

**SOHOZOGI: A WEB-BASED SOLUTION FOR EVERYDAY LIFE**

**BY**

**MD. NAJMUL KABIR**

**ID:181-15-11321**

**HASIBUL HASAN**

**ID: 181-15-11038**

**FATTAH SIDDIK FAHAD**

**ID: 181-15-10606**

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

Supervised By

**Mr. Narayan Ranjan Chakraborty**

Assistant Professor

Department of CSE

Daffodil International University

Co-Supervised By

**Shah Md. Tanvir Siddiquee**

Assistant Professor

Department of CSE

Daffodil International University



**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**JANUARY 2022**

## **APPROVAL**

This Project/internship titled “Sohozogi: a web-based solution for everyday life”, Submitted by Md. Najmul Kabir, ID:181-15-11321; Hasibul Hasan, ID: 181-15-11038; Fattah Siddik Fahad, ID: 181-15-10606 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 02/01/2022.

### **BOARD OF EXAMINERS**



---

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

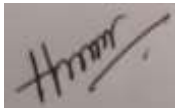
Chairman



---

Moushumi Zaman Bonny  
Assistant Professor  
Department of Computer Science and Engineering  
Faculty of Science & Information Technology  
Daffodil International University

Internal Examiner



---

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

Internal Examiner



---

Dr. Md Arshad Ali  
Associate Professor  
Department of Computer Science and Engineering  
Hajee Mohammad Danesh Science and Technology University

External Examiner

## DECLARATION

We hereby declare that, this Project has been done by us under the supervision of **Mr. Narayan Ranjan Chakraborty, Assistant 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.

### Supervised by:



---

Mr. Narayan Ranjan Chakraborty  
Assistant Professor  
Department of CSE  
Daffodil International University

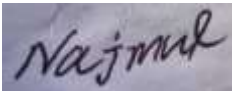
### Co-Supervised by:



---


Shah Md. Tanvir Siddiquee  
Assistant Professor  
Department of CSE  
Daffodil International University

### Submitted by:



---

MD. Najmul Kabir  
ID: -181-15-11321  
Department of CSE  
Daffodil International University



---

Hasibul Hasan  
ID: -181-15-11038  
Department of CSE  
Daffodil International University



---

Fattah Siddik Fahad  
ID: -181-15-10606  
Department of CSE  
Daffodil International University

## ACKNOWLEDGEMENT

First we express our heartiest thanks and gratefulness to Almighty God for His divine blessing making us possible to complete the final year project/internship successfully.

We are grateful and wish our profound indebtedness to **Mr. Narayan Ranjan Chakraborty, Assistant Professor**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in “Web application development” to carry out this Project. His endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts, and correcting them at all stages have made it possible to complete this Project.

We want to express our heartiest gratitude to **Professor Dr. Touhid Bhuiyan**, Head of, Department of CSE, for his kind help to finish our Project, other faculty members, and the staff of the CSE department of Daffodil International University.

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

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

## **ABSTRACT**

Sohozogi is made with an ambition and goal to bring a modern highly scalable web solution by creating a multi-purpose real time application. Sohozogi dreams provide a hassle-free online experience to the users. It also helps the nation to reduce the unemployment problem, provide support to little startups and lastly smooth reliable experience for all users. In modernized Bangladesh there are many ecommerce sites but only few of them are reliable. A major problem user needs to use multiple websites multiple times for different purposes which is not convenient at all. Moreover, the sites cut a huge amount from the sole income of little businessman's and delivery heroes. By creating a web application that has the flavor of other relevant services that a user might need on daily purpose. We found that Sohozogi eliminates the problem of using multiple websites for different purposes by bringing every daily need into a single web application. Sohozogi also offers to join as a shop owner or as a delivery hero by which the unemployment problem is reduced. Not everything is perfect in the world, so Sohozogi also has some lacking. The major limitation of Sohozogi is it doesn't have any mobile application which is very much essential. Another problem of Sohozogi is that the web application is not SEO friendly and also not professionally optimized. Every people from of Bangladesh can take all the services provided by Sohozogi.

# TABLE OF CONTENTS

<b>CONTENTS</b>	<b>PAGE</b>
Approval Page	i
Declaration	ii
Acknowledgments	iii
Abstract	iv
<b>Chapter 1: Introduction</b>	<b>1-4</b>
1.1 Introduction	1
1.2 Motivation	1-2
1.3 Objectives	2
1.4 Expected Outcomes	2-3
1.5 Project Management and Finance	3-4
1.6 Report Layout	4
<b>Chapter 2: Background</b>	<b>5-6</b>
2.1 Preliminaries/Terminologies	5
2.2 Related Works	5
2.3 Comparative Analysis	5
2.4 Scope of the Problem	6
2.5 Challenges	6
<b>Chapter 3: Requirement Specification</b>	<b>7-16</b>
3.1 Business Process Modeling	7
3.2 Requirement Collection and Analysis	8
3.3 Use Case Modeling and Description	9-13
3.4 Logical Data Model	14-15
3.5 Design Requirement	16

<b>Chapter 4: Design Specification</b>	<b>17-18</b>
4.1 Front-end Design	17
4.2 Back-end Design	17
4.3 Interaction Design and User Experience (UX)	17
4.4 Implementation Requirements	18
<b>Chapter 5: Implementation and Testing</b>	<b>19-36</b>
5.1 Implementation of Database	19-20
5.2 Implementation of Front-end Design	20-35
5.3 Testing Implementation	35-36
5.4 Test Results and Reports	36
<b>Chapter 6: Impact on Society, Environment and Sustainability</b>	<b>37-38</b>
6.1 Impact on Society	37
6.2 Impact on Environment	37
6.3 Ethical Aspects	37
6.4 Sustainability Plan	38
<b>Chapter 7: Conclusion and Future Scope</b>	<b>39-40</b>
7.1 Discussion and Conclusion	39
7.2 Scope for Further Developments	39-40
<b>References</b>	<b>41</b>

## LIST OF FIGURES

<b>CONTENTS</b>	<b>PAGE</b>
Figure 3.1: Business Process Modeling	7
Figure 3.2: Use Case Modeling	9
Figure 3.3: Logical Data Model	15
Figure 5.1.1: Implementation of database	19
Figure 5.1.2: Cart collection	20
Figure 5.2.1: Sohozogi's landing page	21
Figure 5.2.2: Categorized food navigation	22
Figure 5.2.3: Medical Products	23
Figure 5.2.4: Request Option	23
Figure 5.2.5: Registration option for delivery hero	24
Figure 5.2.6: Registration option for shop owner	25
Figure 5.2.7: Product details modal	26
Figure 5.2.8: The product cart	27
Figure 5.2.9: Checkout Page	28
Figure 5.2.10: Order tracking page	28
Figure 5.2.11: News page	29
Figure 5.2.12: News detail page	30
Figure 5.2.13: Community activity	31
Figure 5.2.14: Add products	32
Figure 5.2.15: Update user order	33
Figure 5.2.16: Delivery queue	33
Figure 5.2.17: Shop owner and delivery hero's request	34
Figure 5.2.18: Post news	35
Figure 5.4: Test results and reports	36



# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

Sohozogi is a modern high performance web application that makes a person's daily life easier and simpler. It offers a wide range collection that a person might need from his morning sunshine to late night bed. Sohozogi is a perfect daily companion to fulfill one's day to day every need by bringing all in just one click away. Sohozogi is a smooth robust web application running on React Js, Node Js, Express Js and MongoDB. Moreover, Sohozogi will create an impact to reduce unemployment and also create new business opportunities by creating an open platform for small entrepreneurs and businessmen. This will also add a new dimension in the economy.

### 1.2 Motivation

In the modern tech war, a consumer always tries to have a smooth, comfortable and convenient user experience from a web application. But for day-to-day life one need to visit multiple platforms like food ordering, reading news, get groceries, sell products or for shopping. For every purpose one uses a different site which is a big hassle. Many of them think it would be so convenient if they could find everything in one place.

Consumers also need to memorize from where they would buy the product. If the one they are currently using is reliable or not. Will they receive the ordered goods in time and in good condition they are not sure. Almost every consumer has trust issues in online platforms. They are always in panic while ordering from online.

Now let's come to the current scenario where we can see big ecommerce sites shutting down without returning money or product to the consumer [1]. On the other side there is also some money laundering issue. Many platforms offer huge discounts which ultimately make their pocket empty and don't let them sustain anymore [2].

If we ignore that we can't ignore the unemployment situation occurring because of shutting down this monster ecommerce sites.

At the moment consumers, business men and work holders all need a sustainable, reliable and trustworthy platform where they can find all their necessary products in one place, making their life more convenient and most importantly trustworthy.

### **1.3 Objective**

The main objective of Sohozogi is to provide a convenient, user-friendly real time web platform. Sohozogi meaning in English is assistant and an assistant always makes your life and work easier. Sohozogi works on that. It becomes your daily companion. Reduces the hassle of finding your desired product from different places. The ambition of Sohozogi is to

- Simple and convenient web platform
- One platform for all needs
- Making comfortable user experience
- Sustainable, low cost and effective
- New dimension of business
- Creating new job opportunity
- Helping the economy
- Daily updates

Sohozogi will be a simple, convenient but robust and feature full web platform to make interaction with users. Sohozogi will be offering a wide range of collections for daily needs. From your morning bread to late night home dinner, buy and sell products, daily news update, ecommerce experience and a wide range of community. It will be regularly maintained and will be a sustainable one.

### **1.4 Expected outcome**

Team Sohozogi is highly motivated and always looks forward to providing the best possible outcome. The current expectations from Sohozogi are enlisted below.

- This platform will bring grocery shops, ecommerce, pharmacies, and food ordering systems to one place.
- Sohozogi user will be able to check daily news and weather forecast from the application
- User also will be able to buy and sell their used products
- There will be a community system for fast response.
- Business owners will be able to create their own shop and sell products in Sohozogi
- Delivery heroes will be able enroll themselves and take orders independently with our providing any commission to Sohozogi
- The admin panel will be able to keep track of everything and modify when needed.

### **1.5 Project management and finance**

Sohozogi is a very large application. Developing a large project needs good project management. Team members had specified tasks to do every week. We are committed to the deadline. To develop our application, we followed the standard software development life cycle.

For Database we will use MongoDB. We use the dedicated package for our project. This package's price is 57\$ per month [3]. It provides us 10gb storage and 2 GB ram. Approximately it will be cost  $57\$ \times 12 = 684\$$  per year for our project.

For hosting we will use Firebase (pay as you pack plan) for our project. This plan's cost depends on our use. So, there is estimated price for 1GB both Storage and data transfer. It charges 0.026\$ for 1gb data storage and it also charges 0.15\$ for 1gb data transfer rate [4].so approximately we can say it will cost 10\$ per month for our project and for early it will take  $10 \times 12 = 120\$$ .

We choose a domain for our project and it is Sohozogi. It will be 2\$ per year. So total cost for one year would be  $\$(684+120+2) = \$806$ . In Bangladeshi taka it would be 69079 BDT/year. This is an assumption for one year. As we had no funding at the moment so we

are used free services from different places. For keeping the project safe we used GitHub and for team communication mostly used telegram.

## **1.6 Report Layout**

Team Sohozogi is determined and completely focused on developing the web application within time bound. For the documentation purpose we will create project report and the report will be divided in seven chapters as mentioned below .

Second chapter, background: In this section the discussion will be analysis related. We will discuss various aspects, pros and cons of the project. Moreover, we will also look for related projects and find what unifies our application and goal. We also discuss feasibility analysis where we will talk about challenges of the development process.

Third chapter, requirement specification: From our previous section we know what we will provide and what challenges we might face. Now it's time for determining what features we will provide and how they will be working. For this purpose, we will use some models and diagrams to make a visual of requirements. We will show use case diagrams, business process modelling and many more.

Fourth chapter, design specification: As our requirements are ready now its high time to design the structure. In the world of web applications, look always matters. Along with that the application must ensure that the interface is user friendly and interactive. Along with that we will also discuss the frontend and backend design of the application.

Fifth chapter: implementation and scope: Here the game begins. Here we will implement our design and will give it a real life. After that some standard testing procedure will follow and reports will be shown.

Sixth and seventh chapter: In this section we will discuss the applications impact, sustainability and will bring the conclusion by analyzing the future of the project. This was all about the report layout.

## **CHAPTER 2**

### **BACKGROUND**

#### **2.1 Preliminaries**

The current scenario in Bangladesh shows that the ecommerce platforms are in a turmoil condition. Consumers find it very difficult to search on different websites for different needs. Moreover, the active websites are not properly trustworthy. Small business startups can't get enough attention. Lastly the delivery heroes work very hard and need to provide a good amount of commission. This thing needs a sustainable solution. A platform that can eliminate these problems is much needed.

#### **2.2 Related works**

Our project came up with a unique idea. A few years back there was a mobile application named as Tapzo which also combined so many platforms in one place [8]. But as our site also seems like an ecommerce site then some related platforms can be “Daraz”, “Alesha Mart” etc. Also, our application will have a food ordering system. So, then it can be similar to “Foodpanda”. Lastly, as it also has some grocery and pharmacy shops, it can be compared with “Aroggo”, “ChalDal” etc. In 2016 there was a mobile application named ‘Tapzo’ which also had similar concepts like ours. But in 2019 the app was discontinued.

#### **2.3 Comparative analysis**

There are lot of similar platforms available like ours. They also provide multi-vendor multipurpose web applications along with a delivery system. The things that make us unique is our merging of different applications in one place. By using this platform, a user can easily find all the needs in one place. Here with the word need I am meaning foods, grocery, attire shopping, medicines and other daily needs. This will make the user experience online more convenient. Along with that, users can get daily news updates and buy and sell products from the same platform. Users also can use the help forum to get quick help from the community.

## **2.4 Scope of the problem**

The best way to find scope of the problem is asking the end users what they want and what they don't want in a daily basis web application. By asking this our findings are

- Users don't want to use multiple platforms for the same need.
- They want all the things in one place.
- Users need a robust, sustainable and user-friendly platform where they can also start business.
- Delivery heroes don't want to give large commission

According to these problems our web application will provide the best possible solution.

## **2.5 Challenges**

It said that 'Every day is a new challenge till your death'. So does our project also have some challenges. They are mentioned below

- Our goal is to provide you with a daily companion but Sohozogi doesn't work without the internet. So, if a user doesn't have an internet connection, he/she won't be able to enjoy our service.
- Another challenge is as Sohozogi is completely web based so users must have a browser either in desktop or mobile else they can't browse us.
- A major challenge of Sohozogi is totally dependent on shop owners' enrollment. If there is no enlisted shop owner and they don't sell items and the site will completely look like a desert.

# CHAPTER 3

## REQUIREMENT SPECIFICATION

### 3.1 Business Process Modeling

Business process modeling is the analytical depiction or a visual representation of an organization's business operations [5]. Process modeling is a vital component of business process management that cannot be overlooked. You can see our project bpm model in figure 3.1.

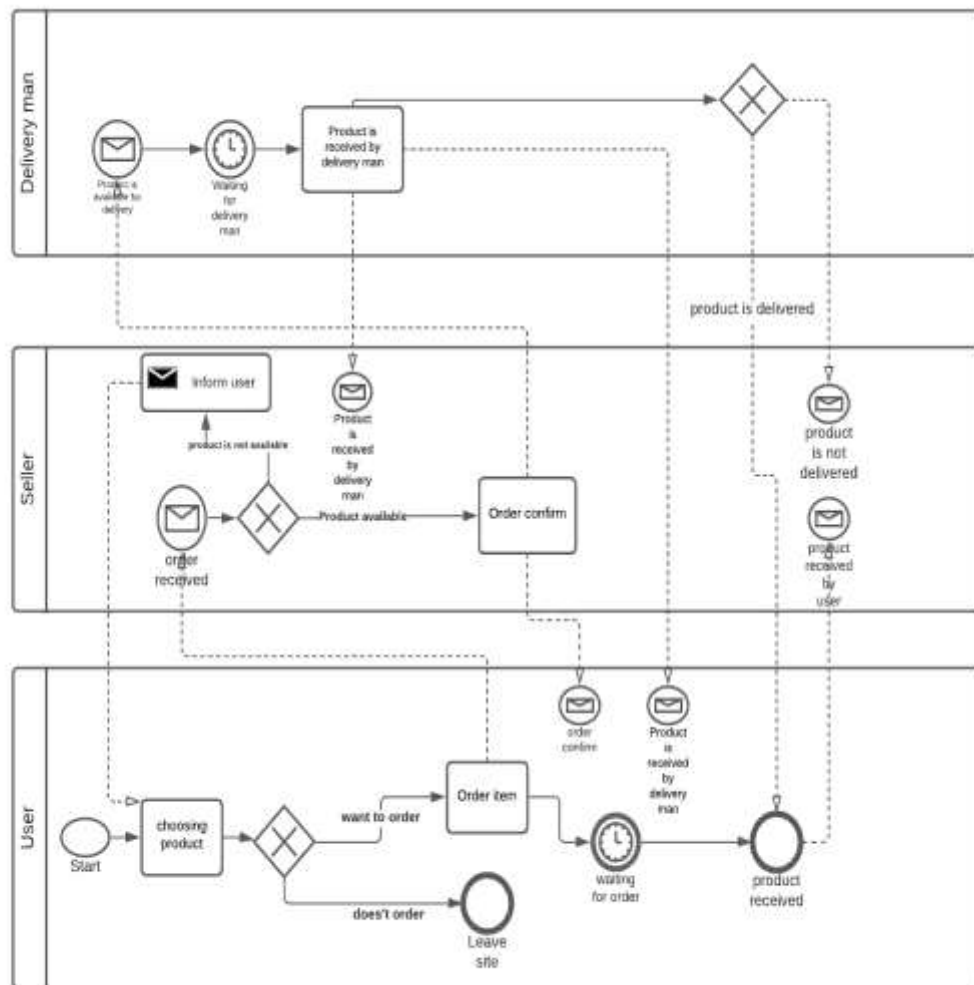


Figure 3.1: Business Process Modeling

### **3.2 Requirement Collection and Analysis**

This is an online base service system. As a result, the procurement requirements process must take into account all relevant factors. This is why needs at all levels and perceptions must be identified.

Software requirement:

- Users
- User's login system
- Time advantage
- Easy to accept

#### **Hardware and Software Requirements for our system:**

Prior to acquiring any software or hardware for a digital platform, it is critical to verify that the platform can meet the system requirements. PC meets the minimum system requirements for optimum usage of this software and hardware. As our product is online web application base system. So, we need minimum specification of a system which can run a browser. But if we want to developing phase of our system in new device, we need some tools which is given below.

- Visual studio code
- Git
- Node Js
- Browser





**Main Success Scenario:**

- Anyone can see the product

**Use case: Product details**

Primary actor: all Users

Secondary actor: Shop owner, delivery hero and admin

Precondition: No need to login

**Main Success Scenario:**

- Anyone can see the product detail

**Use case: View news**

Primary actor: all users

Prerequisite: there is available news in the section. The system time date function is upto date.

**Success:** user can read the news. Users can see news details, users can sort news with date order.

**Exception:** time and date settings of the system is not up to date

**Use case: Log in**

Primary actor: all user

Secondary actor: Shop owner, deliveryman and admin

Precondition: User, shop owner and delivery hero must have registered email and password in the system.

**Main Success Scenario:**

- The actor enters his or her email address in the email field.
- The actor inserts the password identification number into the password field.
- Simply click the Login button.

**Exception scenario:**

- The email address must be linked with the system

- Password is invalid.

**Use case: payment**

Primary actor: Users

Prerequisite: User have ordered product and confirmed via shop owner.

**Success:** User has chosen the desired payment method. User entered the credentials correctly, deducted balance from the users balance

**Exception:** User hasn't chosen any payment method, user filled up with wrong credentials, balance not deducted, translation errors.

**Use case: View community**

Primary actor: All users

Prerequisite: The user is logged in the system

**Success:** User can post in the community; users can comment on any post. Users can like posts, users can share points in the comment section

**Exception:** After sharing point either receiver didn't receive the point or not deducted from the provider's account

**Use case: Product order**

Primary actor: Users

Prerequisite: User must be logged in to the system

**Success scenario:** User viewed the product, user-added the product to the cart, user filled up billing address correctly user confirmed the order.

**Exception:** User didn't add anything in the cart, user messed up with the filled up billing address. The user didn't confirm the order.

**Use case: Payment**

Primary actor: Users

Prerequisite: User have ordered product and confirmed via shop owner.

**Success:** User has chosen the desired payment method. User entered the credentials correctly, deducted balance from the users balance.

**Exception:** User hasn't chosen any payment method, user filled up with wrong credentials, balance not deducted, translation errors.

**Use case: Add product**

Primary actor: Shop owner

Pre requisite: User must have a shop and have access to the specific shop

**Success:** Can add products in his shop. Added product will be displayed on the products page. Added products will also be available in the shop owner's premises.

**Exception:** Shop owner didn't filled up all the fields in the product adding form

**Use case: Manage products**

Primary actor: Shop owner

Pre requisite: Must have products in own shop.

**Success:** Will be able to update products and update will be displayed on products page and also in shop owner's page.

**Exception:** The given file format is not accepted by the server.

**Use case: Update order**

Primary actor: Shop owner

Prerequisite: User has placed an order from this shop

**Success:** Can update the status for the specific orders.

**Exception:** While updating placed the wrong status

**User case: Take order**

Primary actor: Delivery hero

Prerequisite: Shop owner has updated the user's order status to pick up.

**Success:** Can pick up an order of his own choice based on his current location. Can't pick one order twice. Can't take already taken order by another deliver hero. Users can see that order has been picked up by a delivery hero.

**Exception:** Delivery hero took the order but the user can't see the order.

**Use case: Update order status**

Primary actor: Delivery hero.

Prerequisite: Already taken an order from the delivery queue.

**Success:** Can update delivery status like 'taken', 'on the way, or delivered. Users can see the updated status.

**Exception:** Wrong status update bases on the current scenario.

**Use case: Manage users**

Primary actor: Admin

Pre requisite: Logged into the system as an admin

**Success:** Can add, remove user. Can change users' credentials.

**Use case: Manage requests**

Primary actor: Admin

Prerequisite: Logged into the system as admin.

**Success:** Can view all requests to become delivery heroes and shop owners. Can accept or reject requests

**Exception:** In case of accepting made reject decision.

### **3.4 Logical Data Model**

LDM means logical data model. It is possible to construct visual understandings of data entities, properties, keys, and connections using a logical data model, which is a sort of data model that specifies data pieces in detail [7]. To provide a fundamental framework for components of the semantic layer in data management systems. This kind of model must be completely independent of any particular database. The logical data model of our project shown in figure 3.3.

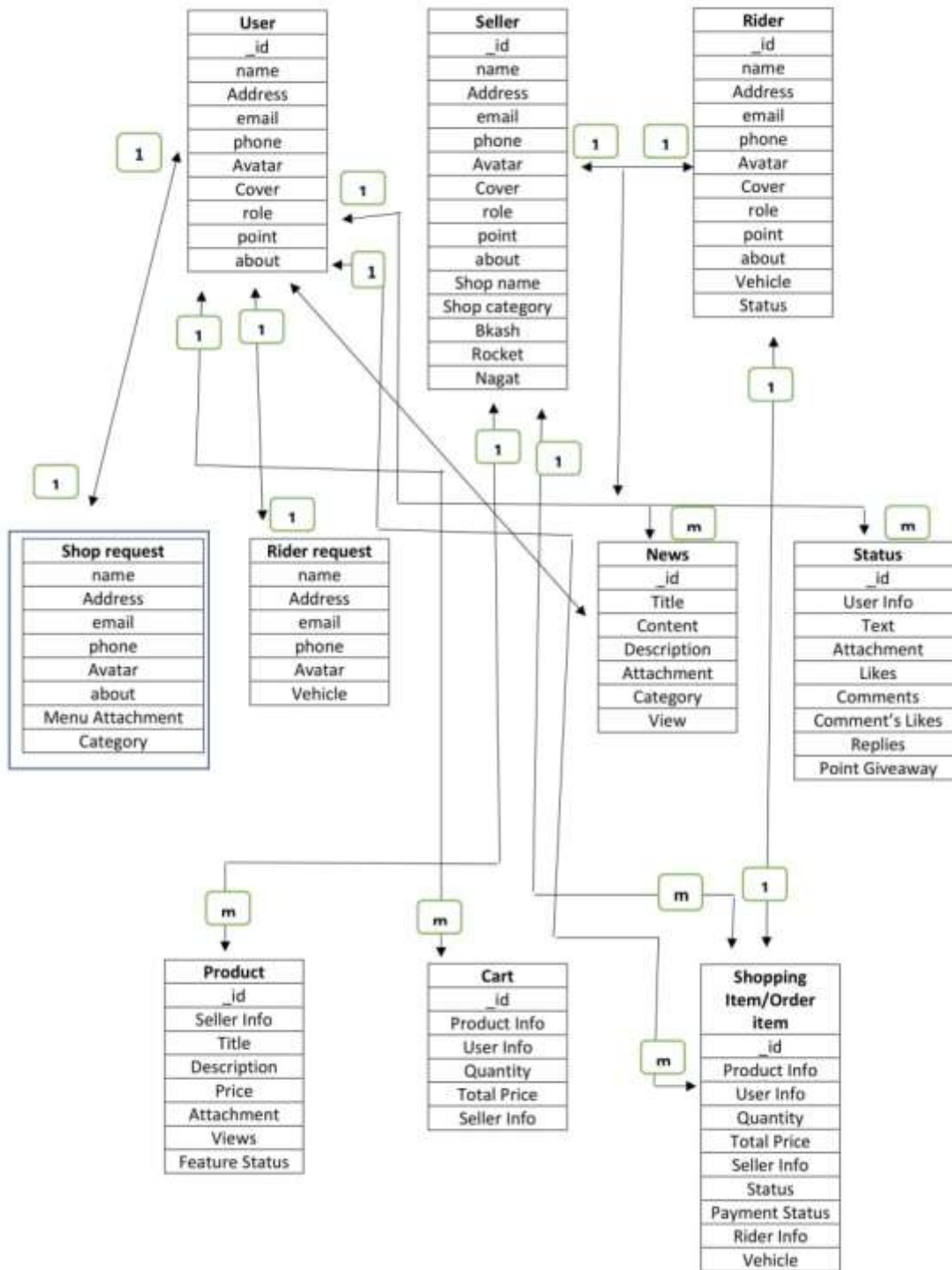


Figure 3.3: Logical Data Model

### 3.5 Design Requirements

During developing a web application, we have to consider aa number of factors. Because these factors ensure that the project is as efficient as possible. So, making the web application efficient we have to following below requirements or factors.

- Login activity
- Registration activity
- Home activity
- Navigation bar
- Profile activity
- Order activity
- News reading activity
- Community activity
- Shop owner activity
- Delivery activity
- Payment activity
- Admin panel activity



## **CHAPTER 4**

### **DESIGN SPECIFICATION**

#### **4.1 Front-end Design**

First impression always matters. A user will at first judge a web platform by its look. So the front-end design must be gorgeous. But it might increase the loading time that is why we also need to keep it simple. Firstly, we prepared a UI design. We have taken some inspiration from a website called 'KachaBazar' [9]. Then we measured all the aspects and also prepared a responsive UI design for the front end of the project Sohozogi. We also determined which things we will use to give the UI design a real life. We decided to use React Js along with React Bootstrap.

#### **4.2 Back-end design**

We divided our backend part in two segments. First one is authentication. In a web application a perfect strong authentication system is a must thing. The second one is database design. Our project is API based. So, we used an online cloud storage. The database we used is MongoDB which is a NoSQL database. We used a NoSQL database because our website will have a large amount of data and NoSQL handles this at better speed. Also, it provides us to update db. without any rules like sql.

#### **4.3 Interaction Design and User Experience (UX)**

Interaction design and user experience is our first priority because team Sohozogi is committed to provide user friendly and interactive design for the users. To make that happen we used the following approaches. These things will make the user experience top notch.

- Light color combination
- Simple UI design to find things quickly
- Search button always there to quickly find the desired thing
- Hove effects to make thing more visible
- Interactive animations
- Content set in a pattern that user can't rid him to scroll to bottom

- Every product is properly organized so that user may find them easily

#### **4.4 Implementation of requirements**

Our requirement analysis is already mentioned earlier. We extracted what features we are going to provide. To implement our requirements, we decided to use a famous full stack combination known as MERN stack. We will use mongo dB for storing our data. React Js will be used to make our front end alive. To create restful apis we will use node js along with its framework express js. Moreover, we will use some more libraries like react axios, react slick, react toastify etc. We will create every feature part by part and then combine them together. Lastly, we will connect our front end with our backend and make api calls.



```

{
  - user: {
    id: "619696dd17598aa3972b30c5",
    name: "siam",
    email: "siam@gmail.com",
    phone: "01755770538",
    address: "Faridpur",
    point: 209
  },
  _id: "61aa4a82bd84cf7661352ed7",
  - products: {
    - sellerA: {
      id: "617c28a3b504054e8fb23bf7",
      name: "test",
      email: "test@gmail.com",
      phone: "+8801711121111",
      shopname: "test",
      address: "Faridpur",
      catagory: "Pharmacy"
    },
    _id: "61a9e0316fd004c1992cd067",
    title: "asaaaaaaaaaaaa",
    description: "asxs",
    price: 123,
    avater: "pexels-chevanon-photography-325044-1638522929132.jpg",
    views: 3,
    feature: "false",
    createdAt: "2021-12-03T09:15:29.198Z",
    updatedAt: "2021-12-03T15:34:38.800Z",
    __v: 0
  },
  quantity: 1,
  totalPrice: 123,
  selerId: "617c28a3b504054e8fb23bf7",
  createdAt: "2021-12-03T16:49:06.048Z",
  updatedAt: "2021-12-03T16:49:06.048Z",
  __v: 0
},
}

```

Figure 5.1.2: Cart collection

## 5.2 Implementation of Front-end Design

A major thing of a web application is front-end of the of the website. Front end is the place where what is directly viewed to users. User’s interactions occur here. A well-furnished and responsive frontend plays a vital role in the system. Team Sohozogi deeply worked on the front-end design of the project. We have looked in to a e-commerce platform from themeforest made by ‘Venam’ to have some better front-end idea [10]. The team tried outmost to make the design interactive easier and well performed in the same time.

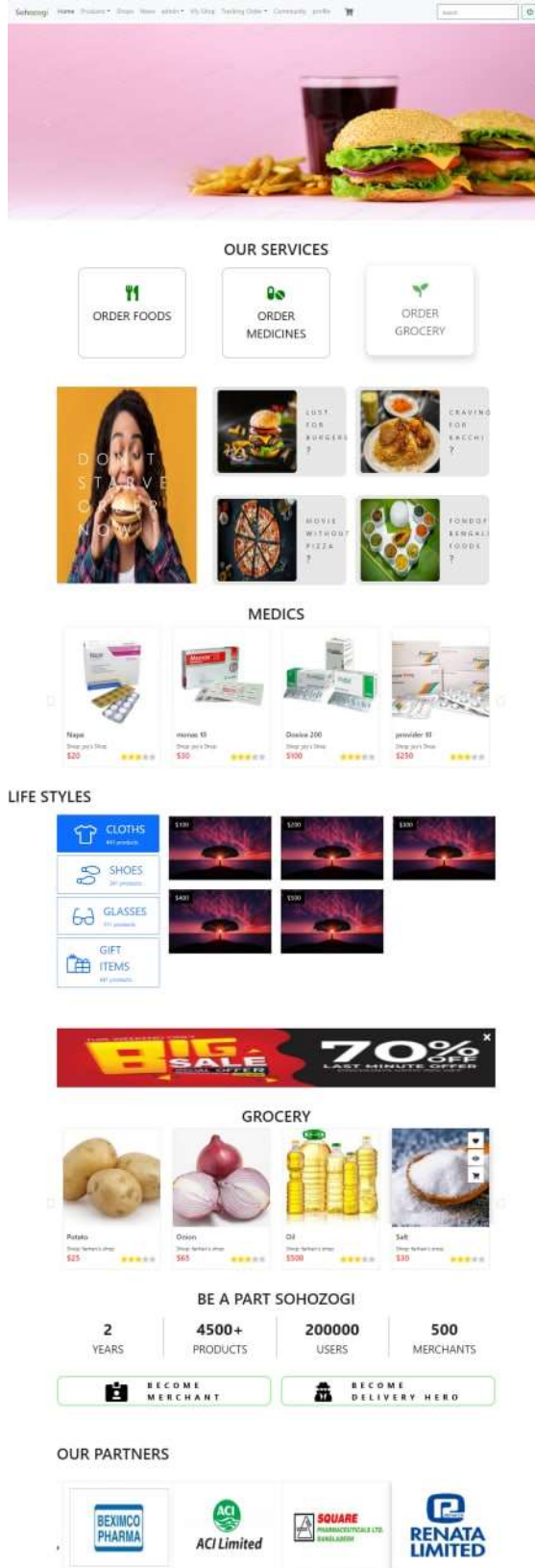


Figure5.2.1: Sohozgi's landing page

Sohozogi web application's home page designed in a unique and organized way so that user can easily find and navigate in chosen direction. In the figure 5.2.1 our landing page is shown. In the first part we implemented a carousel where user can see the trending updates for the website. In the next section a categorized sorting system is added so that user can find their necessary products very quickly from the shop.

As per the application we requirement Sohozogi also have food ordering system. For users' convenience a quick categorized food searching option is added shown in figure 5.2.2.

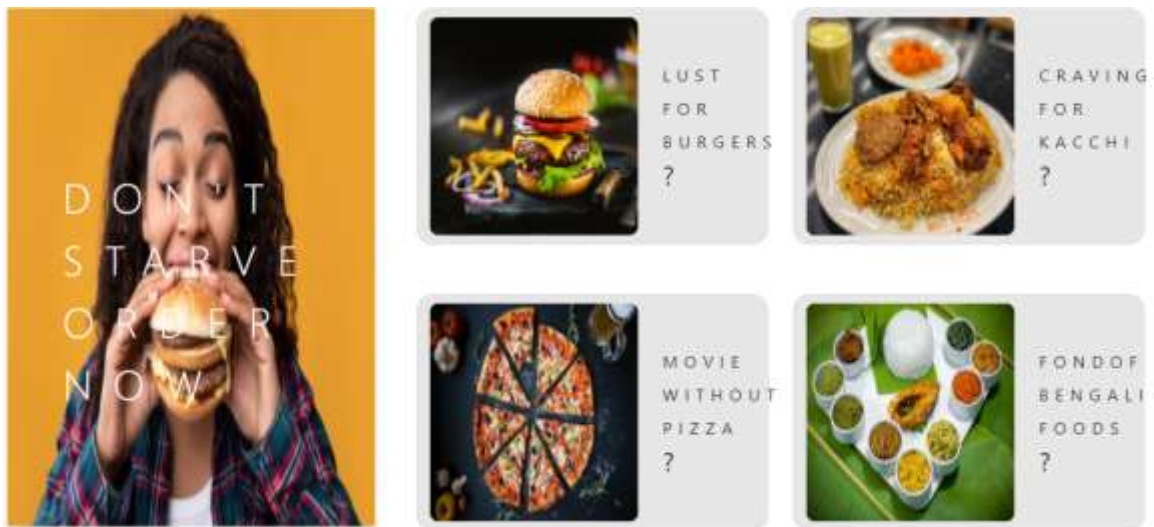


Figure 5.2.2: Categorized food navigation

This also attracts users to engage more in application and indirectly force them to purchase foods. Later in this section more products displayed so that user can see what our inventory consists of. This implementation is shown in fig 5.2.3.

## MEDICS

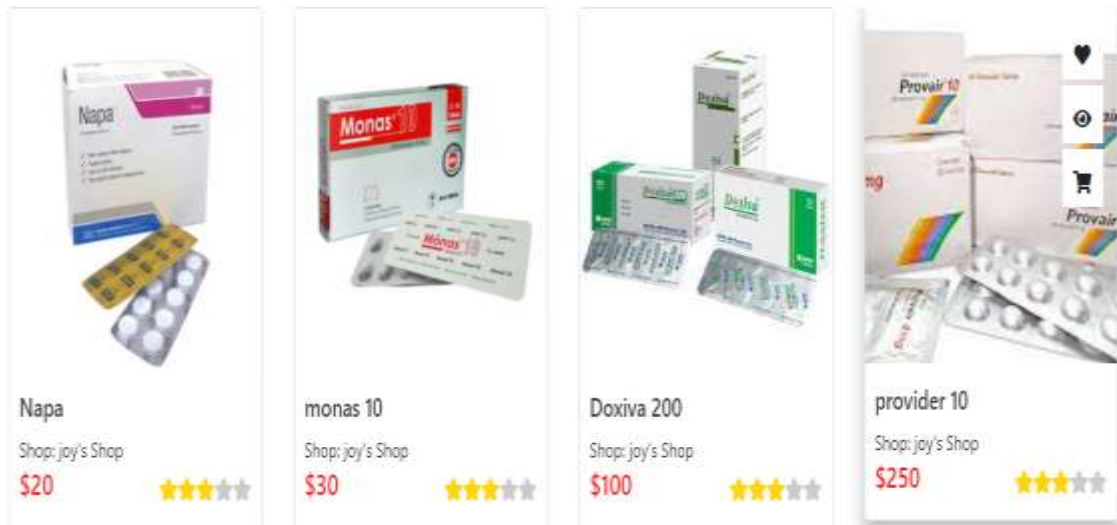


Figure 5.2.3: Medical Products

User can also request to become shop owner or a delivery hero. In figure 5.2.4.



Figure 5.2.4: Request Option

these two buttons take them to register page for the purpose which is shown in figure 5.2.4.

In figure 5.2.5 we are trying to show the delivery hero registration form. By filling the required option of registration form a person can become a delivery hero.



### Create Your profile

Username:

Address:

Select vehicle:

Email:

Phone:

Password:

Choose file:

**ভাল বেতনের সুযোগ**  
 ডেলিভারির ক্ষিতিতে আপনি অফর করতে পারেন মাসে  
 ২৫০০০ টাকা পর্যন্ত! আপনি আপনার নিজের  
 মোটরবাইক বা সাইকেল নিয়ে আসুন



**কাজের সময় নির্ধারণ করুন  
নিজেই**  
 আপনি পর্ট-টাইম মন বা ফুল-টাইম, আপনি নিজেই বেছে  
 নিতে পারবেন আপনার পছন্দ অনুযায়ী কাজের সময়।

**আবেদন করার জন্য যা প্রয়োজন**

- এনআইডি ফোন ১৬.২ বা ১৬২৬ নম্বর) অথবা আইডিফোন ১৬ বা ১৬২৬ নম্বর।
- পাইকেল, দুটোর অথবা মোটরবাইক।
- ডেলিভারি পরিচয় পত্র
- বয়স যেকোনো ১৮+

Figure 5.2.5: Registration option for delivery hero



In figure 5.2.6 we are trying to show the shop owner registration form. By filling the required option of registration form a person can become a delivery hero.

The screenshot shows the Sahazogi website's registration form for shop owners. The form is titled "Interested? Fill in the form below to become our partner and increase your revenue!". It includes the following fields and options:

- Registration type: "To sign up via Facebook (8607771123)" and "To sign up by yourself please fill in below form."
- Email: "siam@gmail.com"
- Phone: "818829401088"
- Password: "\*\*\*\*\*"
- Profile picture: "Choose File" (No file chosen)
- Menu item list: "Choose File" (No file chosen)
- Address: "farkpur"
- Submit button

### How it Works



Restaurant accepts the order through the tablet we provide, and starts preparing the food for a specific pick up time.



Restaurant accepts the order through the tablet we provide, and starts preparing the food for a specific pick up time.



Our rider arrives at the right time to collect and delivers the order within 30 minutes after the order was placed.



Foodpanda sends you the proceeds from your orders every month and provides deep insights on your performance.

[Get Started](#)

Figure 5.2.6: Registration option for shop owner




Users all so can view all products along with product details. To see the product details user, need to click on the details button and a pop-up modal will show the details. You can see the pop-up modal in figure 5.2.7. Users can add products to cart and proceed to checkout page. Both implementations shown respectively in figure 5.2.8 and figure 5.2.9. To track order user can visit the track order page shown in fig 5.2.10.



Figure 5.2.7: Product details modal

## Your cart

Start adding items to your cart

	Chicago Pizza	BDT 500 🗑️ 1 +
	Naga Burger	BDT 200 🗑️ 1 +
	Meat kacchi	BDT 150 🗑️ 1 +
Subtotal:		Tk 850
Delivery Fee:		Tk 0
VAT:		Tk 0
Discount:		Tk 0
<b>Total(Incl. VAT):</b>		<b>Tk 850</b>


 **Check Cart**

Figure 5.2.8: The product cart

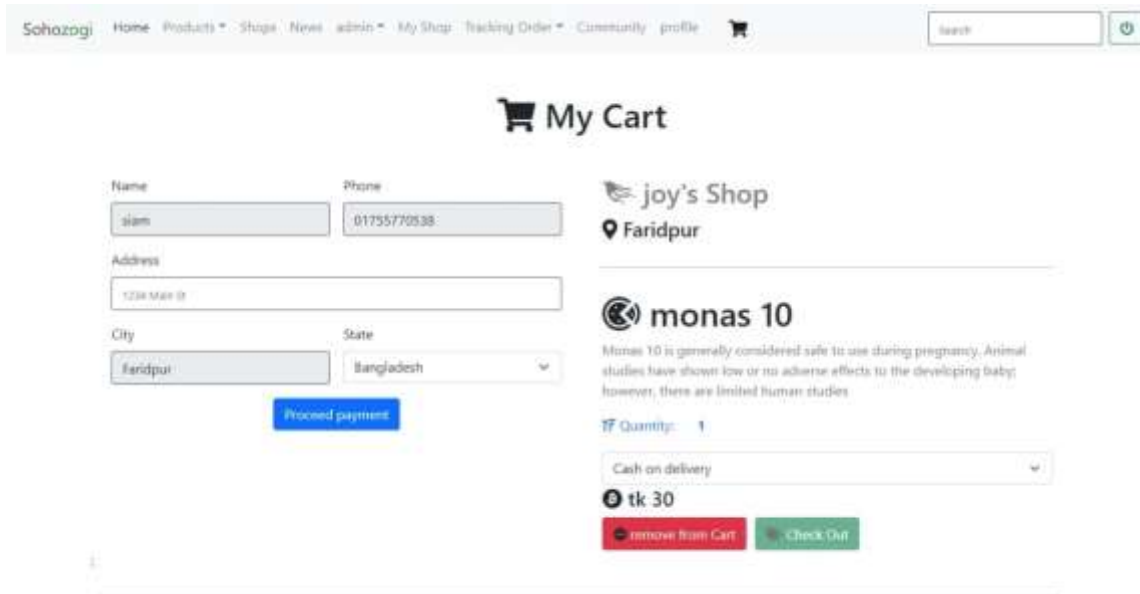


Figure 5.2.9: Checkout Page

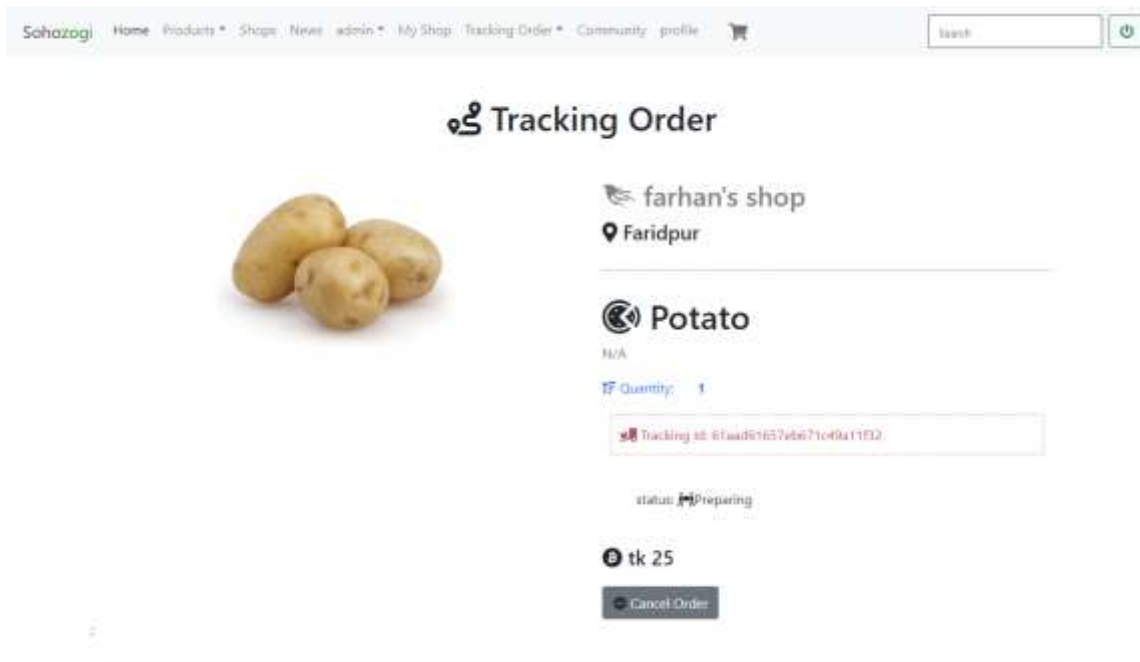


Figure 5.2.10: Order tracking page

User also able to use read news. An overview of news page is shown in figure 5.2.11. By clicking the news item user will be redirected to the details of the specific page he wanted shown in figure 5.2.12.



TRENDING NOW

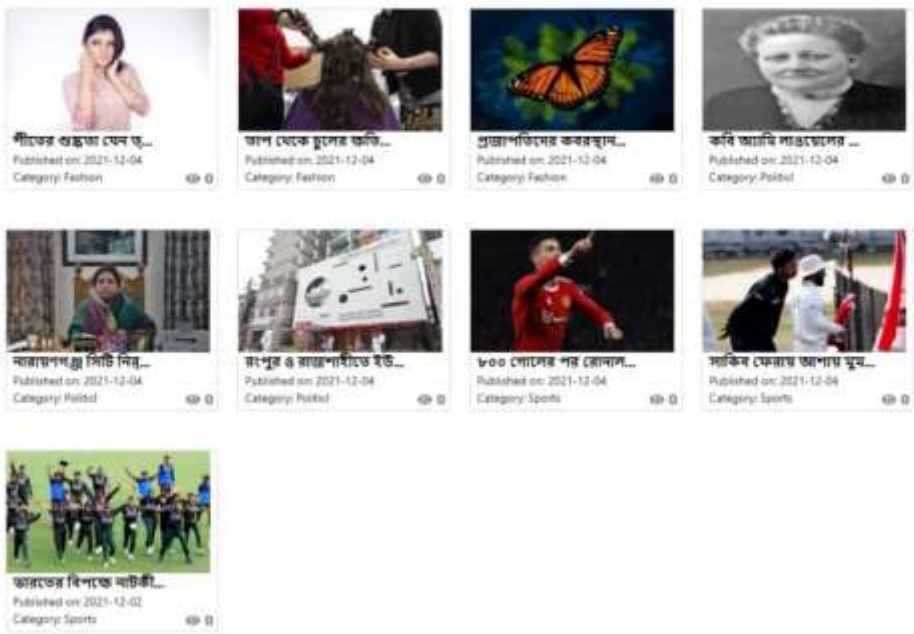


Figure 5.2.11: News page



## ভারতের বিপক্ষে নাটকীয় জয়ে যুবাদের তিনে তিন

📰 Sports

Published At: Thu Dec 02 2021



ব্যাট হাতে আবারও আলো ছড়ালেন প্রান্তিক নওরোজ নাবিল। তার ও মাহফিজুল ইসলামের ফিফটিতে লড়ার মতো পূঁজি পেলে বাংলাদেশ অনূর্ধ্ব-১৯ দল। রান তাড়ায় জয়ের খুব কাছেই ছিল ভারত অনূর্ধ্ব-১৯ 'এ' দল। শেষ ৭ বলে তাদের দরকার ছিল কেবল ৯ রান, হাতে তখনও দুই উইকেট। সেখান থেকে দুর্দান্ত বোলিংয়ে ম্যাচ বের করে নেয় সফরকারীরা।

কলকাতার ইডেন গার্ডেনে বৃহস্পতিবার তিন দলীয় যুব ওয়ানডে পিরিজের রোমাঞ্চকর ম্যাচে ৬ রানে ডিফেন্ডে বাংলাদেশ। ২০১ রানের লক্ষ্য দিয়ে প্রতিপক্ষকে তারা খনিজে নিয়েছে ২২৩ রানে। পিরিজ এই নিচে টান বিন ম্যাচ জিতল বাংলাদেশের যুবরা। পঞ্চদশ টেবিলে লাই সবর শীর্ষে অরাই। আগের ম্যাচে পেপুলি করা নাবিল এবার যেমন ৬২ রানের ঘনিপে। মাহফিজুলের ব্যাট থেকে আসে ৫৬ রান। ব্যাট করতে আসেনের ব্যর্থতার ২৩০ রানে গুটিয়ে যায় বাংলাদেশ। দারুণ ব্যাটিংয়ে ভারতকে ভারের শেষে এগিয়ে নিয়ে যাচ্ছিলেন অংকুশ রত্নকানিশি। ৮৮ রান করে এই ব্যাটসম্যানের বিঘারের পরে ম্যাচ ছিল ভারতের মুঠোয়। ৫৩ রান দরকার ছিল ৫৫ বলে, হাতে উইকেট ছিল পঁচাত্তি। পরে অরুণ তিনজনকে মরালেও অরুণের পরা হারি ছিল ভারতের দিকেই। দুই উইকেট হাতে নিয়ে শেষ ১৬ বলে ১৭ রানের সহজে সমীকরণ মেলাতে পারেনি দলটি। শেষ ওভারে প্রথম চার বলের মধ্যে সেই উইকেট দুটি নিয়ে প্রতিপক্ষকে গুটিয়ে দেন অনাক্রিম হাসান। ২৯ রান নিয়ে মোট ৩ উইকেট নেওয়া এই পেসার সেরে ম্যাচ সেতার পুরস্কার। টম বেহে ব্যাটিংয়ে নামা বাংলাদেশের স্তরটা কাপেই ছিল। মাহফিজুল ও ইফতেখার যেসেন উদ্বোধনী জুটিতে দলকে এনে দেন ৫০ রান। এরপরই বিশিখ রেড্ডির বলে ক্যাচ দিয়ে বিনায় দেন ইফতেখার। এরপর দলকে এগিয়ে নেন মাহফিজুল ও নাবিল। তাদের ৬৮ রানের জুটি ভাঙে নিশান্ত সিদ্ধুর বলে মাহফিজুলে বোল্ড হলে। এই ওপেনার ৮ চার করেন ৫৬। ওই ওকারেই আঁখি মোল্লাকে ছাড়ায় বাংলাদেশ। দারুণ খেলাতে থাক নাবিল কাটা পড়েন রান আঁট্টে। ৬২ রান করেন তিনি ১০ চারে। এরপর আর কোনে ব্যাটসম্যান করতে পারেননি ব্যু রান। তেমন কোনে জুটিও পারনি বাংলাদেশ। সফরকারীদের অস্ত্রতে আঁকে দেওয়ার করিগর বিশিখ। দারুণ বোলিংয়ে ৫৩ রান নিয়ে ৫ উইকেট নেন তিনি। ভারতের রান তাড়ায় খিটখিট ওকারেই হারনুর সিংয়ের সাপ্প এলেমেদো করে দেন রিপন মণ্ডল। এরপর ঘুরে দাঁড়ানোর চেষ্টায় হাকা নিশান্ত ও অংকুশের ৪২ রানের জুটি ভাঙেন রকিবুল হাসান। পরে অরুণ দুই উইকেট হারিয়ে যখন বিপাকে দল, তখন হাল ধরেন অংকুশ ও অরিরান দারুল। ৫ চার ও এক ছন্দার ৮৮ রান করা অংকুশকে মিলিয়ে ৬৩ রানের এই জুটি ভাঙেন রিপন। শেষ নিচে গার্ড অরুণ ও রাজানগড় করণার ব্যাট ভারতের খেে ছিল স্বাগতিকরা। ৪৮তম ওকারে এসে গার্ডকে ফেরান অনাক্রিম। শেষ ওকারে এসে দুর্দান্ত বোলিংয়ে দলকে ভারতের আনবে ভাসান এই পেসার। আগামী শনিবার ভারত অনূর্ধ্ব-১৯ বি মলের মুখোমুখি হবে বাংলাদেশের যুবরা। সংক্ষিপ্ত ফেডে বাংলাদেশ অনূর্ধ্ব-১৯ দল: ৪৭২ ওকারে ২৩০ (মাহফিজুল ৫৬, ইফতেখার ১৫, নাবিল ৬২, অরাই ৪, ফাহিম ২১, অরিরান ১০, মেহরর ৫, নাইমুর ২০, রকিবুল ১০, অনাক্রিম ৫, রিপন ৫, গার্ড ৭, ০-০-০৩-২, রাজানগড় ১০-০-৪২-০, বিশিখ ১০-০-৫৩-৫, মানভ ১০-০-৫৭-০, নিশান্ত ১০-০-৩৬-২) ভারত অনূর্ধ্ব-১৯ 'এ' দল: ৪৯৪ ওকারে ২২৩ (অংকুশ ৮৮, হারনুর ৮, নিশান্ত ২৩, ইরশ ১৫, দিনেশ ৬, অরিরান ৩৯, সিদ্ধার্থ ৬, রাজানগড় ১৯, গার্ড ১২, মানভ ৪, বিশিখ ০, অনাক্রিম ৯, ০-০-২৮-০, রিপন ৮-০-৫৩-২, রকিবুল ১০-০-৩৯-২, মেহরর ১০-১-৩৩-৩, নাইমুর ৯-০-৫০-১, অরিরান ৪-০-১৪-০) ফদে বাংলাদেশ অনূর্ধ্ব-১৯ দল ৬ রানে জয়ী মান অব দা ম্যাচ: অনাক্রিম হাসান

Figure 5.2.12: News detail page

User also can perform community activity like watching posts, create posts, comment on post and also sharing points with other users. This is shown in figure 5.2.13.

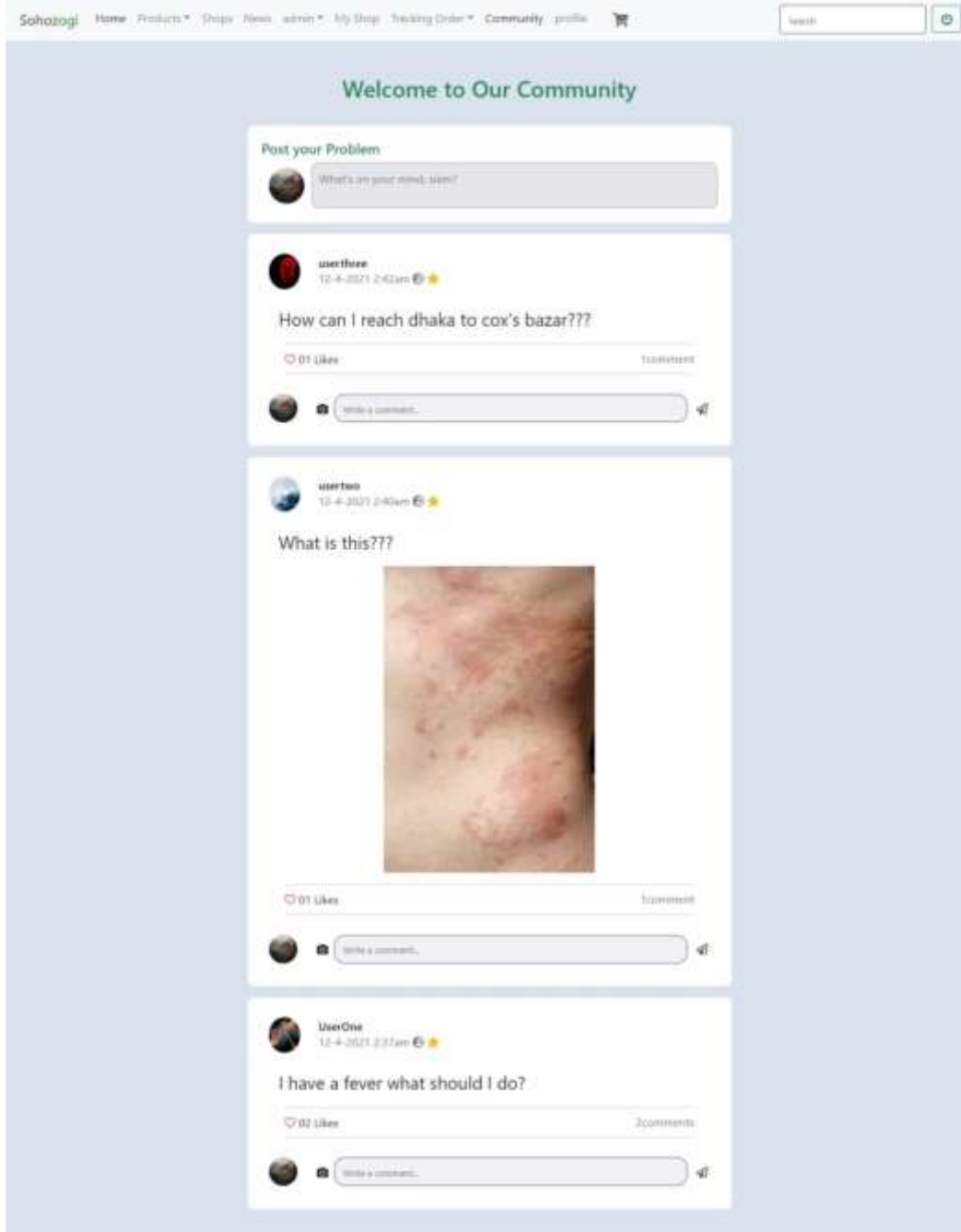


Figure 5.2.13: Community activity

The shop owners can manage and add products in the inventory. They also can update users order status. In figure 5.2.14 and figure 5.2.15 the implementation is shown. This was a critical part of the application. Moving ahead a deliver hero can take order and update order status shown in figure 5.2.16.

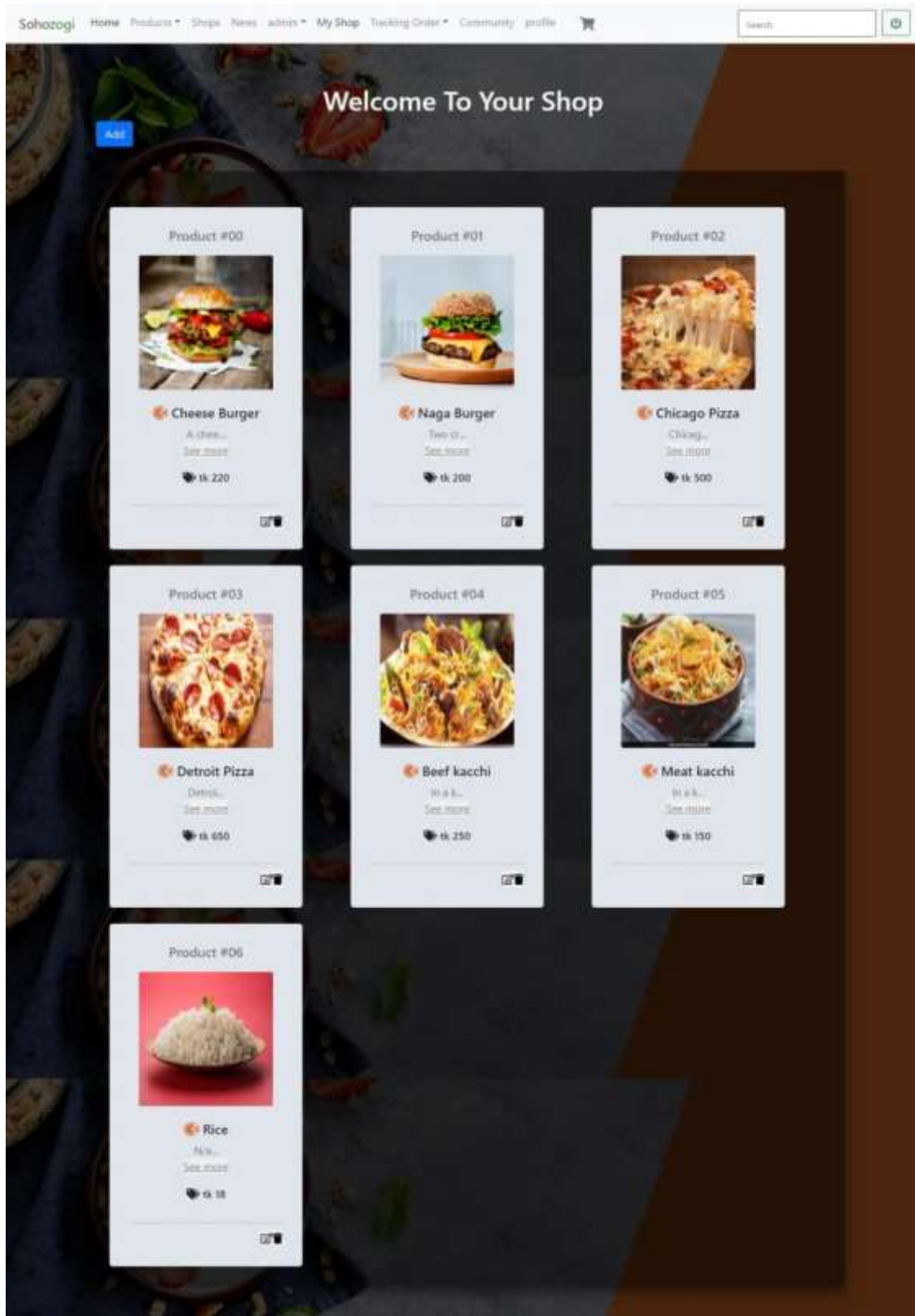


Figure 5.2.14: Add products



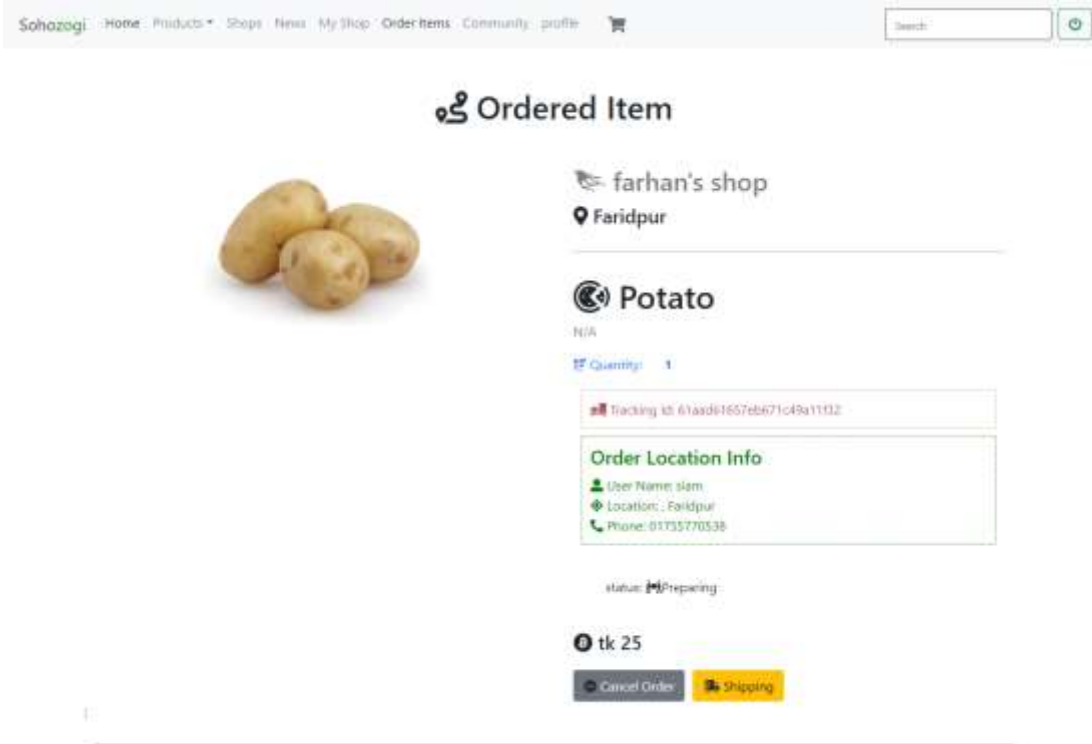


Figure 5.2.15: Update user order

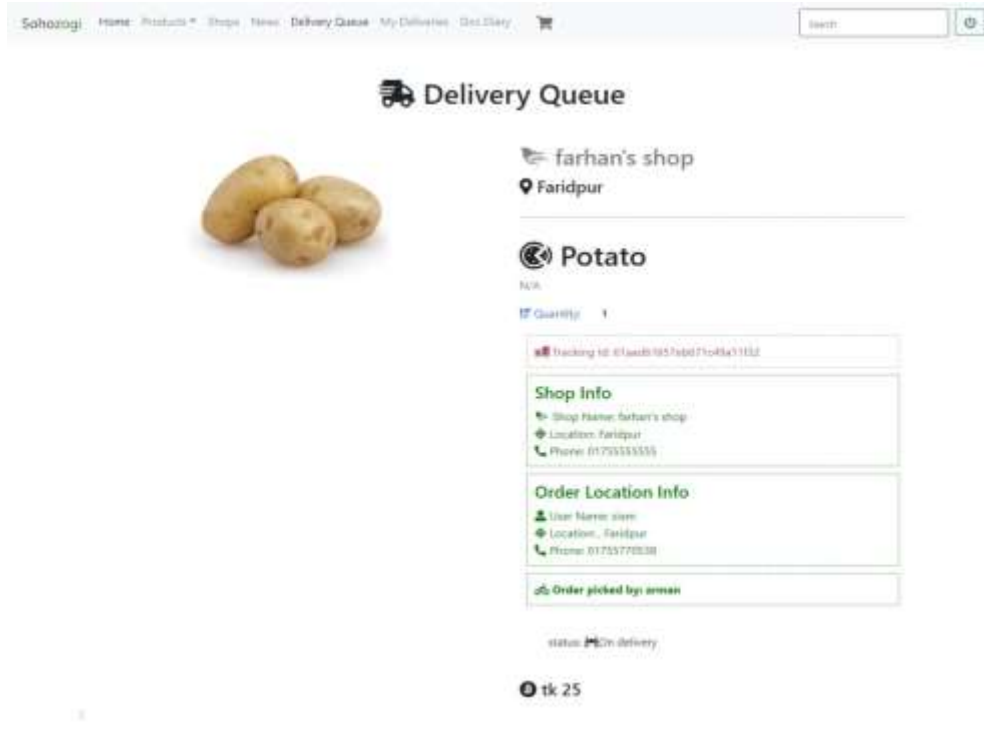


Figure 5.2.16: Delivery queue

Lastly the admin can see new requests for shops and delivery heroes. The admin also can add news in the news page. The perform activities of admins shown in figure 5.2.17 figure and 5.2.18.



#	Shop Name	Requested At	Action
1	joy's Shop	Sat Dec 04 2021	More
2	ferhan's shop	Sat Dec 04 2021	More

Figure 5.2.17: Shop owner and delivery hero's request

Sohozogi Home Products Shop News admin My Shop Tracking Order Community profile

### Post news

Title

Content

Description

Category

upload cover photo

### Preview

Filter date

#	Author	Published Date	Title	Action
01	siam	Sat Dec 04 2021	শীতের শুরু...	
02	siam	Sat Dec 04 2021	তাপ থেকে উ...	
03	siam	Sat Dec 04 2021	প্রজাপতিদে...	
04	siam	Sat Dec 04 2021	কবি আরম্ভি...	
05	siam	Sat Dec 04 2021	নারায়ণপাঠ...	
06	siam	Sat Dec 04 2021	ইংপুর ও স...	
07	siam	Sat Dec 04 2021	৬০০ মেসেজ...	
08	siam	Sat Dec 04 2021	সকিব কোরা...	
09	siam	Thu Dec 02 2021	ভারতের বিপ...	

Figure 5.2.18: Post news

### 5.3 Testing Implementation

Testing is a very essential part of application development. Without testing none can't assure that the system is running properly. There are many testing techniques. Primarily team Sohozogi performed alpha testing. In this phase the team initially checked if the all the features are working properly or not. Which is the part of white box testing. Later to check the backend implementation the team ran several tests by writing test cases and by giving many possible users commends to interact with backend. In ninety percent test cases

passed successfully. This was the part of Blackbox testing. By performing this actions team Sohozogi was assure that the system is running properly.

## 5.4 Test Results and Reports

Team Sohozogi has generated a preliminary test report by using light house system from google dev tool. The test result was very positive and team Sohozogi was satisfied enough with the result. The test report generated from google light house is shown in figure 5.4. Here the report shows that the performance of Sohozogi is seventy. It also shows that best practices number is seventy-three. The system took only 210ms blocking time. And the time to interact was 2.2 seconds. From the report the team was assure that the web site is SEO friendly as the SEO result is ninety-one. User can easily use this website without any hassle.



Figure 5.4: Test Results and Reports

## **CHAPTER 6**

### **IMPACT ON SOCIETY, ENVIRONMENT AND SUSTAINABILITY**

#### **6.1 Impact on society**

Sohozogi will create a positive impact in the society. Sohozogi doesn't support any offensive behavior. The Sohozogi admins always keep an eye on what is uploading on the site and take quick action on it. There is no scope of spreading violence or illegal activities through this platform. By creating an all-in-one place facility provided online we are helping the society to reduce their extra pressure and enjoy things at their doorstep. Also, Sohozogi encourages people to do various kinds of social activities.

#### **6.2 Impact on Environment**

Sohozogi is a web application. A web application doesn't harm the environment if we do not count the case 'Internet harms the environment. Here I am specifically writing about Sohozogi which is a web application so this has no impact on the environment. Along with that, Sohozogi always encourages shop owners to use environmentally friendly packaging for delivery purposes.

#### **6.3 Ethical aspects:**

During developing this project no codes are adopted from another site. The codes of full project written by us. Even we do not use any kind of codes in our project which can hamper the user privacy. Besides that, we used some open source libraires which are free for all. No culture is disrespect in our project. We maintain here the basic rights of workers. The front-end-design of our project is fully unique. No design is copied from another site. No adult content is not supported by our system such as pornography, sex toy etc. we ensure that no user will be frauded by anyone during buying a product.

#### **6.4 Sustainability plan**

One of Sohozogi's objectives is providing a sustainable solution. Sohozogi's sustainability plan is very specific. As this site will be developed and maintained by the owners themselves there is no making cost of it. From section one we have an estimated budget for every month. Sohozogi will earn profit by collecting 1% of each deal made by shop owners. Also, by encouraging shop owners to sell at a low price and provide some discount if possible. Besides that, every owner must ensure product quality and refund policy. These things will attract more users. The more users come; the more users buy the more money we make. We will use this profit to keep the site up to date, purchase more data space and advertisement. That's how Sohozogi plans to sustain itself in the market.

## **CHAPTER 7**

### **CONCLUSION AND FUTURE SCOPE**

#### **7.1 Discussion and conclusion**

Sohozogi is not just a web application. It is the dream of its developer. Working on such a multipurpose multi-vendor site was really amazing. The thing that keeps us motivated is that we are trying to help a large community by making their life more convenient.

Team Sohozogi months to research the existing platforms and find the problems. Also interacted with some frequent users of existing ecommerce and online delivery services. Team Sohozogi talked with them deeply and figured out if the problem is really a problem for the users.

After finding the problem team Sohozogi dedicated itself to find an optimal solution for the problem. Team interacted with the project supervisor and industry experts to find out a very optimal realistic solution. As soon as solution and requirement analysis is done the team starts its journey for development of Sohozogi.

The development journey of Sohozogi was like a hill track. There were many ups and downs. Developers had tons of sleepless nights. We faced so many challenges while implementing some core features. But we didn't lose hope. We tried harder. We pushed our limits and finally there was a breath of happiness.

Team thinks Sohozogi is a unique innovative idea to make a collaboration of all daily needs in one platform. Team Sohozogi hopes that this web application will help the consumers a lot.

#### **7.2 Scope for further developments**

Sohozogi is a modern application. But with time beings tradition also changes and as modern web platform Sohozogi needs to be updated with the trend always. At the moment we have some ideas for further development like

- A mobile application
- Cross platform facility
- Compare systems
- Some leisure activities
- Tours and travels booking system
- Rental services and many more

Team Sohozgi will always try to add new features in the application regularly and will keep the users satisfied.



## References:

[1] Stop the steal in e-commerce: Shut down Evaly, Dhamaka, and Alesha Mart, The Business Standard, 2021, available at <<<https://www.tbsnews.net/thoughts/stop-steal-e-commerce-shut-down-evaly-dhamaka-and-alesha-mart-294658>>>, last accessed on 18-11-2021 at 06:12 PM.

[2] Consumers fed up with high discounts, no delivery e-commerce platforms, Dhaka Tribune, 2021, available at<<<https://www.dhakatribune.com/business/2021/08/18-fed-up-with-high-discounts-no-delivery-e-commerce-platforms>>>, last accessed on 19-11-2021 at 05:12 PM.

[3] Pricing, MongoDB, 2021, available at <<<https://www.mongodb.com/pricing>>>, last accessed on 19-11-2021 at 05:12 PM.

[4] Firebase Pricing, Firebase, 2021, available at<<<https://firebase.google.com/pricing>>>, last accessed on 19-11-2021 at 05:12 PM.

[5] What Is Business Process Modeling? Ibm.com, 2021, available at << [www.ibm.com/cloud/blog/-process-modeling](http://www.ibm.com/cloud/blog/-process-modeling) >>, last accessed on 19-11-2021 at 05:12 PM.

[6] Use-Case Model - Java point, [www.javatpoint.com](http://www.javatpoint.com), 2021, available at <<<https://www.javatpoint.com/use-case-model>>>, last accessed on 19-11-2021 at 05:12 PM.

[7] What is a Logical Data Model (LDM)?, Techopedia.com, 2021, available <<<https://www.techopedia.com/definition/30599/logical-data-model-ldm>>>, last accessed on 19-11-2021 at 05:12 PM.

[8] Tapzo for Android, [apkpure.com](http://apkpure.com), 2021, available at <<<https://apkpure.com/tapzo-shutting-down-soon/com.akosha.directtalk>>>, last accessed on 19-11-2021 at 05:12 PM.

[9] KachaBazar - React Grocery & Organic Food Store E-commerce Template, KachaBazar, 2021, available at <<<https://kachabazar-store.vercel.app/>>>, last accessed on 19-11-2021 at 05:12 PM.

[10] Venam – Multipurpose WooCommerce Theme, Ninetheme.com, 2021, available at <<<https://ninthetheme.com/themes/venam/v1/>>>, last accessed on 19-11-2021 at 05:12 PM.

## Final Test

### ORIGINALITY REPORT

**19%**

SIMILARITY INDEX

**18%**

INTERNET SOURCES

**2%**

PUBLICATIONS

**15%**

STUDENT PAPERS

### PRIMARY SOURCES

<b>1</b>	<b>Submitted to Daffodil International University</b> Student Paper	<b>10%</b>
<b>2</b>	<b>dspace.daffodilvarsity.edu.bd:8080</b> Internet Source	<b>9%</b>
<b>3</b>	<b>vuir.vu.edu.au</b> Internet Source	<b>1%</b>
<b>4</b>	<b>Submitted to St. Petersburg High School</b> Student Paper	<b>&lt;1%</b>
<b>5</b>	<b>www.stats.govt.nz</b> Internet Source	<b>&lt;1%</b>

Exclude quotes Off

Exclude matches Off

Exclude bibliography On