendly as possible. Nevertheless, it could potentially have some environmental effects. For example, our application requires a smart device (smartphone/laptop) to use, and if the phone's e-waste isn't properly recycled, a mobile phone might harm the environment. Therefore, it might have an influence on the environment If someone uses our program and brings a phone but doesn't discard it. As we provide a full range of home care services, we strive to avoid any waste or environmental damage. Above all we take important precautions to ensure that our applications do not harm the environment

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6.3 Ethical Aspects

Our main aim is to run an organization by serving people. Ethical aspect is very important in that case. Because we know that we never want any unethical act to run our organization. We will try to provide service with maximum security of our work. Also we will provide service with confidence in people's homes in short time. So we never take the ethical aspect lightly. We will always keep an eye on not losing people's trust. So there is nothing to worry if ethical aspects are considered in our project Shohoz Sheba.

6.4 Sustainability Plan

With the passage of time, web technology is regularly updating and bringing new things to us, and the security system is getting stronger. After a given period, the technology and framework we employed in our project undergo significant revisions. We used the most recent technology at the time to create our application. Again, we will need to update our software and make the required adjustments if a sizable upgrade is introduced that would clash with our current code. We will change this application from time to time and add new features so that our project users will get new updates.

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CHAPTER 7

CONCLUSION AND FUTURE SCOPE

7.1 Discussion and Conclusion

Some kind of problem like water line problems, electrical problems, cleanliness of house, repair of house and house almost happens in our homes. Then many of us do not find the right person for solving those problems, due to which we have to suffer a lot. It is a major time waster. This application is developed to eliminate these sufferings and save people from wasting time. We think "Shohoz Sheba" app will be very useful for common people. There are some other such applications in our country. But we didn't find them user friendly. So we have developed "Shohoz Sheba" app for the convenience of people. So that every people can use the app very easily. Additionally, it is made open source so that we may update or enhance this application in the future if we like. It will aid in several feature upgrades and fixing bugs.

7.2 Scope for Further Developments

The system is basically designed to solve the problems that people face on a daily basis. We will gradually add more features in the future. So that people's lives become easier. Currently it is only a web application but later it is possible to make it an android application. As the program will be open source, any more intriguing suggestions that can extend its feature set would be much appreciated. We used the most advanced and cutting-edge technologies when creating this application. It might be a fantastic opportunity for new students who seeking information about contemporary architecture and design trends in the "Web Development" industry.

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