



**Internship as Full stack developer (MERN)**



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## Approval

This thesis/project titled on “**Internship as Full stack developer (MERN)**”, submitted by **Rakib Ul Banna (ID: 191-35-2638)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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**Head and Associate Professor**  
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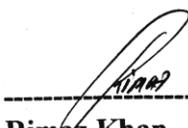
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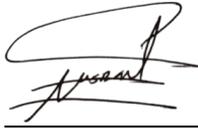
## DECLARATION

I now attest that the internship report, "Internship on Full-stack Software Development in MERN stack," was prepared by me under the guidance of

"Nusrat Jahan," Assistant Professor, Department of Software Engineering, and was based on my four-month duration of internship activities.

The report is distinctive and hasn't been filed anywhere for any academic reason. I also gathered and organized the statistics and information that are given here. Any falsification or alteration of data or material in this report is exclusively my responsibility.

Certified by:



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## **Acknowledgement**

I am incredibly grateful to Almighty God for helping me to make it through the most trying year.

I have the utmost respect for Nusrat Jahan, Assistant Professor, Department of Software Engineering, Faculty of Science and Information, Daffodil International University, for her advice and support throughout my stay in university.

I have no hesitation to say that, without her constant support and valuable advice from time-to-time, I would probably fail to complete the work in an appropriate manner.

At the same time, I'd want to thank all of my coworkers at Bengal Software, especially the company's founder and CEO Mr Mahtab U Khan, who has extended help by offering career advice and motivating me to perform at my best using the skills I've learned while studying SWE at Bengal Software.

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## **CHAPTER 1: INTRODUCTION**

### **1.1 Overview**

The purpose of internships is to provide students experience working in the industry. By providing students with actual industrial training that they can use to start, internships help them develop good portfolios.

Although there is no specific period of time for how long an internship should stay, most internships run between two and twelve months. An intern has the chance to learn how to apply their educational experience and expertise to the actual world throughout this time, as well as to explore the profession and receive mentoring from senior employees.

Internship programs offer a unique setting for building a strong foundation for a new career, understanding corporate culture, obtaining practical experience, developing relevant skills, and offering the chance to obtain long-term employment inside the company and other businesses.

Undergraduate "BSc. in SWE" programs are available at Daffodil International University. As an undergraduate student, the program specifies that we do an internship with a respected organization. During this time, I will receive hands-on training in workplace procedures and industry knowledge. I worked in Bengal Software's software department as part of my internship program, and I will be there for four months.

During my internship, I would have to know how to successfully connect with teammates both verbally and in writing, produce software in keeping with the software development life cycle, create better software, and guarantee the best possible services.

In this report, I've covered my time as a full stack intern at "Bengal Software," a summary of the business and its operations, and my personal experiences. What I've learned and how it's benefited me in producing better services and software.

## **1.2 Background**

This section describes my four-month internship with Bengal Software. I worked most of the time in Edify e-commerce (front-end), The Korean mall e-commerce (backend), and Right time CMS both frontend and backend.

My contributions to the company and how they helped me hone my skill sets, and how I applied for the software developer position early in the development process.

## **1.3 Objectives**

These internship reports' main purposes are to evaluate the job I did as an intern and work on a phase of the software development life cycle. In addition, the report is built to achieve certain objectives. Its main objective is to:

- ❖ Introduce the organization and the principles that will be used inside.
- ❖ Description of the team I was a part of.
- ❖ A thorough breakdown of the obligations.
- ❖ To be familiar with the actual software business.
- ❖ To possess problem-solving skills.
- ❖ To be familiar with industry evaluations and code standards.
- ❖ To complete the development process.
- ❖ Knowledge of software maintenance.
- ❖ Recognize how to operate in a group setting.

## **1.4 Methodology**

Each and every piece of data included in this report was gathered from both internal and external resources. The following are the major and supplemental sources of information used in this report:

#### **1.4.1 Primary Data Source**

- ❖ Observation and experience.
- ❖ By speaking with other software engineers.
- ❖ Information from the website of a software developer.

#### **1.4.2 Secondary Data Source**

- ❖ Company website
- ❖ Related office documents
- ❖ Internet

### **1.5 SCOPE**

I've covered the firm, its services, products, working environment, culture, and regulations in this report.

The second section of the report discusses how I began my internship and the kind of work I did during this time.

Software Development and How to Use Different Tools and Practices in the Software Development Life Cycle are covered in the third section of the paper.

### **1.6 Limitation**

First off, due to the terms of the contract I had to sign when I joined Bengal Software, the nature of the agreements between Bengal Software and its clients, and the nature of my confidentiality agreement, I am unable to disclose certain details about the business, its products, and services that are sensitive business information. Additionally, a number of limitations, including time and funding, have reduced my production.

## **CHAPTER 2: COMPANY OVERVIEW**

### **2.1 Overview of Bengal Software**

Bangladesh is advancing quickly in the field of software and website development. Bengal Software is one of the many remarkable software development companies that have made a significant contribution to the expansion of the software industry. Bengal Software offers technological solutions to both small and large businesses. These services are provided both domestically and abroad with a strong commitment to enhancing client satisfaction. This organization is made up of a group of driven, imaginative, and talented individuals that enjoy working hard and whose major objective is to offer their clients innovative solutions for software development.

Bengal software is led by Mr Mahtab U Khan (Founder and CEO) with a strong management team and skilled software developers with experience in various areas such as web/mobile/server working both in-house and remotely around the clock.

Bengal software has different sets of products targeted at small startups and large enterprises. They offer both custom made applications for businesses and ready-made ERP solutions to companies who need them. With this experience, Bengal software is able to help its clients get to their desired goals quickly and successfully.

The company also has a sister concern called Remote Office located in Australia which offers offshore companies to hire employees directly in Bangladesh with unique and intelligent team creation and reliable management system.

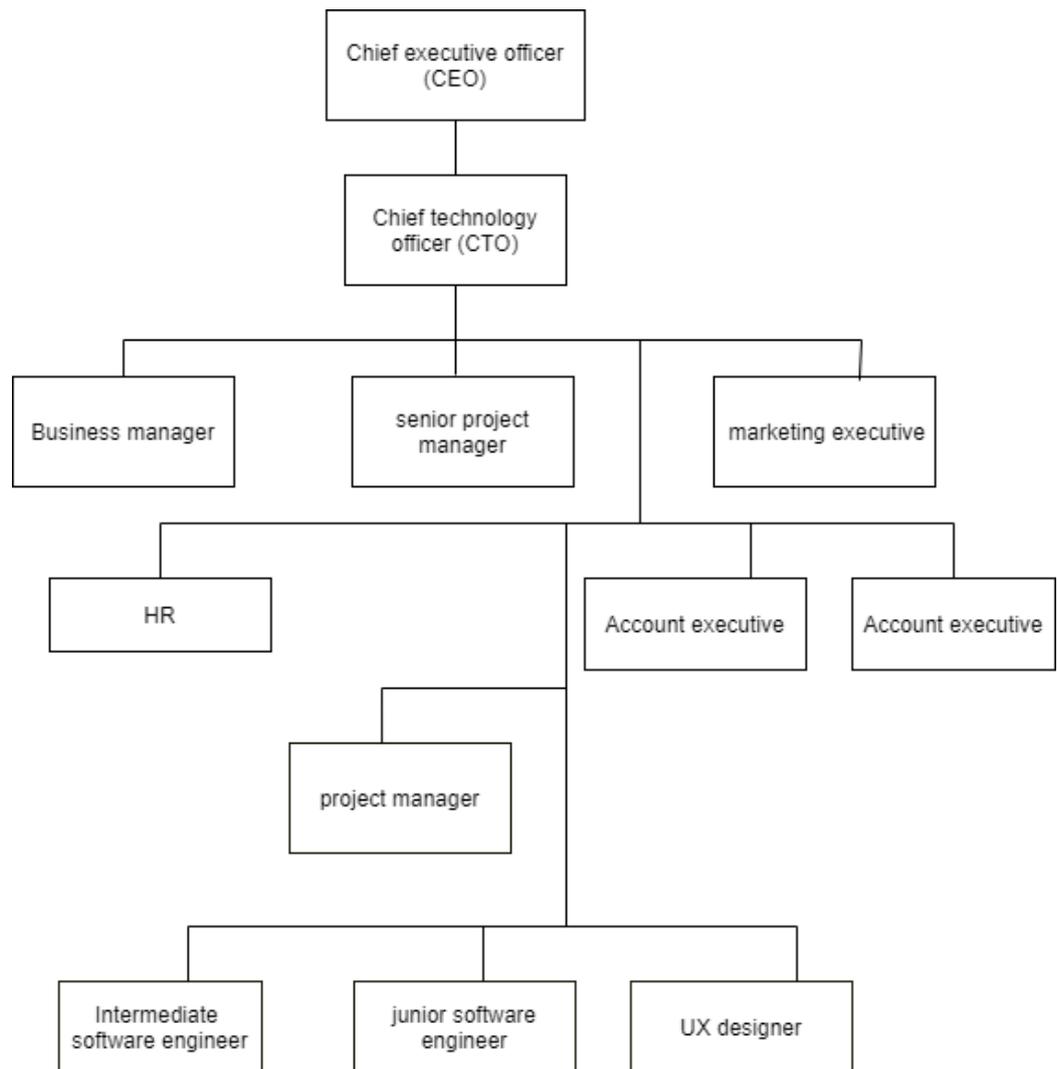
## 2.2 Organization Hierarchy for a Software Development Role

1. Managing director & CEO
2. Business Manager
3. Project manager
4. Team Leader
5. Senior software engineer
6. Software Engineer

Other roles:

1. UX designer
2. Software tester
3. Marketing Executive
4. Account executive
5. Digital Marketing executive
6. HR

## 2.3 Organogram of Bengal Software



## 2.4 Products

- ✓ Mobile application
- ✓ Web application
- ✓ ERP
- ✓ Software as a service
- ✓ Consultancy
- ✓ E-commerce
- ✓ Motion Graphics

## 2.5 Contact details

- Location:

Bangladesh Office: Adept K.R Complex (2nd floor), Bashundhara R/A link Road.

Australia office : 102-120 Railway Street Rockdale, NSW, Australia 2216.

England: 30 Cranes Park Road Birmingham B26 3SG UK

- Email: [hr@bengalsoftware.com](mailto:hr@bengalsoftware.com)
- Website: [bengalsoftware.com](http://bengalsoftware.com)

## 2.6 Technology

The frameworks that Bengal Software uses:

- Node JS
- Express JS
- Laravel
- Django
- Django REST Framework
- Flutter

### Languages used:

- Java Script
- Python
- PHP
- Java

### Mobile application platform:

- Android
- iOS

### Web Frontend Frameworks:

- React JS
- Next JS
- Vue JS

### Databases:

- MongoDB
- MySQL



### Other Services:

- Vs code
- Firebase
- GitHub projects
- digital ocean(hosting)
- Heroku (hosting testing purpose)
- Slack
- postman
- Docker
- chrome developer tools
- mongo dB compass

Version control:

- Git

## **2.7 Rules and regulations**

Employees may occasionally disregard the rules established by the employer. Even if an employee defies the rules in good faith, it adversely affects others' workflow.

For both onsite and remote employees, Bengal Software has its own set of guidelines that must be observed at work.

## **2.8 Semi-formal attitude**

Employees are urged to treat one another with respect and in a nice manner. Romance at work is not permitted.

Teams working internally that don't need to deal with clients should dress semi-formally, whereas teams dealing with external organizations should dress formally.

## **2.9 Office Schedule**

The employees have ample flexibility with the office hours. Employees should arrive at the workplace between 10:00 and 10:30 AM and stay for at least eight hours after that. There are also breaks for lunch, prayer, and snacks. If the employee needs an urgent leave of absence and their employment is not dependent upon them, they may seek it. The working hours of remote employees are entirely governed by their individual contracts.

## **CHAPTER 3: MY INTERNSHIP AT BENGAL SOFTWARE**

### **3.1 Overview**

The purpose of our academic program is to teach students how to graduate from high school as prepared as possible. The internship also serves a function. The most obvious advantage of an internship is getting hands-on, real-world training in the field something that a classroom cannot provide. Other noteworthy advantages include learning how to conduct oneself in a professional environment and how to collaborate with individuals of various backgrounds and cognitive capacities. Learning from the elders about the top techniques, widely used tools, and methods that fit into the first group. The latter group includes accountability, promptness, courtesy, respect, and teamwork.

This portion outlines my internship experiences, my involvement with Bengal software in the last 4 months, the things that I have learned from the company, and the contributions that I have done to the company as well during the internship experiences.

### **3.2 Internship experience**

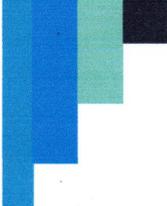
I was honored to be given the chance to complete my internship at Bengal Software because it provided me with a significant opportunity to learn from some of the most seasoned software engineers in the nation and experience firsthand how a business operates.

#### **3.2.1 Recruitment**

I was invited for an interview with Bengal Software, where the CEO, HR, and a senior project manager interviewed me informally about my academic pursuits and personal preferences. After the informal interview, a senior software engineer questioned me about the things I had studied in college, the technologies I was working with at the time, the things I wanted to learn, and some interview questions to assess my skill sets.

The interview was cordial, and I was warmly welcomed. A few days later, they phoned me to formally notify me that I had been accepted, and then they requested me to join and officially begin working.

### 3.3 Offer letter



## Internship Offer Letter

Date: 14-9-2022

We would like to congratulate **Rakib ul Banna** ID# 191-35-2638 (BSc in SWE) at Daffodil International University for being selected for the position of a academic internship program at **Bengal Software**, as we discussed during the interview process, this is a 4-month internship, and during this internship period, you will be expected to provide standard hours normally all organization. After a successful internship, you will be awarded by certificate. This internship is viewed by a supervisor as being an educational opportunity for you rather than a part-time job. In addition to learning internship under senior software engineers. Various commercial projects of clients will be given partially under software development. As such, your internship will include hands-on training. Primarily we focus on learning, developing new skills, and gaining a deeper understanding of the knowledge you have learned in the classroom. Your effective starting date is 15 September 2022 & ending on 15 January 2023.

Again, congratulations and we look forward to working with you. Thanks.

Sincerely

*Mahtab*  
14-9-22

**Mahtab Uddin Khan**  
BSc Engineer (NSU)  
Founder & CEO  
Bengal Software

---

**Mahtab U Khan**  
BSc Engineer (NSU)  
CEO at Bengal Software

Contact : 01816-811482 

Website : bengalsoftware.com 

Email : hr@bengalsoftware.com 

Office : Adept K.R Complex (2nd Floor), Beside Sundarban Courier, Bashundhara R/A link Road, Dhaka, Bangladesh 



### **3.4 Evaluation process**

In order to offer me assignments, monitor my progress, and assist me in overcoming some of the difficulties I had during the first part of the internship term, a senior software engineer was designated as my mentor. Each assignment I had to accomplish had a soft deadline. I received some feedback for improvement based on my progress. I was given instructions by software engineers and project managers to execute tiny changes of code that had stringent deadlines after becoming familiar with the system and how everyone works.

### **3.5 Personal expectations**

I have the following expectations during the internship period:

- I. Acquiring knowledge of the software development lifecycle
- II. Being aware of project modifications in the middle
- III. Acquiring knowledge about fascinating new technology
- IV. Developing time management skills
- V. Establishing positive connections within the sector

### **3.6 Conclusion**

Most of my expectations were met, if not exceeded, throughout the internship term. And I'm happy with the software overall. Bengal software has pushed me to master new technologies and address more practical challenges while also assisting me in understanding how the industry functions. My employer has pushed me to continue learning new things and to stay up to date with industry standards. In addition, I was given the duty of managing a real-world application that taught me how to maintain a project and manage a product with the team.

## **CHAPTER 4: SOFTWARE DEVELOPMENT LIFE CYCLE AND OVERVIEW**

### **4.1 Software development lifecycle**

Software development life cycle is referred to as SDLC. A software development life cycle is essentially a set of processes that serve as a framework for the creation and administration of an application's or software's lifetime.

The SDLC process approach differs from business to business. Engineers employ a software development life cycle, which is made up of a number of distinct work phases, to plan, create, test, and deploy information systems. An SDLC aims to produce high-quality systems that meet or exceed customers' expectations and fulfill their requirements by delivering systems that move through each clearly defined phase within the scheduled time frame and at the lowest possible cost. This is similar to anything that is produced on an assembly line.

Agile and waterfall SDLC are the two different types that may be employed. The primary distinction between the two is that while the agile SDLC starts with fewer strict rules and then makes modifications as needed, the water process is more conventional and is designed with a well-thought-out strategy and specified set of requirements. Agile development is renowned for its capacity to swiftly transition an application from a prototype to a finished product at almost any stage, making it more suitable for constantly updated or modified applications.

Bengal Software follows agile methodology most of the time to develop a software.

The principles of agile methodology are:

1. Satisfy customers by consistently delivering high-quality work on time.
2. Split up large activities into manageable parts that can be finished quickly.
3. Realize that self-organized teams provide the finest work.
4. Trust motivated folks to complete the task at hand by giving them the atmosphere and assistance they require.

5. Establish procedures that support actions that are sustainable.
6. Keep up a steady pace for finished task.
7. Be open to requirements changing, especially late in a project.
8. Every day during the project, gather the project team and business owners.
  
9. Encourage regular team reflection on ways to improve performance, followed by behavior tuning and modification.
10. Track development based on the volume of work finished.
11. Constantly strive for greatness.

Generally there are six phases in the Software development life cycle model. They are the following.

- Collecting & analyzing requirements
- Design
- Implementation
- Testing
- Deployment
- Maintenance

### **Collecting & analyzing requirements:**

Business needs are obtained at this stage. The project managers and stakeholders are primarily focused on this phase. In order to define the requirements, such as who the system's users are, what data should be entered into the system, and what the system should output, many meetings with managers, stakeholders, and users are held. In this step, all general inquiries are made. After collecting all the criteria, they are examined to determine their validity and whether it is feasible to include them into the system that will be created. Finally, a requirements specification document is produced as a set of recommendations for the model's subsequent phase.

### **Design:**

The required requirements created in the first phase are used to prepare the system and software design in the second phase. System design aids in determining the overall system architecture as well as the hardware and system requirements. The model's subsequent phase receives input from the system design sepc. In this phase, UX designers provide guidelines, while testers develop test strategies that specify what should be tested and how it should be tested.

### **Implementation:**

The task is separated into pieces during this phase, and real coding is started. The major priority for software engineers at this period is the production of the code. This is the stage of the software development life cycle that lasts the longest.

### **Testing:**

To ensure that the program is truly solving the issue it was designed to, the code is tested against the requirements after it has been written. All functional and non-functional requirements are tested during this phase, along with unit tests, integration tests, system tests, and acceptance tests.

### **Deployment:**

The program is tagged for shipment once the testing process is successfully completed, and then it is released to the production servers or app stores so that real consumers may use it. The client may also do the best consumer testing here, depending on the terms of the client contract.

### **Maintenance:**

As soon as users begin utilizing the system, a real issue arises and periodically has to be resolved. Maintenance is the procedure where the developed product is looked after. The length of this phase will depend on the agreement with the customer.

## **4.2 My work as software developer intern**

### **4.3 Project planning**

My task at Bengal Software was to work and learn as a Full stack software developer intern. I have done there front-end developing such as react props drilling, state managements, component making, routing etc. and in backend part I created APIs for web/mobile applications.

After the planning phase of SDLC, the project manager supplied us with functionality and data requirement documentation, where they have mapped the actual interface of the application to their corresponding actions, what they do, the data input that the application should take, and the result that data will provide.

### **4.4 Tools and technology used during project's**

**Programming language:** JavaScript

**Front-end and back-end development Framework:** React js, Redux, Node js, Express js.

**UI framework:** Tailwind, Material UI

**API Documentation:** postman

**Database:** Mongo

**Operating System:** Ubuntu

**Editor:** VS code

**Authentication:** Firebase

**Task assigning:** GitHub projects

**Hosting:** Digital Ocean

**Hosting testing purpose:** Heroku

## **4.5 Project List**

### **4.6 Project - 1**

#### **4.7 The Korean mall**

- ✓ Project type: e-commerce web application
- ✓ Developed: Front-end and Back-end both
- ✓ Design: material UI, react-bootstrap
- ✓ Development: react js, node js, express js
- ✓ Database: MongoDB
- ✓ Database tool package: mongoose
- ✓ API Doc: postman
- ✓ MY work duration: 2.5 months

#### **Project description**

#### **4.8 The Korean mall**

This application helps people in to order goods not going to the shop.

Shopping mall owners will register on the application and upload his services via a web app.

Customer will select the product and select his order and submit the order. Customers will be able to pay online payment or cash.

Customer can get Bundle offer by ordering specific number of product with specific condition. Admin can manage all the functionality.

He can also see the whole business statistic from the admin panel.

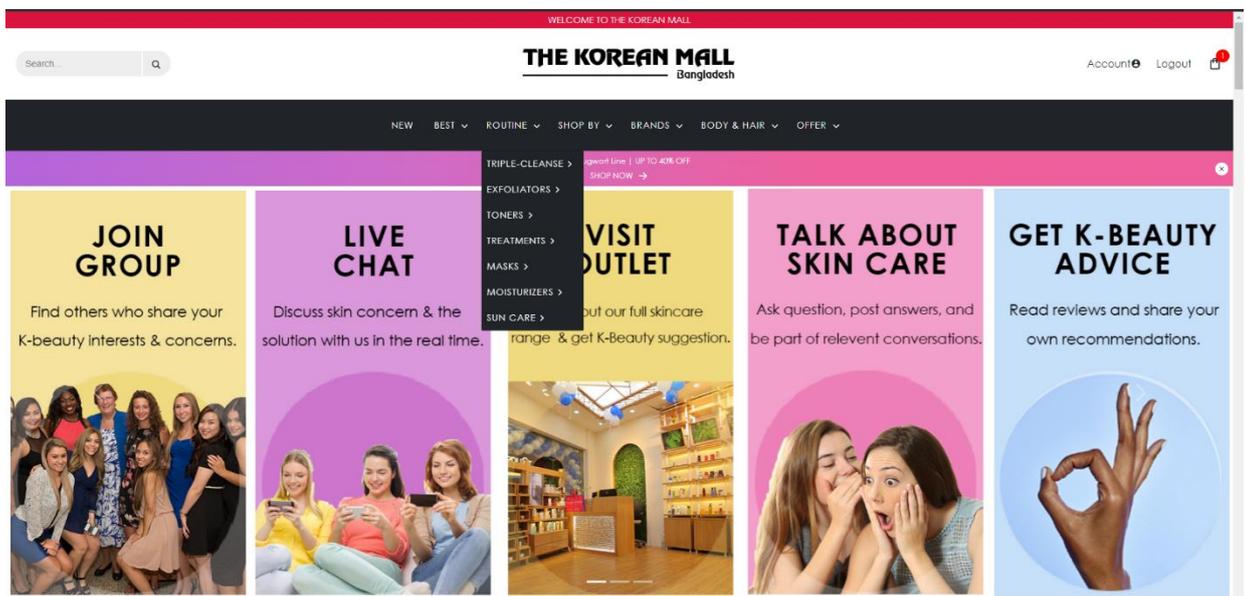
The customers will be able to access the mobile app through iOS or Android devices. The web apps will be accessed through public web from any device with a web browser connected to internet.

## User Interface

### Client side

#### ❖ Dashboard section

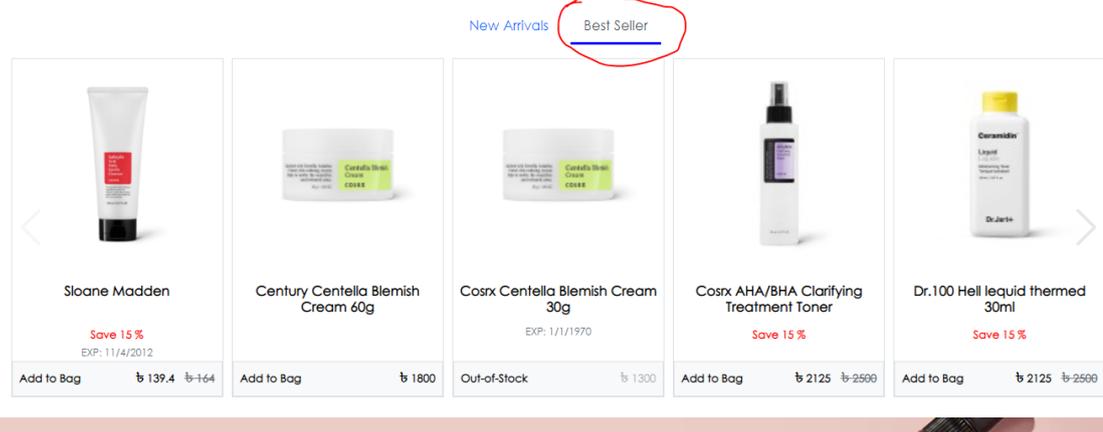
Here the customer will get a complete idea about the store. They can see navigate route and can select product based on category.



#### ❖ Product section:

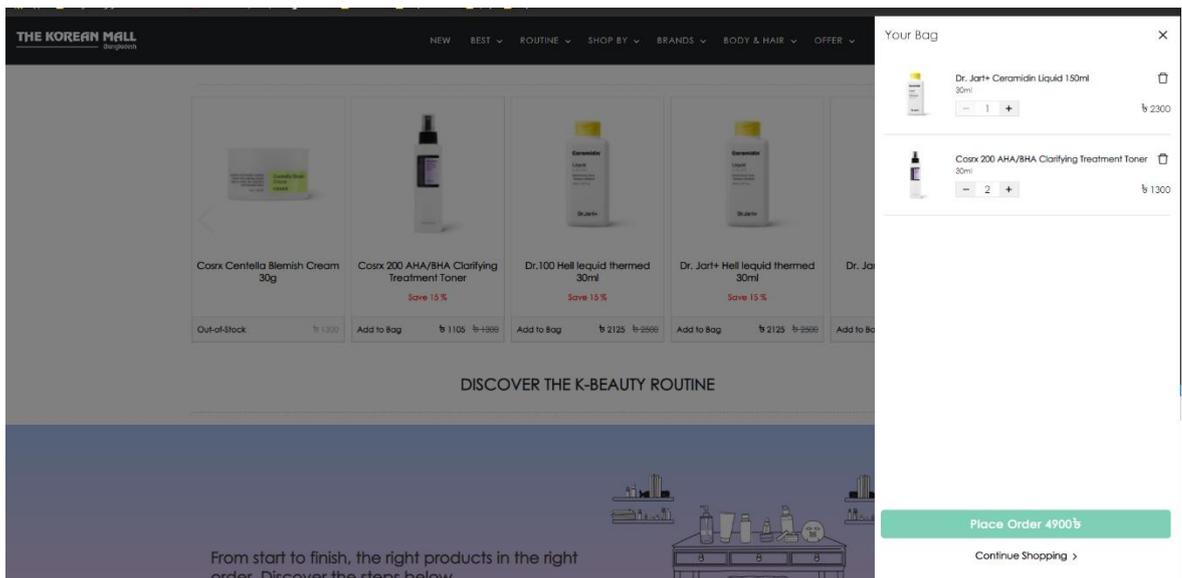
Here customer can see all the product and the new arrival product and also see the best seller.

TURN ON YOUR ETERNAL GLOW, REVEAL THE YOUTHFUL SKIN.



### ❖ Cart section

Here customer can add product in his cart and set the quantity and also can delete product from cart and can proceed to the order.



❖ **Single product section:** Here customer can see a single product and give review and select the varying of a single product.

**THE KOREAN MALL**  
Bangladesh

---

NEW BEST ROUTINE SHOP BY BRANDS BODY & HAIR OFFER



**Sloane Madden**

★★★★★ (No reviews)

₹ 164 - 30ml (₹ 164)

30 ml

**Add to Bag - ₹164**

In dolorem elit sae safasafa

Culpa voluptatum fug.

- ACTIVITIES ▾
- DIRECTIONS ▾
- INGREDIENTS ▾
- SHIPPING ▾

---

What would you rate this product?

★★★★★

Tell us your feedback about the product

Enter your comment

---

Product  
Reviews

❖ **Shopping bag section**

Here customer can his full cart and edit the cart.

### Shopping Bag

 <p>Dr. Jart+ Hell lequid therved 30ml Size: 30ml ₹ 2500</p> <p>- 1 +</p>	 <p>Cosrx 200 AHA/BHA Clarifying Treatment Toner Size: 30ml ₹ 1300</p> <p>- 1 +</p>	Subtotal <span style="float: right;">3800 TK</span>
		<a href="#" style="background-color: #4CAF50; color: white; padding: 10px; text-align: center;">Pay Now</a>

<p><b>THE KOREAN MALL</b> Bangladesh</p> <p><b>Gulshan</b> Shop # 238, 1st Floor, Police Plaza Concord Shopping Mall Hatirheel, Gulshan 1</p> <p><b>Dhanmondi</b> Shop # 1102, 1st Floor, Shimanta Shambhar, Dhanmondi (H8) 01756 167724 mail@thekoreanmall.com</p> <p><a href="#">Twitter</a> <a href="#">Facebook</a> <a href="#">Instagram</a> <a href="#">YouTube</a> <a href="#">Email</a></p>	<p><b>About Us</b></p> <ul style="list-style-type: none"><li>About Us</li><li>Store Location</li><li>Delivery information</li><li>Privacy Policy</li><li>Terms &amp; Conditions</li><li>Contact us</li><li>Sitemap</li></ul>	<p><b>Account</b></p> <ul style="list-style-type: none"><li>My account</li><li>Order History</li><li>My Wishlist</li></ul>
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### ❖ Login section:

Here customer can log in via email, password or google account or Facebook account when he will want to order product.

<input type="text" value="rch..."/>	<input type="text" value="Q"/>	<p><b>THE KOREAN MALL</b> Bangladesh</p>
NEW BEST ▾ ROUTINE ▾ SHOP BY ▾ BRANDS ▾ BODY & HAIR ▾ OFFER ▾		
<h3>Customer Login</h3>		
Email <input type="text"/>		
Password <input type="password" value="8 character and one is special and one number"/>		
<a href="#">Forget Password?</a> <a href="#">New Customer? Sign up →</a>		
<a href="#">GOOGLE</a> <a href="#">FACEBOOK</a>		

## ❖ Profile section

Here logged in customer can update his profile by giving information.

WELCOME TO THE KOREAN MALL

**THE KOREAN MALL**  
Bangladesh

NEW BEST ROUTINE SHOP BY BRANDS BODY & HAIR OFFER

  
**Rakib ul banna**  
rakib35-2638@dlu.edu.bd

My Account  
View Orders  
View Reviews

### Your account

Profile Picture  
Choose File No file chosen

Name Phone  
Rakib ul banna 01878911013

Gender  
 Male  Female  Others

Email  
rakib35-2638@dlu.edu.bd

Save Changes

**THE KOREAN MALL**  
Bangladesh  
Gulshan  
Shop # 238, 1st Floor, Police Plaza Concord Shopping Mall Hatigheel,  
Gulshan 1

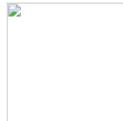
**About Us**  
About Us  
Store Location  
Delivery information

**Account**  
My account  
Order History  
My Wishlist

1. **View order route:** Here customer see his past and present order history with details and order ID.

**THE KOREAN MALL**  
Bangladesh

NEW BEST ROUTINE SHOP BY BRANDS BODY & HAIR OFFER

  
**Rakib ul banna**  
rakib35-2638@dlu.edu.bd

My Account  
View Orders  
View Reviews

### View Orders

Order Id: 6370df41000960455db3c041 pending  
Date: 11/13/2022, 6:12:49 PM

 MI Perfect Removal Cream (Body) 120ml  
Model: TKM44S000024 Qty 4

Order Id: 636b439e1545c28ca828dab5 processing  
Date: 11/9/2022, 12:07:26 PM

 MI Perfect Removal Cream (Body) 120ml  
Model: TKM44S000024 Qty 6

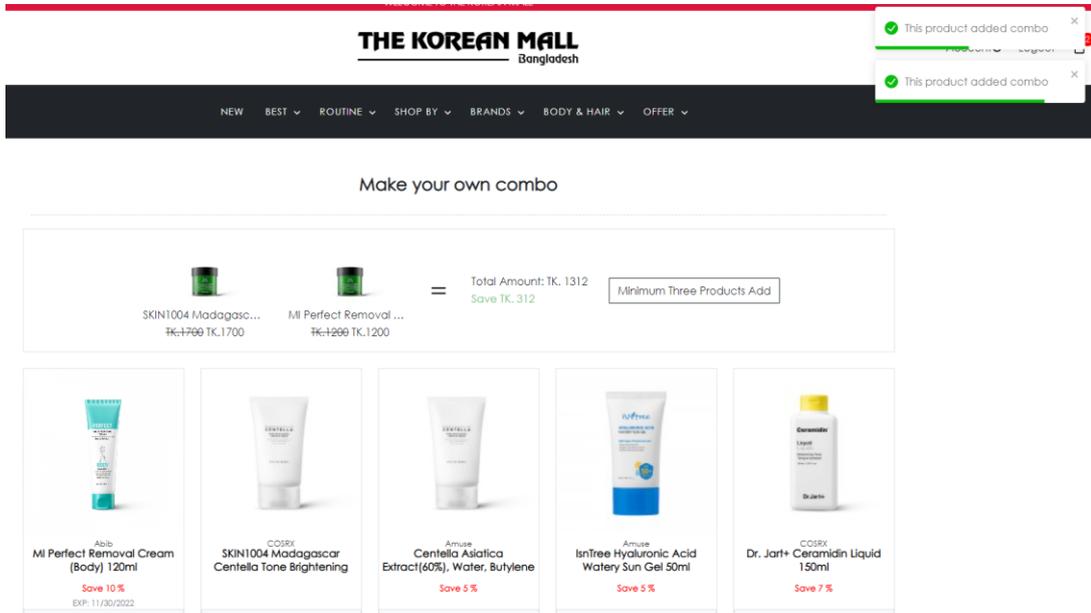
**THE KOREAN MALL**  
Bangladesh

**About Us**  
About Us

**Account**  
My account

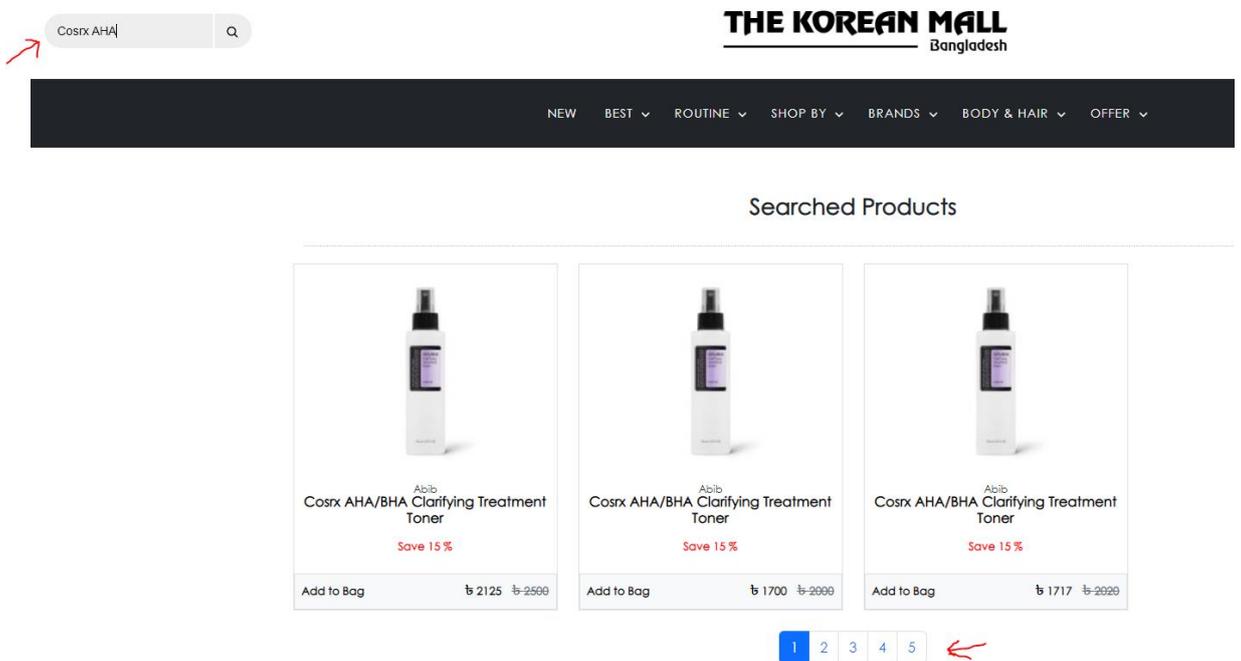
### ❖ Combo ordering Section:

Here customer order combo pack product and can get special discount which set from admin panel.



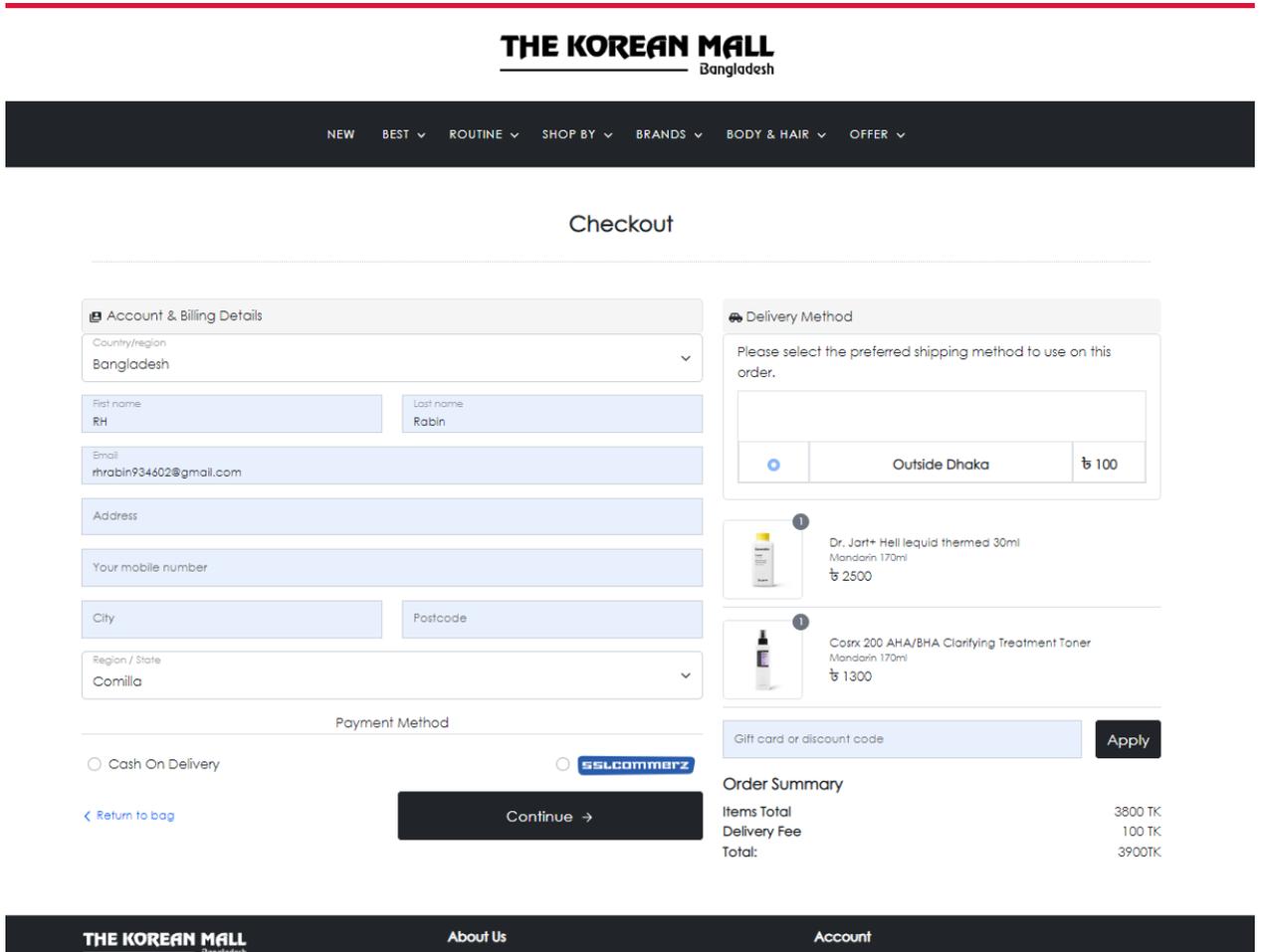
### ❖ Product filtering and viewing with pagination

Customer can filter product and see with pagination



❖ **Checkout section:**

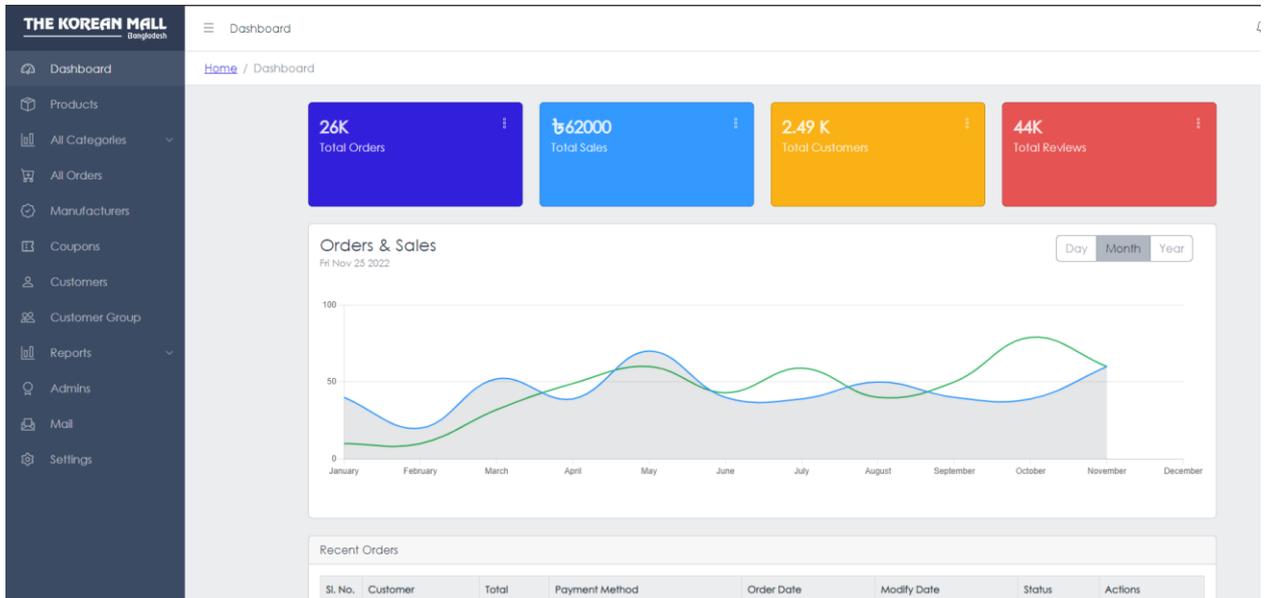
Here customer can give shipping address and make payment and confirm his order via online or select cash on delivery.



## Admin panel

### ❖ Admin dashboard section:

Here admin can see total order, total sell, total customer, total product count, sales graph and get an overview of his business.



### ❖ Product section:

Here admin can filter product with variables.

The screenshot shows the Product section in the Admin panel. It includes a search and filter interface with fields for Product Name, Price, Status, Model, and Quantity. Below the filter is a table listing all products. The table has columns: Sl. No., Photo, Name, Model, Manufacturer, Stock Status, Price, and Actions. The table contains 7 rows of product data.

Sl. No.	Photo	Name	Model	Manufacturer	Stock Status	Price	Actions
1		Mi Perfect Removal Cream (Body) 120ml	TKM44S000024	Abib	IN-STOCK	₹1200	
2		SKIN1004 Madagascar Centella Tone Brightening Capsule Cream 75ml	SKIN1004	COSRX	IN-STOCK	₹1700	
3		Centella Asiatica Extract(60%), Water, Butylene Glycol	SKIN1004	Amuse	IN-STOCK	₹1500	
4		IsnTree Hyaluronic Acid Watery Sun Gel 50ml	SKIN1004	Amuse	IN-STOCK	₹1900	
5		Dr. Jart+ Ceramidin Liquid 150ml	SKIN1004	COSRX	IN-STOCK	₹2300	
6		Dr. Jart+ Hell lequid therned 30ml	SKIN10078	Abib	IN-STOCK	₹2500	
7		Dr. Jart+ Hell lequid therned 30ml	SKIN10078	Abib	IN-STOCK	₹2500	

❖ **Product updating section:**

Here admin can update product with attribute and also can make options.

cts

**Edit Product**

General | data | Links | Discount | Image | Reward Points

**Name**  
MI Perfect Removal Cream (Body) 120ml

**Description**

Description  
SOMEBYMI Perfect Clear Hair Removal Cream works by dissolving hair.  
With constant use, the hair becomes thinner and softer over time.

Suggested Use  
1. Clean and pat dry the area you wish to treat.  
2. Apply enough amount of cream to fully cover the hair and leave it for 5-7 minutes. (Do not exceed 10 minutes.)  
3. If the hair comes away easily when wiping off a small test area, you can remove the rest with a damp washcloth or rinse well with lukewarm water.

**Activities**

Enter activities

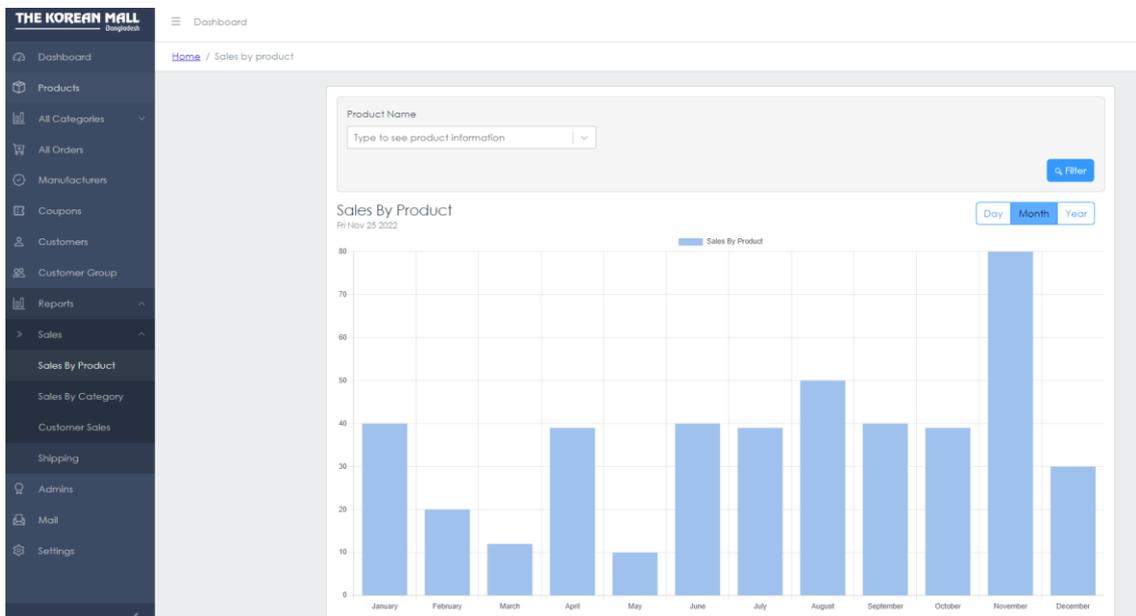
**Directions**

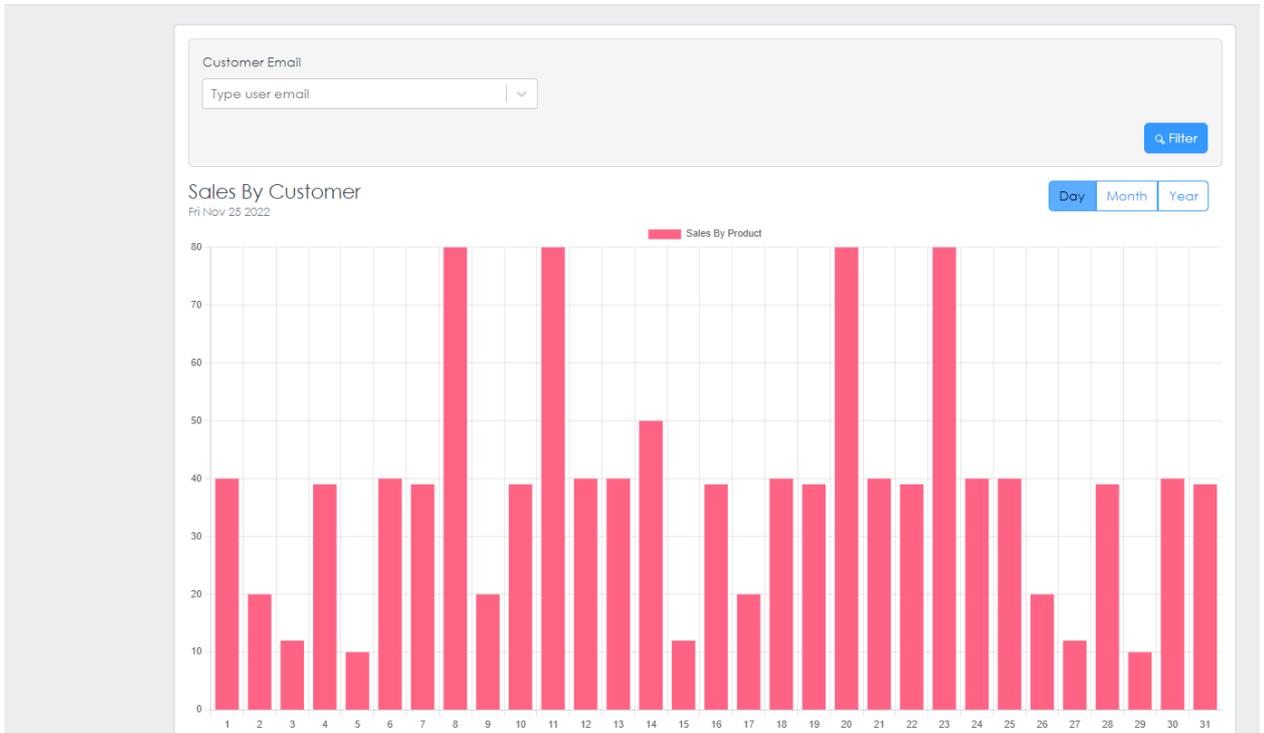
Enter directions

**Ingredients**

❖ **Sales graph:**

Here admin can see the sales graph based on daily sales, monthly sales and yearly sales.





❖ **Updating and deleting section:**

Here admin can update and delete product and order. And also change order status.

Mail

From  
Email from

To  
Email to

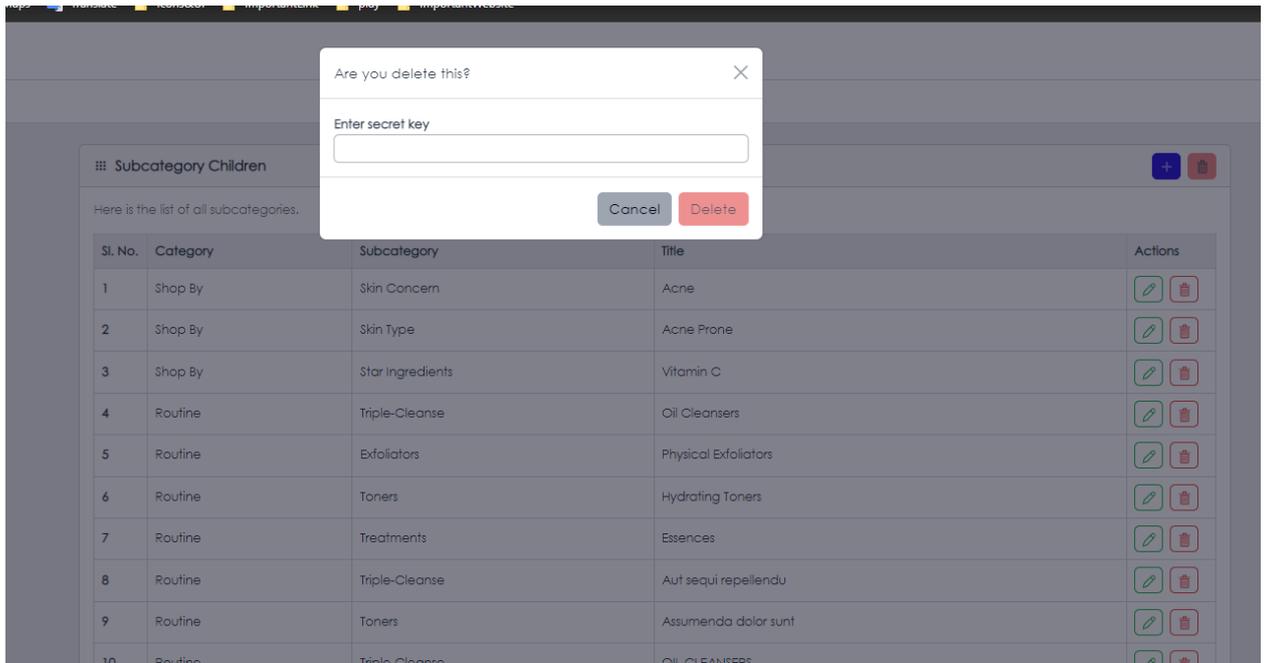
Subject  
Enter subject

Body

B I U G " < > |≡≡ x₂ x² ≡≡ ¶ Normal : A Sans Serif : ≡ ☒ ☒ ☒ ☒

Enter your text here...

Send Message



## 4.9 Project – 2

### 4.9.1 Bengal-software-Admin

- ✓ Project type: Template selling site
- ✓ Developed: Rest API in Back-end
- ✓ Development: node js, express js
- ✓ Database: MongoDB
- ✓ Database tool package: mongoose
- ✓ API Doc: postman
- ✓ MY work duration: 1 months

### 4.9.2 Project description

This application is a website template selling site.

It's a multi-vendor web application where temple owner can sell template and buyer can buy template.

It is also the official site of Bengal software where they provide different kind of service.

#### **4.10 My responsibility**

- Wrote API for the CRUD functionalities.
- Fixed many API bugs that caused the project to complete before the release date.
- Contributed to the Database Design so it makes query writing easier in Mongoose ODM.
- Also fixed the react components bugs in the Admin panel.
- Front-end so all functions work properly.
- Also, fixed the client-side front-end react state management bug so the UI functionality works smoothly.

#### **4.11 Project – 3**

#### **4.12 Passionate programmer**

- ✓ Project type: question answering, discursion application
- ✓ Developed: Rest API and UI
- ✓ Development framework: express js(node js)
- ✓ Database: Mongo
- ✓ Database tool package: mongoose
- ✓ Duration: 10 days

## 4.13 Project description

This project is basically a programming questing answer and discussion application which

Will help the Bangladeshi student and developers for problem discussion.

Here any logged in user can make question and other can answer those questions.

Question answer will verify by the majority answer similarity checking and by the expert.

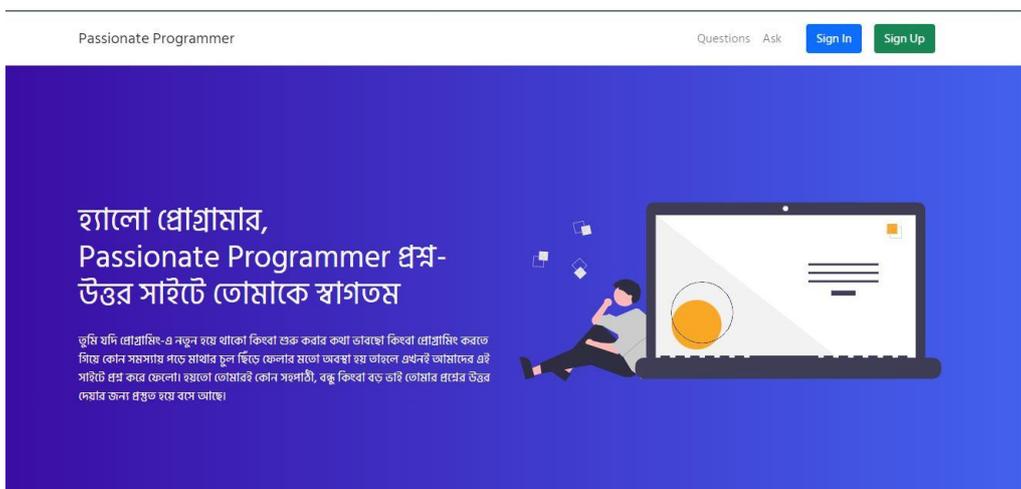
Expert can write blog and sell programming related course.

### User Interface

#### Client side

##### ❖ Dashboard section:

Here user can see the questions and the answer given by others.



Passionate Programmer Questions Ask [Sign In](#) [Sign Up](#)

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উত্তর

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দেখেছেন

beginner
intermediate

আমি প্রোগ্রামিং শিখতে চাই। প্রথমে কোন ল্যান্গুয়েজ দিয়ে শুরু করা উচিত?

**Rakib ul banna**  
answered 5 hours ago

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**Rakib ul banna**  
answered 5 hours ago

❖ **Question creating section:**

Here user can create question.

Passionate Programmer Questions Ask [Sign In](#) [Sign Up](#)

**Ask a Question**

শিরোনাম প্রশ্ন করার নিয়মাবলী

বিস্তারিত

ছবি/স্ক্রিনশট যুক্ত করুন

ট্যাগ

Post your Question

Passionate Programmer

Still working in this project.....

## **CHAPTER 5: EXPERIENCE AND ACHIEVEMENT**

### **5.1 Challenges and constraints**

The organizational structure of Bengal Software is effective. This business strives to keep everything in good condition. As a result, I discovered a few small drawbacks throughout my internship.

### **5.2 Organizational constraints and challenges**

#### **5.2.1 Organizational rules constraints**

The organization employs both local and remote workers, making it occasionally challenging to coordinate with other team members who work remotely and to coordinate with their time zones given that many of them operate in various time zones.

#### **5.2.2 Desk arrangement**

They use an open table divided by glasses as their workstation, which doesn't address the noise problem and makes working with others more difficult.

#### **5.2.3 Limited resource**

Due to a lack of resources, such as development servers, high-quality laptops, high-resolution monitors, and principals, the task is made more difficult than it has to be.

## **CHAPTER 6: CONCLUSION**

### **6.1 Concluding statements**

One word would best describe my time at Bengal Software: "Humbling." Bengal Software has a robust business network that extends both domestically and internationally, which has given me a great deal of knowledge about both the domestic and international markets. Working there taught me how to be a team player, make the most of my time, and act professionally. This not only made it easier for me to recognize the professional route I want to follow, but it also gave me more self-confidence. I picked up additional soft skills and learned new technology thanks to the office's learning environment.

### **6.2 Recommendations**

I didn't know what to anticipate when I first started at Bengal Software or how much I would learn or change, but I now fully understand the great changes it has brought about in my life. I will never forget the tremendous support I received from my coworkers at Bengal Software. I want to thank Mahatab U Khan (CEO) and Nusrat Jahan (Academic Supervisor) for providing me this chance, for their support, and most importantly for their time. I would definitely advise my young students to work as interns at Bengal Software.