

Authentic Seller Recognition Using NID Verification for Online Shopping

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

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL


This Project/internship titled “**Authentic Seller Recognition Using NID Verification for Online Shopping**”, submitted by Iftekhairul Islam Sowrov, ID No:191-15-2504 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 5/2/2023.

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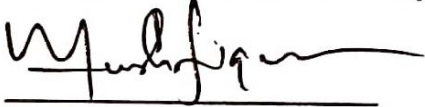
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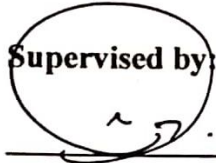
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DECLARATION

We hereby declare that this project has been done by us under the supervision of **Dr. S. M. Aminul Haque, Associate Professor, 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.

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ABSTRACT

Harassment related to online buying is currently a significant issue in our nation. Through this, certain gangs are robbing individuals daily of lakhs of takas. Because customers lack sufficient knowledge, these criminals continue to engage in such crimes while remaining on the sidelines. In my project, I've employed a few fresh methods that make it simple to identify and prosecute these offenders after they've committed a crime. As a result, it will be impossible for one criminal to commit many offenses, and the rate of fraud will significantly decline. And maybe most importantly, individuals will be aware of cyber legislation. Online shopping frauds affected 11.48 percent of clients in 2020, according to the Dhaka Tribune website. Now, it was further raised for 2021–2022. And this cybercrime is causing everyday hardship to a lot of individuals. This is reduceable.

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CHAPTER 1

Introduction

1.1 Introduction

Harassment related to online buying is currently a significant issue in our nation. Through this, certain gangs are robbing individuals daily of lakhs of takas. Because customers lack sufficient knowledge, these criminals continue to engage in such crimes while remaining on the sidelines. In my project, I've employed a few fresh methods that make it simple to identify and prosecute these offenders after they've committed a crime. As a result, it will be impossible for one criminal to commit many offenses, and the rate of fraud will significantly decline. And maybe most importantly, individuals will be aware of cyber legislation. Online shopping frauds affected 11.48 percent of clients in 2020, according to the Dhaka Tribune website. Now, it was further raised for 2021–2022. And this cybercrime is causing everyday hardship to a lot of individuals. This is reduceable.

In our nation, there are several well-known online marketplaces, like Daraz, Evilly, and bicroy.com. where thousands of individuals purchase online every day is unknown. 20% of these clients become scam victims. However, only 2% of individuals can care for it. Because of this, these crooks are using new tactics to trick people. For this, our nation has cyber laws.

However, most individuals are unaware of this internet rule. Criminals are also profiting from this flaw. Zara is aware that without sufficient knowledge, they are also unable to take any action. In case someone is harassed and flees, I have developed a new system. Based on his data's VOI, he can be readily prosecuted. By doing this, the public will become more aware of cyber legislation and the offenders will also be apprehended.

1.2 Motivation

The initiative will make it very simple to guarantee client safety. 90 percent of fraud will be avoidable. Cyber regulations can be made more widely known to the public. People will have faith in the internet marketplace. Additionally, victims of fraud can simply seek legal action. And this cybercrime is causing everyday hardship to a great number of individuals. This is reduceable.

1.3 Objective of Project

In order to prove our claims, we have established a few objectives. This will develop in a much clearer manner.

The goal is indicated below.

- Making a from where we can get all data about seller and buyer.
- Every buyer can get a copy of seller documents.
- Buyer can complain about any seller through their id.
- Buyer also complains in the given website through seller details.
- Every seller detail shown with their products.

1.4Expected Outcome

We intend to provide this help across the nation. It will ideally perform wonderfully.

- Security for the customers.
- Satisfaction about products.
- New security feature.
- Login and sign in panel for both, seller and buyer.
- Helpline about cybersecurity for customers.
- If someone cheated customers can get the report from.
- Seller verification with NID.

1.5 Report Layout

The summary of a project report format is essentially what a report arrangement is.

With its introduction, motivation, aims, and proposal, Chapter 1 exemplifies the project's beginning.

The "Background" section of Chapter 2 will include an introduction, relevant work, a comparative analysis, and a description of the scope of the issues and difficulties.

Requirements will be specified in Chapter 3. Here, we'll attempt to discuss the DFD model, Block Diagram, and requirements gathering and analysis.

Design Specification is in Chapter 4. Include the introduction, the suggested system, and the front-end design.

Implementation & Testing will be explained in Chapter 5.

Impact on society, environmental issues, ethical considerations, and sustainability will all be covered in Chapter 6.

The Summary and Conclusion are covered in Chapter 7, which also includes a preview of upcoming projects.

CHAPTER 2

Background Study

2.1 Preliminaries/Terminologies

Now days, ecommerce-shopping increasing day by day. We can see a lot of money dealing with this platform. In Bangladesh, between 15 and 20 lakh people purchase online. According to government statistics, Bangladesh has roughly 10 crore active internet users, however Masrour, a former president of the Bangladesh Association of Software and Information Services, claims that there are only about 3 crores of them (BASIS). Last year, various e-commerce and Facebook commerce (f-commerce) websites defrauded more than 11.48% of e-commerce clients. 2019 saw a prior value of 7.44%. The information was made public in the yearly study report of the volunteer cyber security awareness group Cyber Crime Awareness Foundation (CCA Foundation), titled "Cyber Crime Trend in Bangladesh 2020," which was released on Friday. According to the research, the country's growing usage of IT during the COVID-19 epidemic coincided with an increase in cybercrime. People are purchasing their everyday essentials at home because to IT. But some dishonest business owners who rely their operations only on Facebook are exploiting it, the research added.

So, in this section, I added some new features with my own research for protecting and take necessary action for those sellers who cheated with their customers.

2.2 Related Works

I don't find any kinds of related works in our country. but other country has some rules for e-commerce seller and customers. If the seller cheated with the customers, they with take necessary steps automatically. For this reason, their online shopping is totally safe platform.

But on the other hand, in Bangladesh, we don't have those facilities. If we see the most popular online shopping platform, they have not any strong security issue for the customers. Recently EVALY cheated with their customers. It was a big crime in Bangladesh history. Software for preventing e-commerce fraud comparison.

So, I think my work is fully a new work and feature for this problem. The top four aspects of E-commerce Fraud Protection systems that positively affect customer satisfaction are "Transaction Scoring," "Fraud Detection," "ID Analytics," and "Ease of Use." These variables are chosen by an algorithm that chooses the characteristics in this category that are most likely to predict customer pleasure.

2.3 Comparative Analysis

Today, the internet may have grown to be a sizable market capable of serving the entire world's population. Why is E-Commerce so alluring for many traditional firms is the subject at hand. E-commerce is changing the way individuals conduct business. Enterprises of all sizes are using the internet to expand their product and service offerings to new demographics throughout the globe, from huge companies to tiny businesses. There are numerous ways to purchase your goods and services online at that location, ranging from straightforward shopping websites to sophisticated database-driven, data-capture, and online payment card confirmation systems.

But many people get a lot of money by this site. So, we need to protect them with a good security format.

2.4 Scope of The Problem

The main scope of this problem is customer don't get enough information about seller but otherwise seller have the details about a customer. So, when a seller fraud with her customers, the customers can't not do anything or take any steps for this seller because customers don't gate full information about seller.

For this reason, this seller makes these kinds of crime in every day.

2.4.1 Background of the Project

In our online shopping we faced many kinds of problem. Froud is the one of them. every day a lots of people fraud by seller. They lost lots of money in this site. We need to stop this, but our country people don't know how to do, and all the websites don't help them and don't have any feature. I have already fraud a lot of sites. For this reason, I make this project.

2.4.2 Problem Statement

This type of e-commerce fraud accounts for a staggering 71% of all assaults, making it the most prevalent. The bulk of cybercriminals' techniques use identity fraud, either as the result or as a springboard for more attacks. Friendly fraud can happen on purpose or by accident. The fundamental tenet is that a consumer, whether legitimate or not, would pay for a service or commodity that they assert was never provided or was damaged upon delivery. The retailer is then forced to provide a refund, redeliver the product, or risk a chargeback. Clean fraud describes fraudulent operations that seem like real transactions. Since banned fraud accounts typically do not flag or reject the transaction, this sort of fraud is becoming a bigger concern for businesses. Through affiliate fraud, dishonest individuals can fudge traffic and sign-ups to give a merchant the impression that they are getting customer attention when in fact they aren't. A lot of businesses participate in or manage affiliate marketing programs that pay out commissions for sharing links and content. Unfortunately, affiliate fraud may be as easy as repeatedly reloading a website or sending spam emails and pop-up ads to fake high traffic levels. This kind of fraud occurs when cybercriminals create a phony or imitation website and lure customers in with discounted items.

These bogus websites may occasionally appear in advertisements or may be delivered to a user's email address in a phishing attempt.

2.4.3 Proposed System

I am proposing a web-based application that will help the customers for take nectary steps for the fraud seller. I also used Laravel for collecting data from seller and customers. I can also use android app for this website. But the main part is website. I used there 2 login panel and 2 register panel and 1 admin panel. Also have a page from cyber security sector from Bangladesh.

So, all this application is new in this site. This system can help to protected fraud from the seller and give the knowledge about cyber-security to the people.

2.5 Challenges

One of our biggest hurdles was choosing a topic. Which topic we'll chose has us completely stumped. We have a lot of issues right now while we build. However, we don't know anything about the android studio. We are aware of it. becoming more practiced. Real-time databases were another thing we learnt. We must properly secure the safety component because it is for a girl's safety application.

CHAPTER 3

Requirement Specification

3.1 Business Process Modeling

Systems Analysis and Design are referenced as framework methodologies for creating excellent mechanization frameworks. Innovation in data is combined. Steps include arranging, looking over, planning, carrying out, and supporting. It talks about both upcoming framework support duties and creative engagement. The basic SAD approach is the cascade model, which is very simple to use simply adhering to the model steps. The focus is in this sense on writing computer programs.

Its aims are numerous. These are: Framework evaluation aids in obtaining ease and strength of various designs; This kind of assessment provides a fortunate place of information and detachments of various frameworks, measures, limitations, and complete designs. It revolves around structures where other small designs could raise objections, and it also relates to the understanding of major plans.

3.2 Logical Data model

There is a client service plan for this application. The Real-time illuminating record server houses all the client and Seller data. The request at this stage is for a reliable, educational record server. A revolutionary method of organizing the information is used in this illuminating record structure, and it is called real-time dealing. There is no influence on information base access in the current scenario because the status is always changing. Clients can access data, but they must first install the program on their remote before doing so.

Here is the Figure:

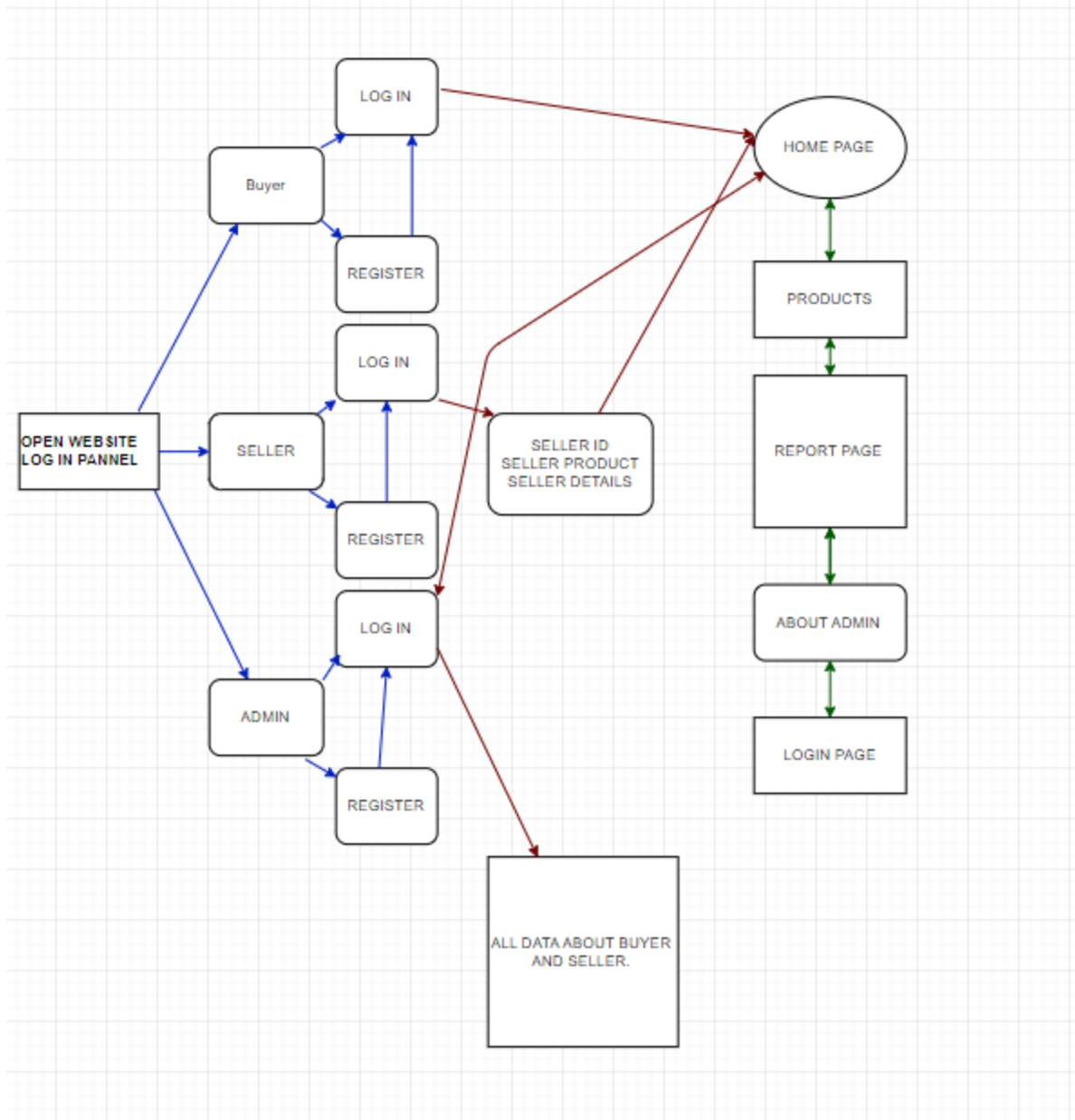


Figure 3.1 ER Diagram

This is the full ERD of my system. Here I'm showing the full process in this project. I create here 3 logs in and register panel. All data will save in the backend. Only the admin has the access of the data storage. Everyone must fill all requirement for registration.

3.2 Data Flow of This Website

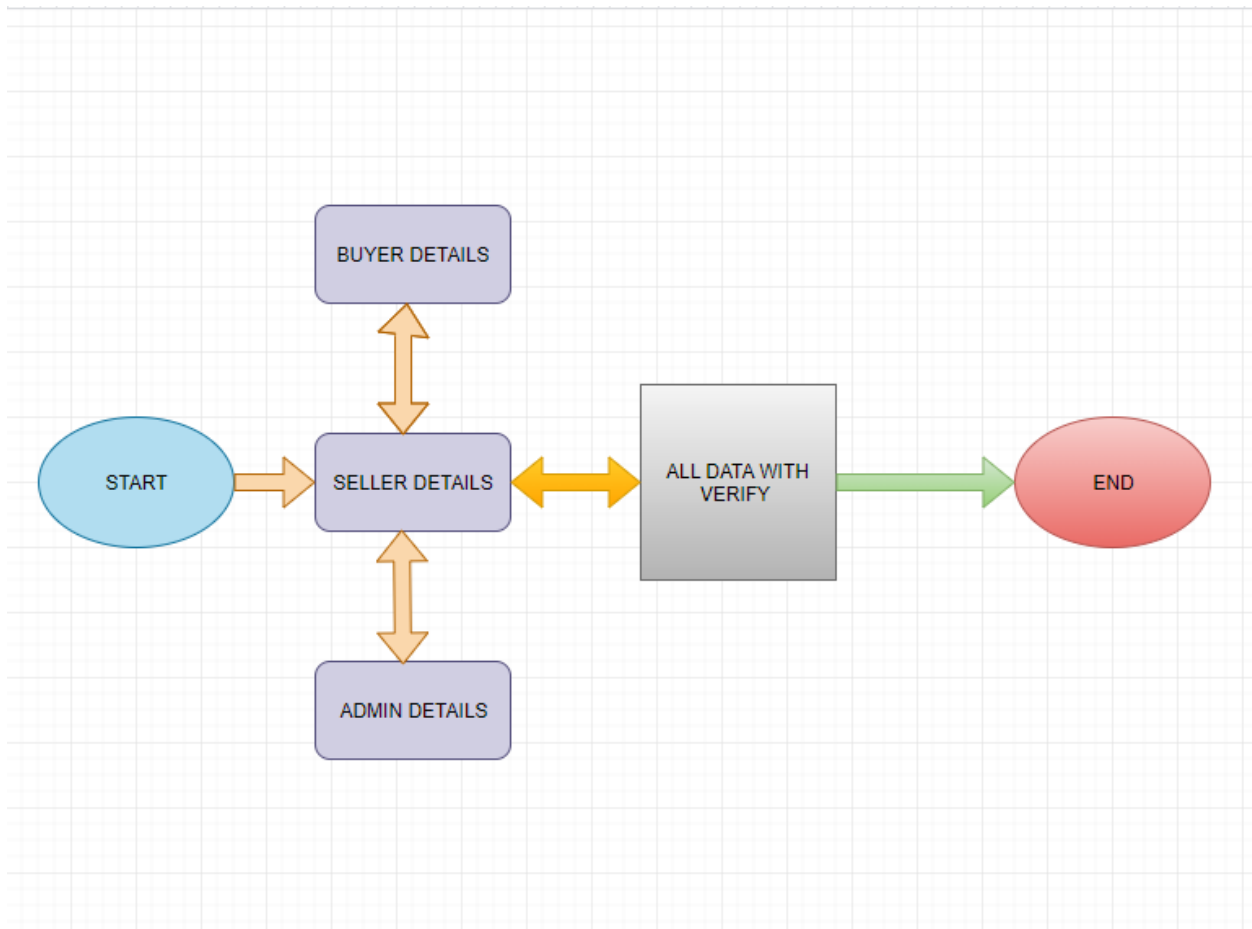


Figure 3.2 Data Flow Chart

Here we can see data flow chart. I have three sectors' data for this site. All data will be stored in backend with verification. This Section details have only the admin panel.

3.3 Requirement Collection and Analysis

My project is a Web Based Application. It has a few prerequisites. The following are those:

Hardware Configuration

- A PC

Software Configuration

- VS CODE
- Brackets
- Laravel

Features

- Seller Log in panel.
- Seller registration panel
- Report from.
- Guideline about online cyber-crime report system
- Seller details and seller id to all of product.
- Buyer get a memo with seller details with NID number when they will purchase any product from the seller.

3.4 Use Case Modeling and Description

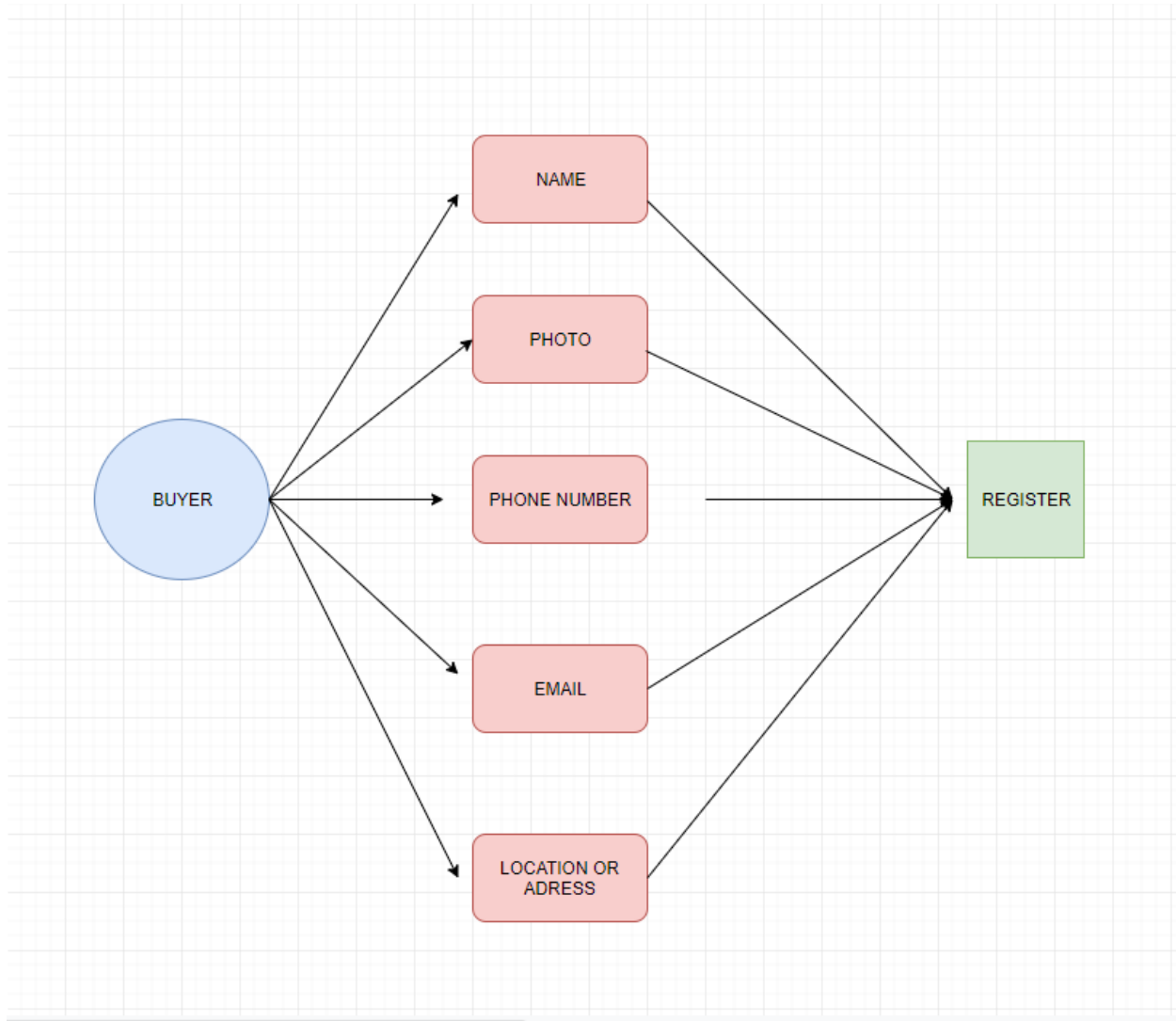


Figure 3.3: Buyer Use Case model

Here I show the terms how a buyer can get registration. He must include all the things in this from for registration. All documents will save in the backend.

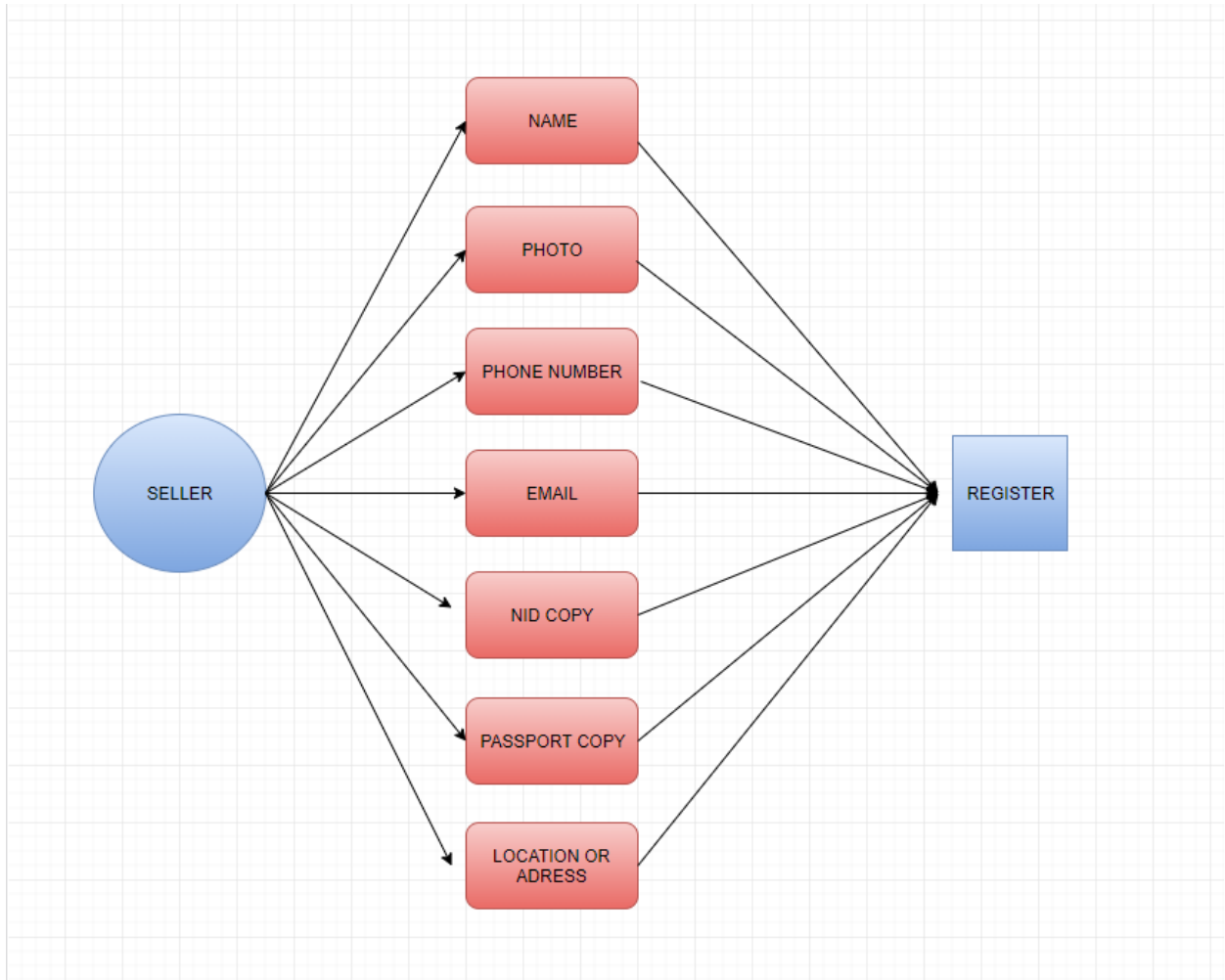


Figure 3.4: Seller Use Case model

This is showing us how can a seller register in this site. We have a new feature in this site. This is NID and Passport copy. That is the strong verified document from the seller. All data will save in the backend sector. Every buyer will get a receipt with seller details.

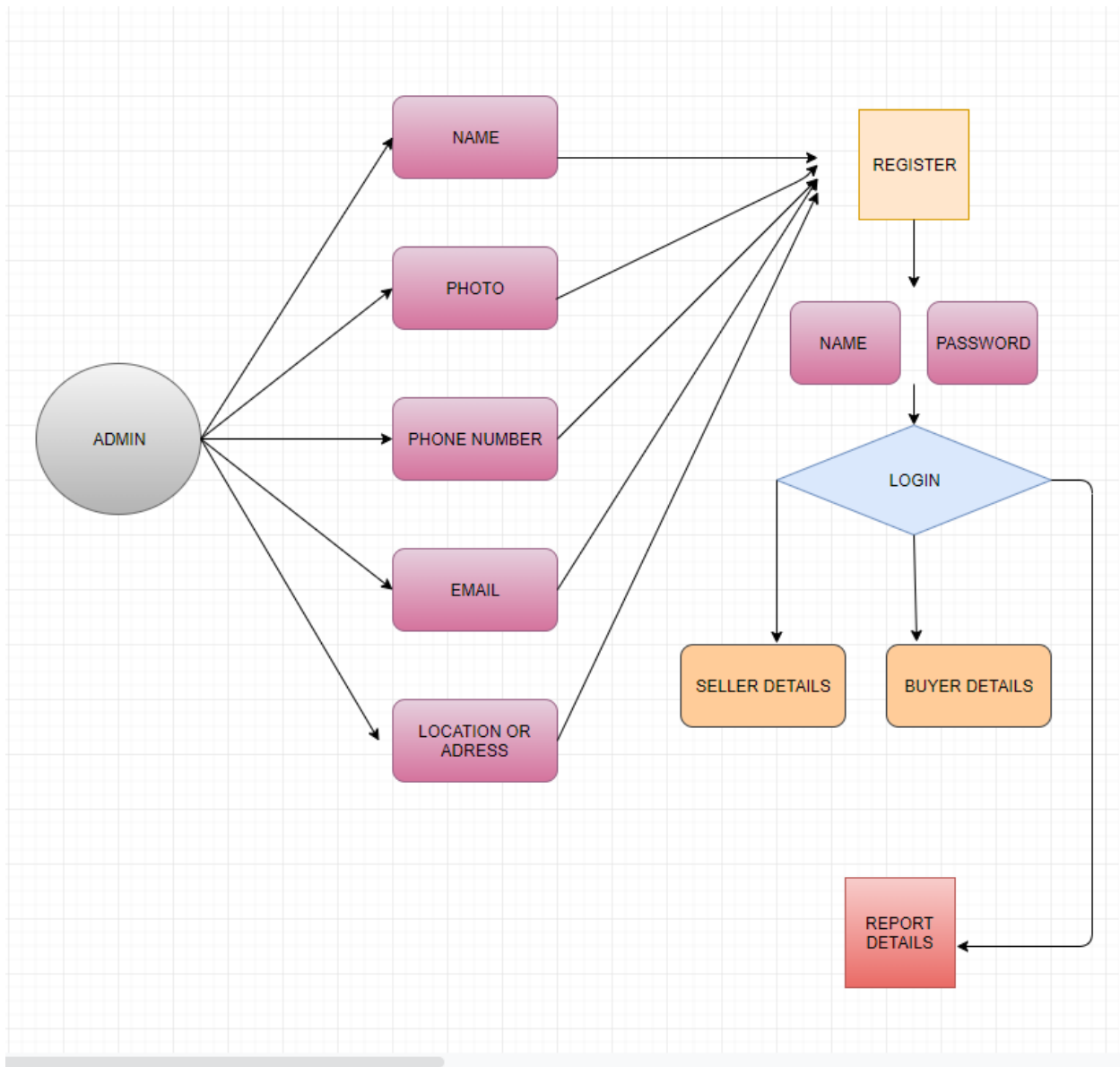


Figure 3.5: Admin Use Case model

This the admin log in system. If we have 2 or more admin in any site, then they will register fast. Then the next step is login from. Admin will get the backend access and all data access.

3.5 Design Requirements

The process of creating a detail for a product that is intended to meet goals and depends on several rough components and limitations is known as programming setup. "Each and every cycle involved in imagining, outlining, carrying out, approving, and over the long-term system adjustments" or "the definition of development in response to needs" "are two methods for displaying programming schedules.

3.5.1 Conclusion

The design evaluation and strategy that will be utilized to compile this application has been the focus of the whole section. The structure of this application includes a thorough analysis of construction to identify areas for development and, where needed, to make invigorates. When a framework assessment is carried out precisely, it ensures that the sensible path is selected in terms of applications and aids in reducing blunders, which lowers future IT basics for conclusive thinking. If properly executed, this process will not only quickly save the connection money, but it will also guarantee that the right application approach, turn of events and business charge examinations have been considered to accommodate likely plans, and that misconceptions are kept to a minimum, lowering the requirement for future IT invigorates, which are more reasonable, supportive, and adaptable.

CHAPTER 4

Design Specification

4.1 Front-end Design

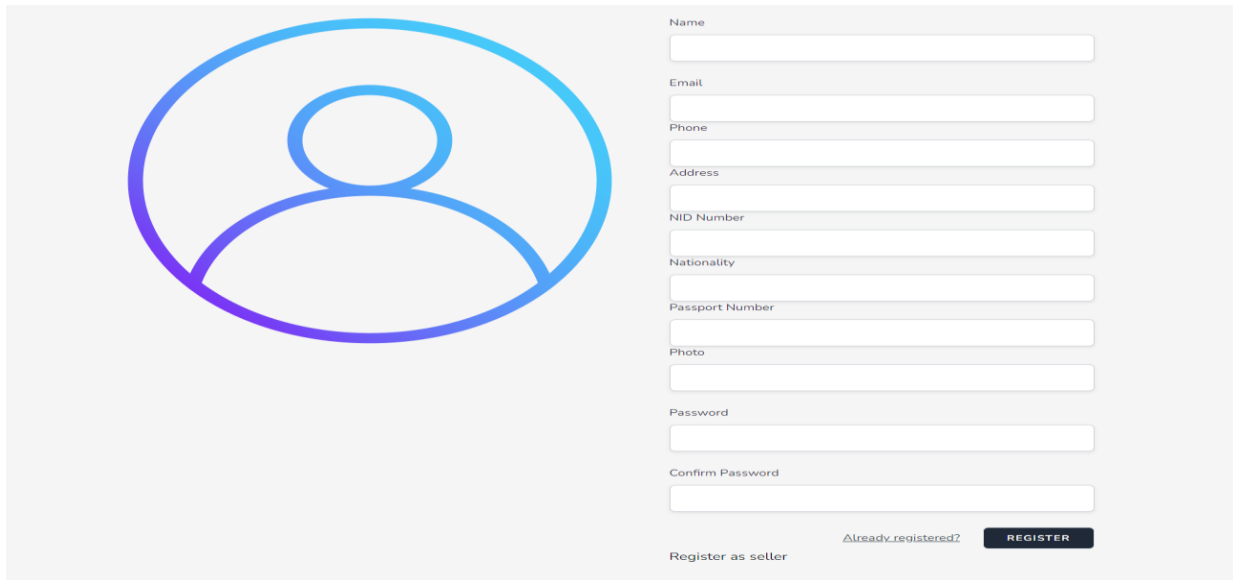
VS CODE, Brackets, HTML, CSS, JAVA SCRIPT, MEDIA Query, MY SQL, Bootstrap and GOOGLE CHROME for this Website. I included VS code for my task. This movement tool was created by Google and has received accolades from flexible application developers from one side of the earth to the next. A PC is the most important part for this project.

4.2.1 Functions

There are six functions in my system. I've made every effort to further build our application. Update your information, voice a complaint, ask a question, seek legal counsel, and report a Fraud are among the features. I also attempted to include a feature called the seller details for every product and NID number, which is entirely distinct from the current aphthae.

4.2.2 Profile Function

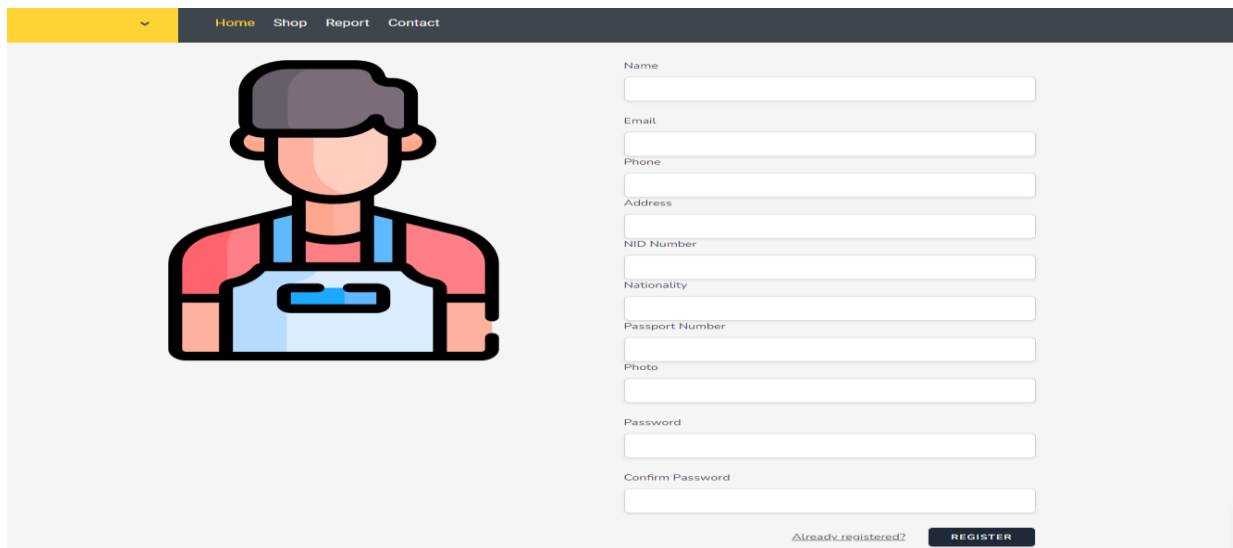
Informational purposes only in this section. They will first complete the sign-up section. All user information will be entered there. They will be able to view the house layout after signing up.



The image shows a registration form for a buyer. On the left is a large blue outline icon of a person's head and shoulders. To the right is a vertical list of input fields: Name, Email, Phone, Address, NID Number, Nationality, Passport Number, Photo, Password, and Confirm Password. At the bottom right, there is a link 'Already registered?' and a dark 'REGISTER' button. At the bottom left, there is a link 'Register as seller'.

Figure 4.1: Buyer Profile Function

The picture is buyer registration from. We can see the requirement of data. If anyone want to buy any product, he must do this registration.



The image shows a registration form for a seller. At the top, there is a navigation bar with 'Home', 'Shop', 'Report', and 'Contact'. On the left is a colorful icon of a person wearing a red shirt and a blue apron. To the right is a vertical list of input fields: Name, Email, Phone, Address, NID Number, Nationality, Passport Number, Photo, Password, and Confirm Password. At the bottom right, there is a link 'Already registered?' and a dark 'REGISTER' button.

Figure 4.2: Seller Profile Function

Here we can see all the requirement data for registration for a seller. NID is the most important part of this from. So, if anyone to sell anything in this site, he must get registration.

4.2.3 Contact with Admin

If anyone want to contact with admin, they also try this site.

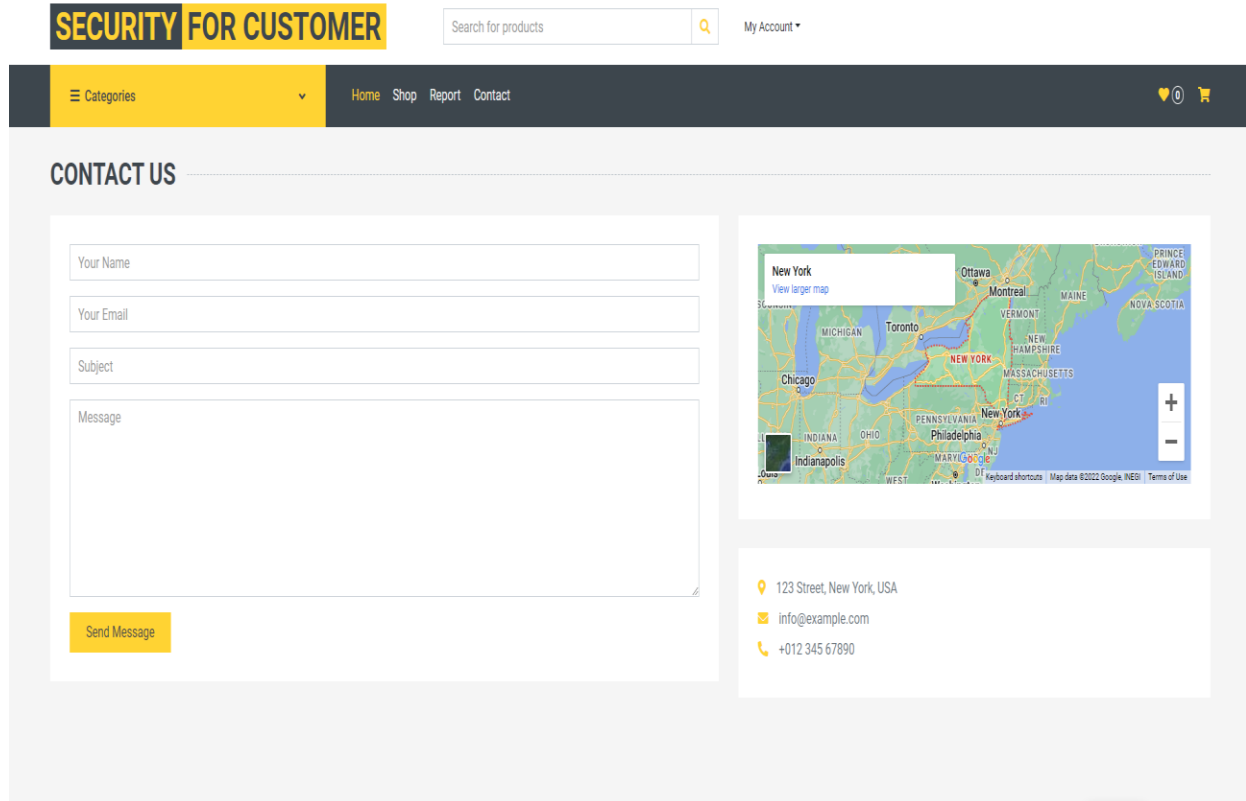


Figure 4.3: Contact with Admin

This is the admin contact where any buyer and seller can contact the website owner. We will give the details of admin in this page.

4.2.4 Report From

If any customer wants to report any seller, they can report with this page to Admin. Then Admin will take necessary action.

The screenshot shows a web interface with a header banner that says "SECURITY FOR CUSTOMER". Below the banner is a search bar and a "My Account" dropdown. The main content area contains a form with the following fields:

Username	Email	Phone
Enter your name	Enter your mail	Enter your phone
NID Number	Product ID	Passport Number
Enter your NID Number	Enter your product ID	Enter your passport number

Below the form is a checkbox labeled "Agree to terms and conditions" and a yellow "Submit form" button.

Below the form is a green box with the following text:

Visit This Link
Cyber Security And Crime Division, CTTC, DMP 36 Minto Road, Ramna Dhaka, Bangladesh
Email: cyberhelp@dmp.gov.bd
Crime Division Cell Number : Call 01769-691522
<http://www.dmp.gov.bd>
OR, Call 999

Figure 4.1: Report From

This is the report from where a buyer gets all kinds of support and help from this site. They can report or report their won in Cyber-crime division.

4.2.5 Sealer Details in Products

We can see seller information in every product. Because if any customer wants to report a seller, he must need the details information.

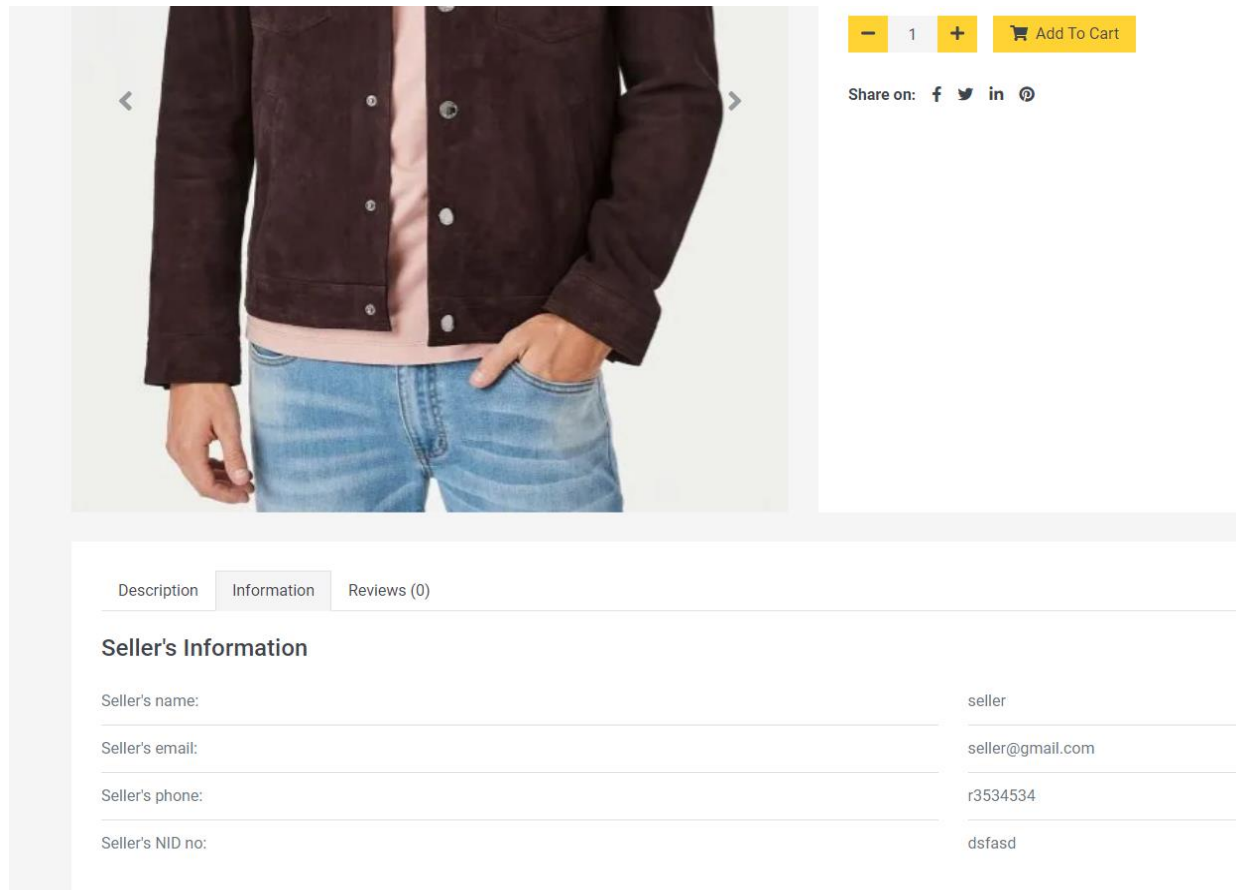


Figure 4.2: Sealer Details in Products

We add seller details in every product. When we click on the information section, we can see the details of seller.

4.3 Back End Development

I used Laravel for the project's back end. To make it easier to utilize Markdown to create appealing documentation for your software or application inside a Laravel application, Saleem Haddad created the code-driven package LA Recipe. By streamlining common tasks used in most web applications, like as authentication, routing, sessions, and caching, Laravel promises to make development simpler. Laravel tries to improve the developer experience while maintaining the application's functionality. You can build modern web apps using Laravel that include all the features you want, like routing, validation, caching, queues, file storage, and more.

4.4 Interaction Design and User Experience

Customizing every facet of a user's engagement with a product is the aim of UX design. UX Design encompasses Interaction Design, to put it simply. Interface design also focuses on ensuring people have a great experience when using a product "now. "A View Group is an odd container for organizing children's views. These kids are exposed to additional devices that are used to create various UI components. The client is what the UI fluctuates on. We have two distinct types of affiliation centers to display this application. The opinions on a client's activity and a specialist's progress are completely different since their positions may be independently verified.

4.5 Implementation Requirements

- VS CODE
- Brackets
- Laravel
- HTML
- CSS
- JAVA SCRIPT
- MEDIA Query
- MY SQL
- Bootstrap
- GOOGLE CHROME
- XAMPP

CHAPTER 5

Implementation And Testing

5.1 Implementation of Database

When customers buy a product from this site, they will get the cash memo and seller details memo with his product. If he gets cheated by the seller he will report about the customer with information in our report form or the seller goes away, then the customer can report in the cybercrime site with NID number and details. Then the seller will be caught soon.

A reliable reference to the social event of the formed educational list to the side in a PC structure electronically is an educational record. The safety of illuminating documents and Both truly regulated disclosure of personal information and its protection. A protected informational index serves as the signature of a computerization system. We employ a Firebase edifying variation with a room-instructive rundown to store data in our application.

A backend programming framework is called Firebase. A piece of software encourages users to collaborate with an educational record in a social setting. It's a Google platform for developing careful mobile apps and web applications. We might thus package it as a Google backend application that communicates wonderful associations, such as application crash objective, assessment uncovering, and following. In Firebase, an informative rundown is stored in a particular record, setting it apart from other informative document engines. Making the application as determined as possible is the main goal of implementing Firebase. Firebase serves as the foundational platform via which we may advance, evaluate, and form connections. The educational assortment table is handled in a way that is always changing, it's just as important to arrive at the primary key as it is to arrive at the root information. However, it does contain two or three indisputably present components, such as endorsement, limitation, cloud firestone, and developing knowledge base.

5.2 Implement Front-end Design

The site is made by HTML, CSS, JAVA SCRIPT, MEDIA Query, MY SQL, Bootstrap in front-end design. Then the website is fully visible. Execution suggests that the system is drawn to shifting a structure as a significant concern. The execution step is when the assignment plan is put into effect. On the other hand, project testing following execution is a crucial step in assuring the effort has a good outcome.

5.3 Testing Implement

Programming testing is a process for determining whether the real programming object complies with the required standards and ensures that it is error-free. Programming's difficulties will probably focus on holes, gaps, and unmet requirements rather than real basics.

In our attempt, the examination outcome is generally based on the suitable interchange of the educational variety. Recently, students have been able to specify that their requests are motivated by their work as recruiters. A robust endorsement framework is introduced in the interim. The testing outcome should be appropriately subject to the endorsement framework.

Programming testing is a procedure to check for compliance with standards and ensure that the actual programming object is free of errors. Instead of actual fundamentals, programming's challenges will likely center on gaps, voids, and unfulfilled requirements. In our effort, the evaluation results are often dependent on the appropriate exchange of the educational variety. Students can now specifically state that their requests are driven by their employment as recruiters. In the meanwhile, a strong endorsement structure is presented. The testing results ought to be adequately submitted to the framework for endorsement. As soon as the sign-up process is finished, you will be sent to the page where you will enter your username and secret word during the sign-in process. An exception message will appear if someone gives false real-world data. If clients are unable to recollect their secret word, they can choose for the significant disregard option. An email will be sent there in the meantime if the consumer provides their email address.

5.4 Test Results and Reports

This is a web-based project. Here I add only the information data collection system. We know that when a seller fraud with her customers, first they block them from their website. they block customer's number. some time they take the payment first and then block them. Other side many websites seller cheated with customers with another technique. They show a good product but when someone order this product, they give them duplicate product. But seller keeps the full payment.

If someone cheated this way, they must do nothing because they haven't seller details. If they got seller details, they would easily report in cyber security sector in Bangladesh. In this website when seller want to sell his product in this website, he need to must be registered. In this registration from I add a new feature that is NID and Passport copy. Seller must need add this because a cheater can duplicate phone, email, name, photo, shop location etc. But when they submitted their NID card copy the admin will verify the NID card and confirm the seller. then a verified seller only sells her product in this site. Other site we give a seller information copy to the customers who buy the product from a seller.

So, if any seller fraud with their customers we can easily find them and take necessary steps.

Table 5.1: Testing

Test Case	Test Input	Obtained Outcome	Result	Date
Visit Website	I have tested through link	Homepage	Passed	27/12/22
Sign up	Through as a buyer, as a Seller as a Admin. With wrong Name.	Not	Passed	27/12/22
Login	False name or id	Not Log In	Passed	27/12/22
Password	Wrong	Not work	Passed	27/12/22
Again Login	All Steps and Information	Go to the Homepage	Passed	27/12/22
Sing out	Successfully	Done	Passed	27/12/22

Here we test all login and register from with id and password. All are successfully work.

5.4.1 Conclusion

Bangladesh is a small, developing nation, but it's time to change as the globe is moving so quickly every second thanks to technology. B2C e-commerce systems are becoming more and more widespread around the world, including in several Asian countries, South Korea, China, India, and Japan. The method of purchasing and selling products and services from business to customer using an electronic medium is known as B2C E-Commerce. E-commerce cannot flourish without an internet connection as well. The establishment, upkeep, and expansion of B2C e-commerce depend on the entire infrastructure. According to the study of B2C forces, the current environment is favorable for the introduction of e-commerce in Bangladesh. A favorable macroeconomic and microeconomic environment exists for B2C e-commerce.

CHAPTER 6

Impact on Society, Environment and Sustainability

6.1 Impact on Society

Now a days in our country a huge amount of people uses e-commerce site for buying and selling their products. IT is a big and large platform for businesses. But in our country, do don't have a good security for this site. For this reason, people fraud with their customers. Now days its daily rule for them. For this reason, many people lost their money and trust. Other site many customers leaving this site. Many sellers face many kinds of problem form those sellers. So, this security feature can help all of them. This system can give them safe, trusted and happy shopping for it, and they will be satisfied.

6.2 Impact on Environment

Online shopping is a place where buyer don't need to go to the market or shop. They can easily buy anything from website. So, if people less go outside for shopping, we can decrease traffic and pollution. For this reason, our environment will safe. Our environment also safe from noise and dust so, if people start e-commerce shopping, I think it will be good for environment.

6.3 Ethical Aspects

This is a security base project, so our main concept is customer satisfaction and security. Most of the e-commerce fraud case showing us that, the buyer has only phone number or chat records. A thief can easily duplicate this kind off element. so, we collect the full data with NID verification system. If anyone try to cheat with their customer, they will easily catch. So, the Ethical Aspects is Trust and satisfaction.

6.4 Sustainability Plan

Today, the internet may have grown to be a sizable market capable of serving the entire world's population. Why is E-Commerce so alluring for many traditional firms the subject at hand. E-commerce is changing the way individuals conduct business. Enterprises of all sizes are using the internet to expand their product and service offerings to new demographics throughout the globe, from huge companies to tiny businesses. There are numerous ways to purchase your goods and services online at that location, ranging from straightforward shopping websites to sophisticated database-driven, data-capture, and online payment card confirmation systems. So, we can collect all the seller and buyer data. In the future if any person does anything wrong, we can easily catch them.

CHAPTER 7

Conclusion and Future Scope

7.1 Discussion and Conclusion

Today, the internet may have grown to be a sizable market capable of serving the entire world's population. Why is E-Commerce so alluring for many traditional firms is the subject at hand. E-commerce is changing the way individuals conduct business. Enterprises of all sizes are using the internet to expand their product and service offerings to new demographics throughout the globe, from huge companies to tiny businesses. There are numerous ways to purchase your goods and services online at that location, ranging from straightforward shopping websites to sophisticated database-driven, data-capture, and online payment card confirmation systems.

Bangladesh is a small, developing country, but it's time to change because technology is causing the world to move so swiftly every second. B2C e-commerce platforms are proliferating all over the world, particularly in several Asian nations, South Korea, China, India, and Japan. B2C e-commerce refers to the practice of trading goods and services electronically between businesses and consumers. Without an internet connection, e-commerce cannot grow. The complete infrastructure is necessary for the development, maintenance, and growth of B2C e-commerce.

7.2 Scope for Further Development

We have found some lacking in the current system. Now we are using the real-time database of firebase. In the future, we will use a dedicated server for the project. Users complain they have limitations after setting up a dedicated server can store a large amount of data. the other hand, now, our current location is working but the other two options are not working. In the future, we'll work more on it. We'll also develop the security part at an advanced level.

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