



Daffodil
International
University

Junior Web Developer in “Datatech BD LTD”

Submitted By:

Md. Khalid Hasan Milton

ID: 171-35-1813

Department of Software Engineering

Daffodil International University

Supervised By:

Tapushe Rabaya Toma

Lecturer (Senior Scale)

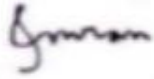
Department of Software Engineering

Daffodil International University

This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

Approval:

This internship titled on “Junior Web Developer in Datatech BD LTD” submitted by Md. Khalid Hasan Milton, ID: 171-35-1813 to the Department of Software Engineering. This internship content has been accepted as satisfactory for the purpose of completing a bachelor's degree in software engineering at Daffodil International University.

Board of Examiner's:


Chairman

Dr. Imran Mahmud
Associate Professor and Head
Department of Software Engineering
Daffodil International University



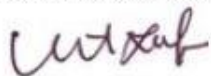
Internal Examiner 1

Md. Shohel Arman
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External Examiner

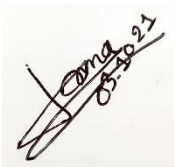
Professor Mohammad Abu Yousuf, PhD
Institute of Information Technology
Jahangirnagar University

Declaration:

I do hereby declare that the internship report entitled “Multi-vendor e-commerce website seller panel by Datatech BD LTD” has been prepared on the basis of 6 months of Internship activities it is an original work done by me under the supervision of “Tapushe Rabaya Toma, Senior Lecturer, Department of Software Engineering.

The report is a unique one which is not submitted anywhere before. The data of the report is my collection and I have arranged it myself.

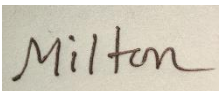
This report is submitted to the Faculty of Science & Information Technology Department of Software Engineering of Daffodil International University for the partial fulfillment of the requirements of the Degree of B.Sc.

Supervised by:

.....
Tapushe Rabaya Toma

Senior Lecturer, Dept. of Software Engineering

Daffodil International University

Submitted by:

.....
Md. Khalid Hasan Milton

ID: 171-35-1813

Department of Software Engineering

Acknowledgement:

First of all I am thankful to god for giving me the opportunity to do an internship.

Then I thank my teacher/mentor Tapushe Rabaya Toma, Senior Lecturer, Department of SWE, due to her generous and friendly guidance. I am also grateful to her that she explained everything to me in a very simple way.

On the other hand, I would like to thank my company supervisor Md Shakir, Project Manager & Managing Director, Datatech BD LTD. who has extended her helping hands by showing the right and effective path to me. He taught me everything very simply and I learned a lot from him.

I am thankful to my family, my classmates, my teachers for their collaboration and assurance which helps me to complete my course. I would like to thank them from the bottom of my heart for giving me such a wonderful time.

Executive Summary:

In my last semester of B.Sc. in Software Engineering at Daffodil International University, I had to do an internship program of 6 months in a reputed software company. My internship company was Datatech BD LTD. I am doing an Internship at Datatech BD LTD. As a Web Developer. Basically it's a Software Company. Datatech BD Ltd is a Bangladeshi software firm that specializes in software development. Since May 2019, the company has offered a wide range of high-quality services in the development, delivery, and maintenance of software in Bangladesh. I have been working here since February 2021. It's located in West Agargaon, She-e-Bangla Nagar, and Dhaka during my internship period, I have worked on a project. I worked on the seller panel of a multi-vendor e-commerce site in my office. Creating a seller panel where the seller can add his own product, edit product, delete product, show product list, show order list and show order details. The Products can be seen on the website. Customer can view the product on the website and place an order, and the order will go to the seller's account.

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Chapter 1(Introduction)

1.1) Overview:

An **internship** is a period of work experience offered by a company for a limited period of time. An internship is a period of time during which someone joins the company, puts them to work, and gains experience on their own. Having an internship after graduation is an advantage in getting a job and knowing in advance how the company works.

Daffodil International University offers an undergraduate program in BSc. in SWE. As a student of the undergraduate program, the program requires that we complete an internship period with a reputable company where I will be trained practically with working environment practices and get familiar with the industry. I am doing an Internship at Datatech BD LTD. As a Web Developer. Basically it's a Software Company.

1.2) Origin of the Report:

This report refers upon the six-month internship period at Datatech BD LTD. It focuses on an overview of the Software development department Datatech BD LTD. My contribution to the organization and how it has developed my skills and how I have applied the junior web developer role in software development

1.3) Objective:

The main objective of the report is to analyze the software development cycle and implementation of the Junior Software Engineer role in the software development life cycle.

The report is designed to meet specific goals. Given below:

- Developed Website of the company Customer.
- Description About the team where I work.
- Detailed description of responsibilities.
- An intern achievement, focusing on non-academic achievements.
- To know about the problems faced in the software company.
- To know how these problems are solved.
- To know the coding format and rules of the industry.
- To go through the development cycle.

1.4) Scope:

In this document, I discussed our company, all services, company environment, company culture, company policy, what to do when doing an internship at a company, how the company works to create a software. The second part of the report covers how I start my internship and the type of work done during my internship period.

1.5) Conclusion:

Internship period helps in developing skills and knowledge, but it also gets us in touch with industry experts. In this report, I have given an overview of my company, my company services, and my experiences working there, my contributions and finally, I have made a self-assessment on my performance during the internship period.

Chapter 2(Company Overview)

2.1) Company Services:

- Web design and development.
- SEO
- Mobile Application development.
- Software Development
- Software Security Testing
- Game Development
- Digital Marketing
- IT Consultancy

2.2) Company Strength:

- The Company has skilled developer in the Software development sector.
- Excellent employee with strong knowledge.
- Strong customer relationships
- Strong Support team.
- Excellent internal communications system
- Good location of at our company
- Excellent marketing strategies
- Cheap pricing rated Web & Ecommerce Development Company.

2.3) Company Details:

Datatech BD Ltd is a Bangladeshi software firm that specializes in software development. Since May 2019, the company has offered a wide range of high-quality services in the development, delivery, and maintenance of software in Bangladesh.

Company name: Datatech BD LTD.

Website: <http://datatechbd.com/>

Email: info@datatechbd.com

Address: Shawpno Neer, 272/Kha/3/F, West Agargaon, She-E-Bangla Nagar, Dhaka-1207

Chapter 3(Design & Implementation Constraints)

3.1) Internship Experience:

“Datatech BD LTD.” is a small company in Bangladesh and already has many services. Working at “Datatech BD LTD”, I have learned how to create a very large software/website with many developers. And how developers create great software by putting their assigned work together.

3.2) Software Development of Company:

The application will be developed using Laravel Framework 8. The used language will be PHP and the front end will be developed using HTML, CSS, JavaScript, jQuery, Bootstrap.

3.3) Working Environment & Protocols:

Rules and Regulations of Datatech BD LTD.-

- Arrived at the office at 10 am & left at 5 pm.
- All communication must be from the official email and written.
- All office property must be left in the office before leaving the office.
- All decisions must be discussed.

Facilities given to interns-

- Desk
- A Laptop
- Internet connection
- Pen, notebook, mouse, keyboard, etc.
- Tea/coffee also provided from the office.
- Two day weekend (Friday & Saturday).

3.4) Analysis of office culture:

My supervisor gave me permission to work on the home. They also gave me freedom, flexibility to my work and improved productivity to keep me figuring out ways to deal with problems.

It has very friendly working environment every day there has a tiffin and refreshment break and everyone in the office is very friendly and helpful.

3.5) Internship Life Cycle:

The Project supervisor to keep track of my progress. I had deadlines for each task that we had to meet. At the beginning of the internship they taught me some work, asked me to study by selecting some topics, gradually when my skills came to an end they started giving me work on small projects. And I had to show those tasks to the supervisor within the deadline.

3.6) Personal Expectation:

My expectations from the internship are given below:

- learning about the software development life cycle professionally
- Understanding the software development all things.
- learning about new technologies.
- Time management and responsibility.
- Good relationship building.

3.7) First Day at Office:

The first day at my office is a memorable day. I was worried about how the company would be, what would be the culture of the company, how they would behave with me. I was told to go to the office at 11.00 am. When I reached the company, my industrial supervisor “Md Sakir” met with me and talked with me. Then I was relieved of a little tension.

Then my supervisor asked me a lot of question about laravel framework and PHP. After sitting for a while that day I came home and started office from the next day.

Chapter 4(Assumptions & Dependencies)

4.1) Working Area:

There are many responsibilities working as an internee.

- Laravel Framework
- PHP
- JavaScript
- JQuery
- HTML
- CSS
- Bootstrap
- Github
- Xampp

4.2) Assigned Responsibilities:

I worked in Datatech BD LTD. as a web developer. At first they would ask me to study by selecting specific topics in the office and they would make me well versed on those topics. Gradually they started giving me small tasks for the project. Later they hired me to work on the seller panel of a multi-vendor ecommerce website. There was-

- ▶ 1. Dashboard
- ▶ 2. Add products
- ▶ 3. Product list
- ▶ 4. Edit Product
- ▶ 5. Delete Product
- ▶ 6. Show Order
- ▶ 7. Show Order Details
- ▶ 8. Order Status change

4.3) Project Goal:

- Creating a seller panel where the seller can add his own product, edit product, delete product, show product list, show order list and show order details. The Products can be seen on the website. Customer can view the product on the website and place an order, and the order will go to the seller's account.

4.4) Functional Requirements:

FR ID	Description	Important	Urgent	Priority
FR-01	Seller can add product	Yes	Yes	High
FR-02	Seller can edit product	Yes	No	Medium
FR-03	Seller can delete product	Yes	No	Medium
FR-04	Seller can show product	Yes	Yes	High
FR-05	Seller can show order	Yes	Yes	High
FR-06	Seller can show order details	Yes	No	Medium
FR-07	Seller can change order status	Yes	No	Medium

4.5) Performance Requirements:

No special hardware is required to run this type of application, Even if the minimum hardware required. Additional storage will be required for the document. It would be better to have at least 8 GB RAM and 500 GB hard disk and a good processor.

4.6) Availability Requirements:

The availability of the system to show services when requested. The system must be available 24/7. It must be able to deliver services to the user when requested.

4.7) Security Requirements:

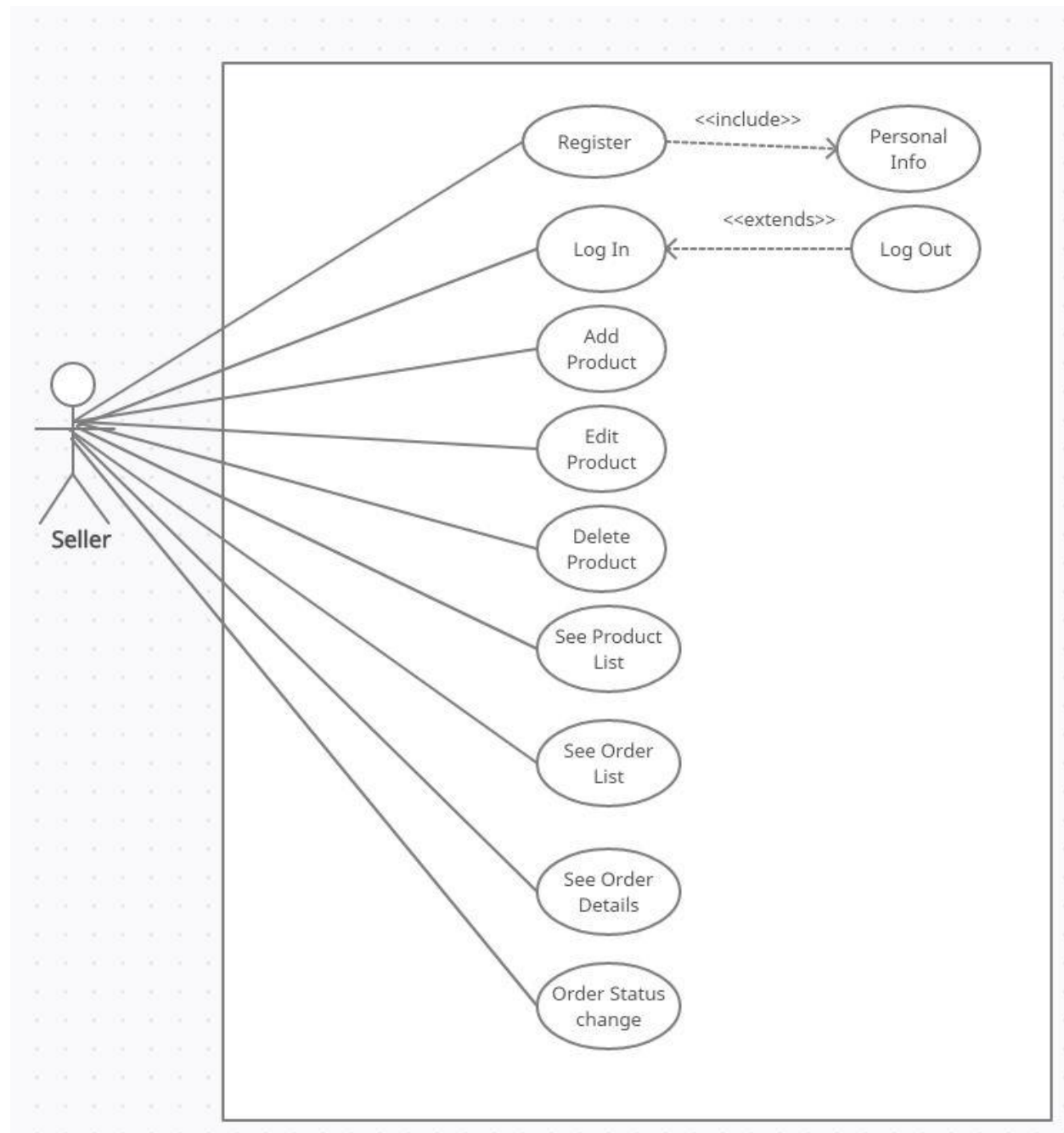
System is an important issue for any project. For the lacking of the security service, the data could be manipulated. The system can face cyber-attack. System security requirements include with login and log out. If any seller has security problem, the admin should be informed.

4.8) Maintainability Requirements:

At least one backup server with same configuration as in main server is also recommended for better performance. Separate storage for database, document, and manuscript is also recommended. Multiple computing nodes with the storage are required for high availability and to enhance the performance of the application.

Chapter 5 (Use Case Diagrams)

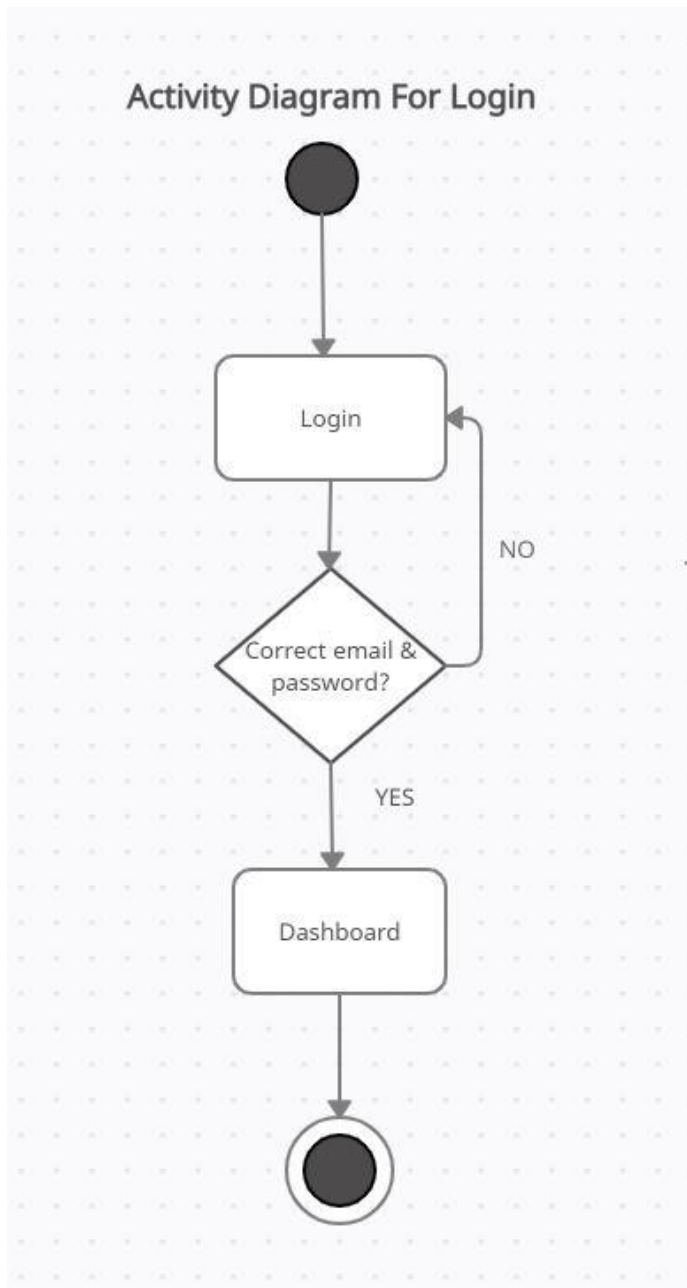
5.1) Seller Use Case Diagram:

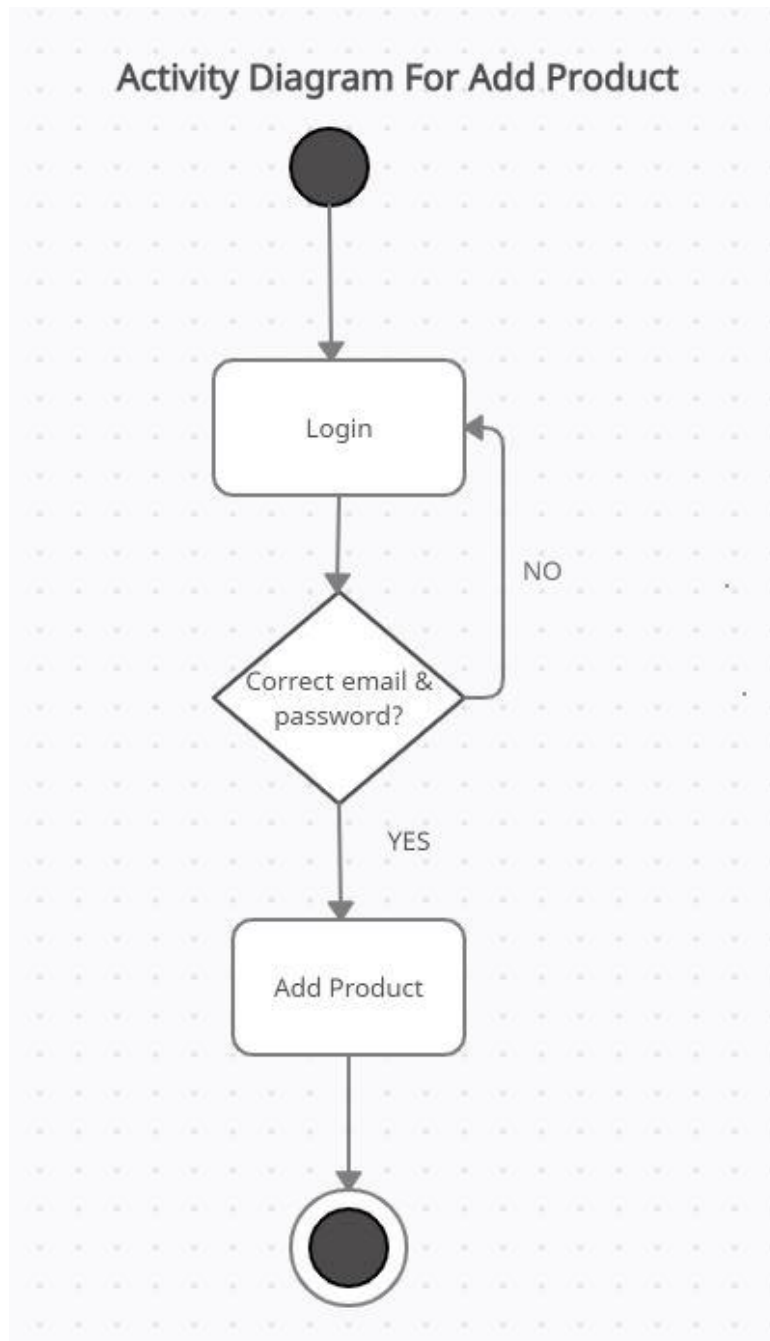


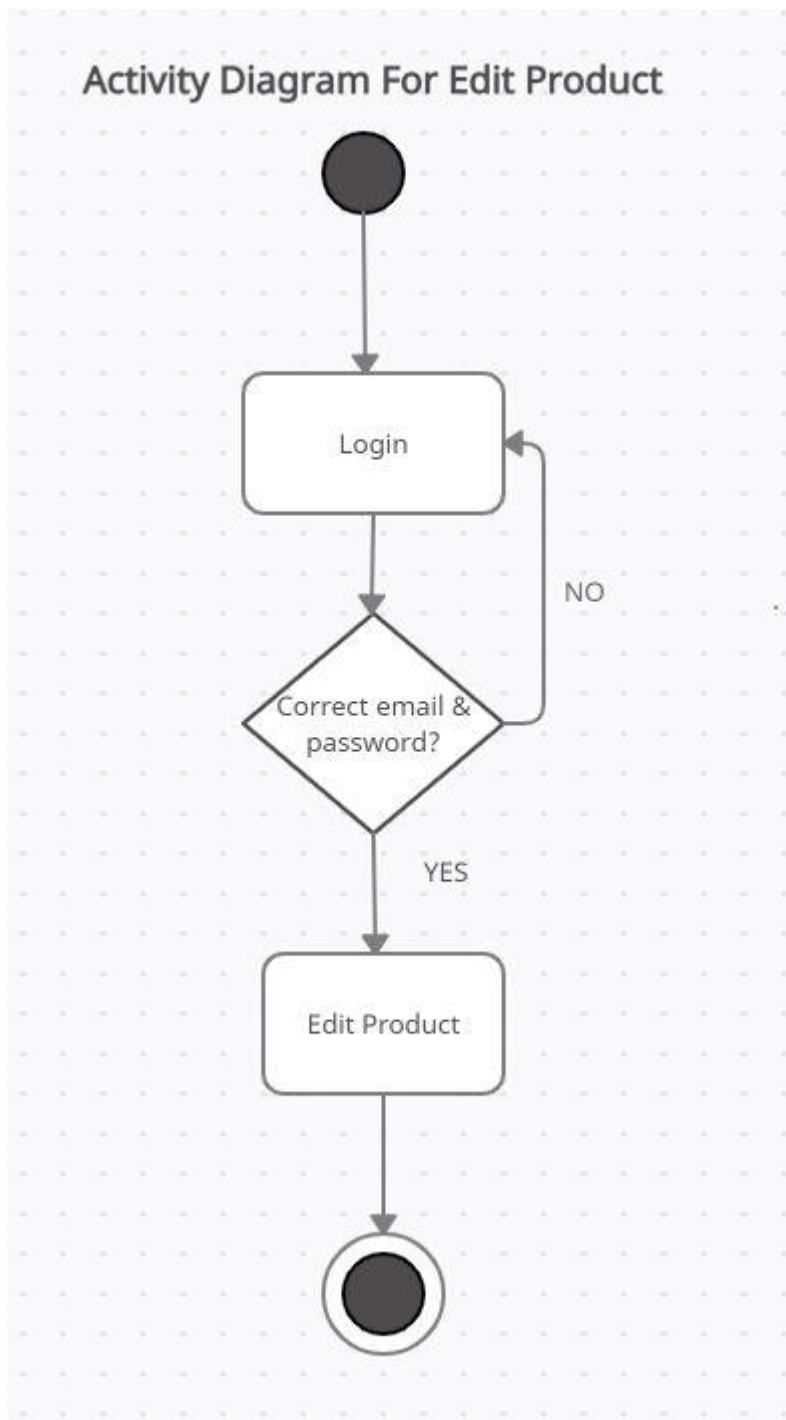
Chapter 6 (Activity & Sequence Diagrams)

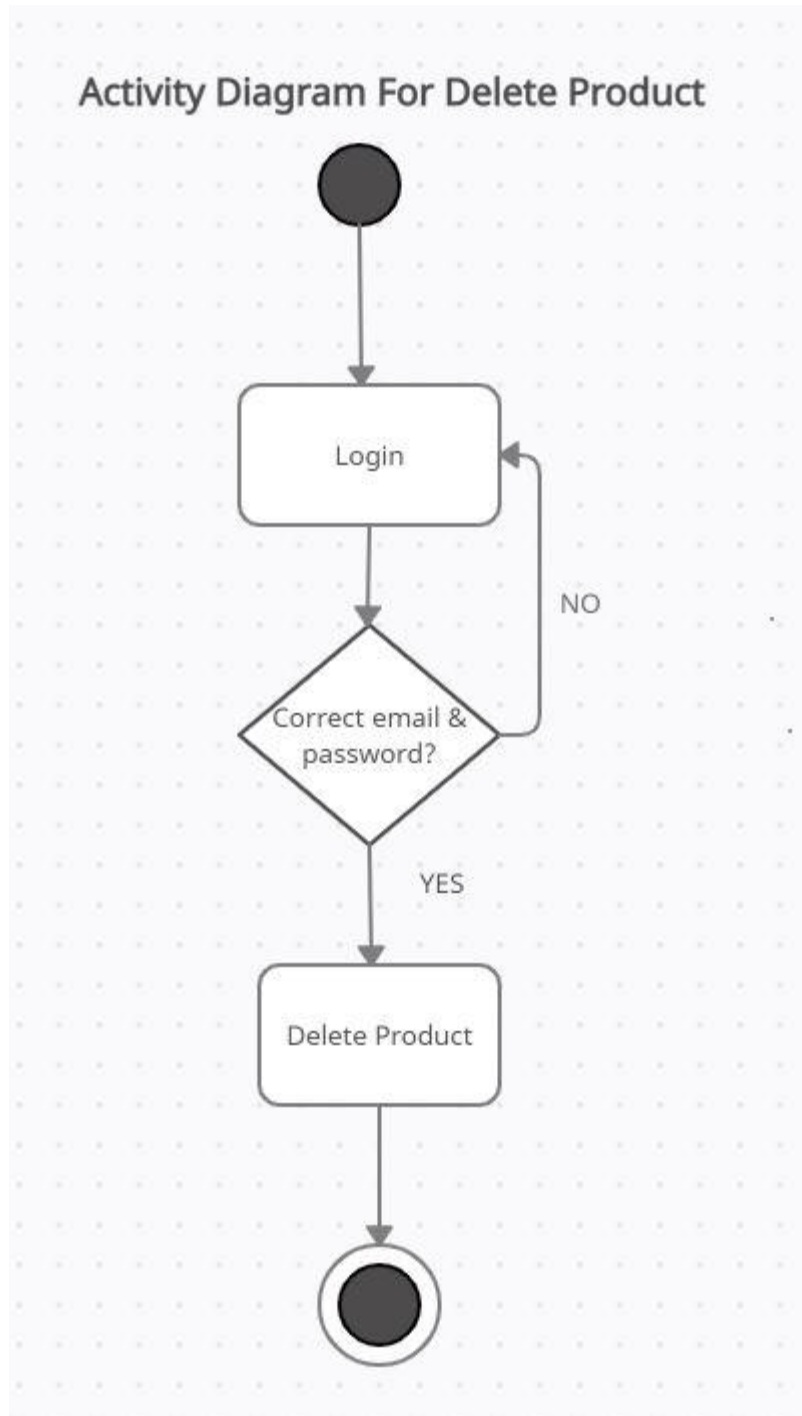
6.1) Activity Diagram for Seller:

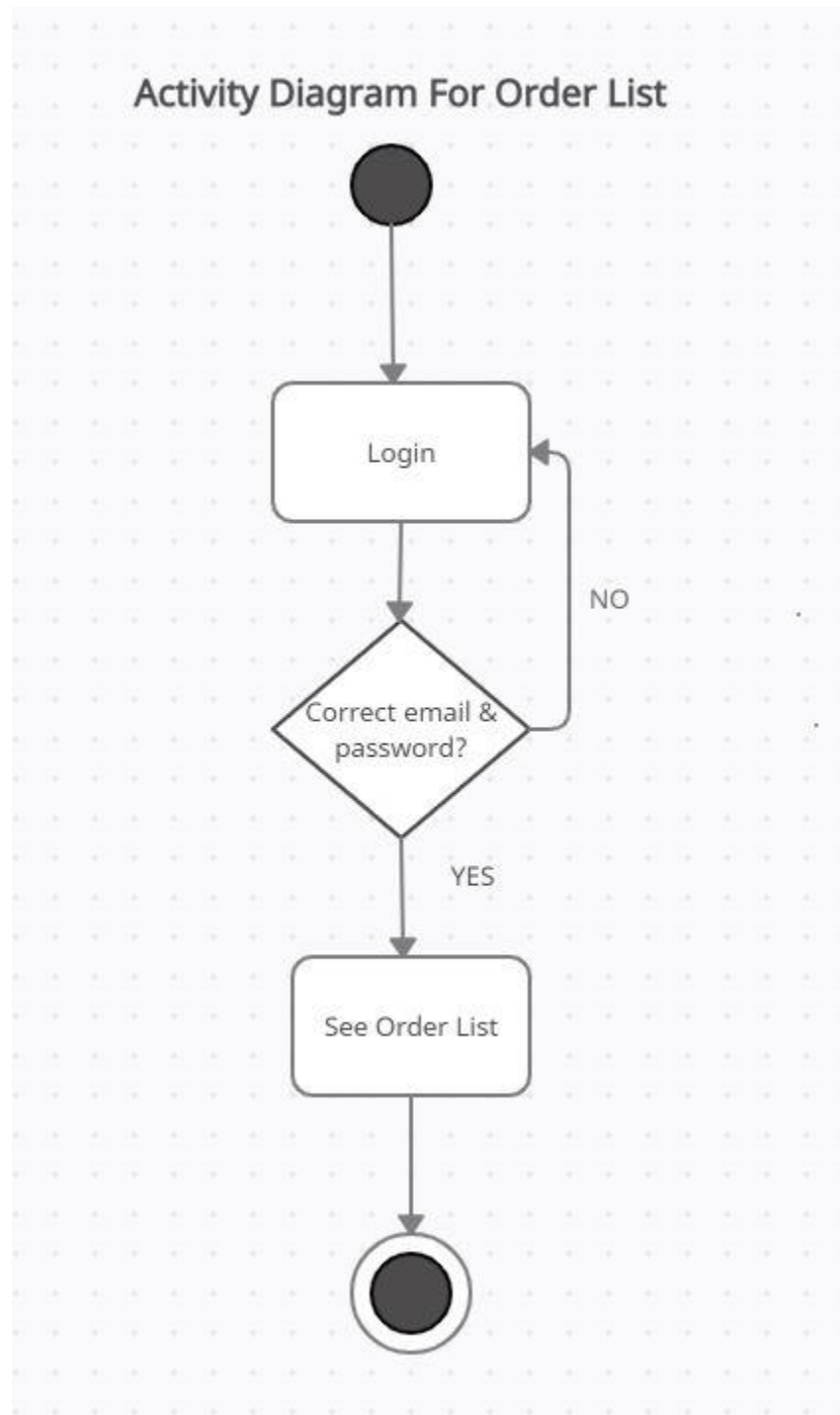
Login:

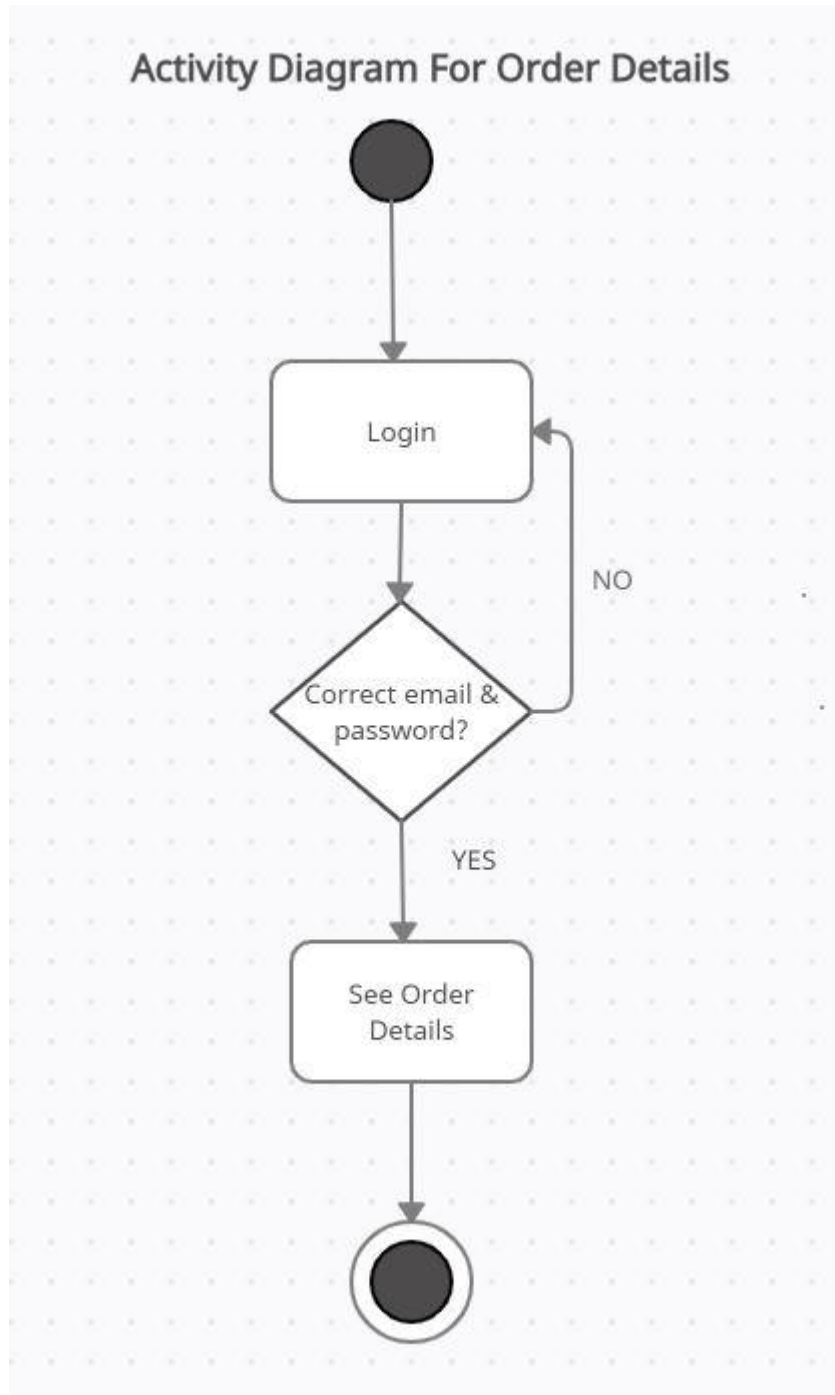


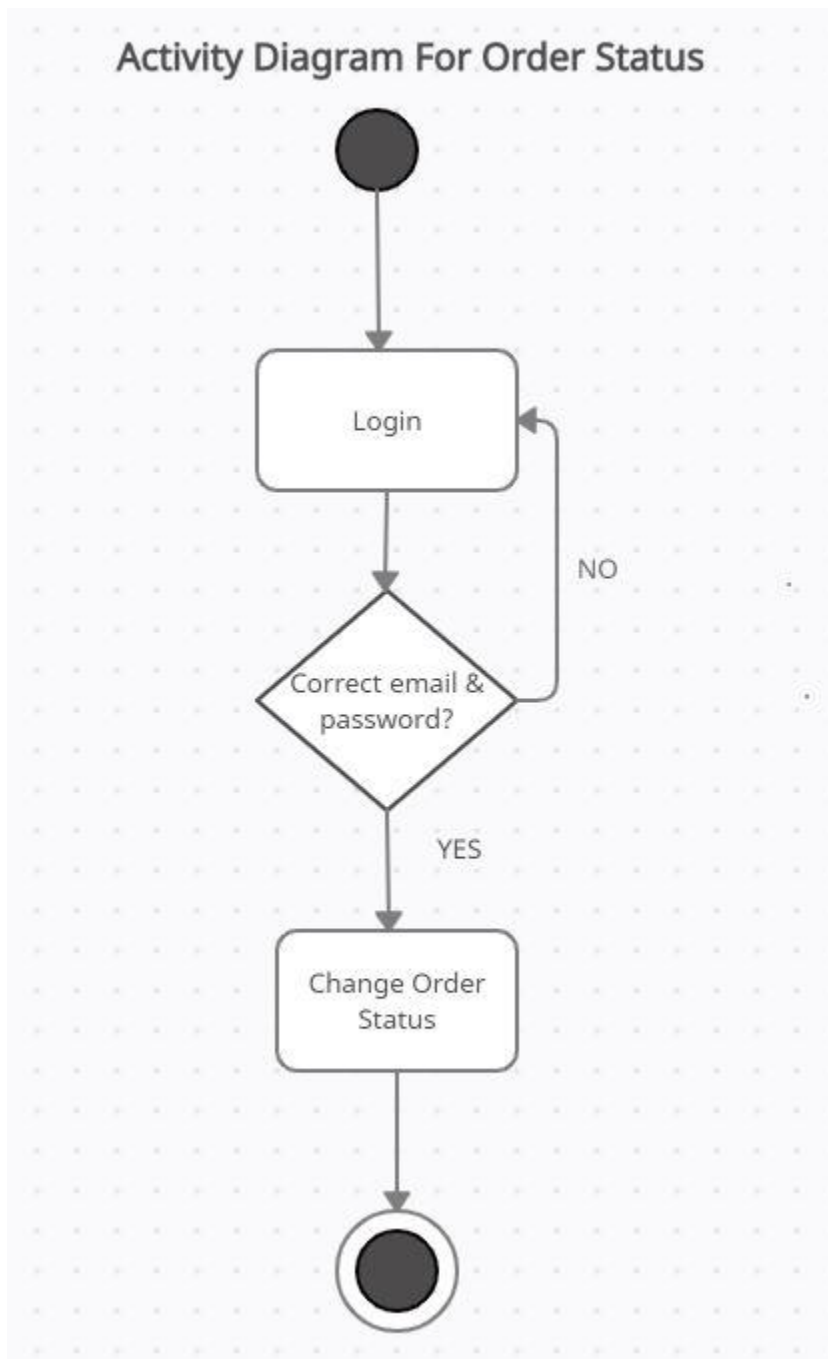
Add Product:

Edit Product:

Delete Product:

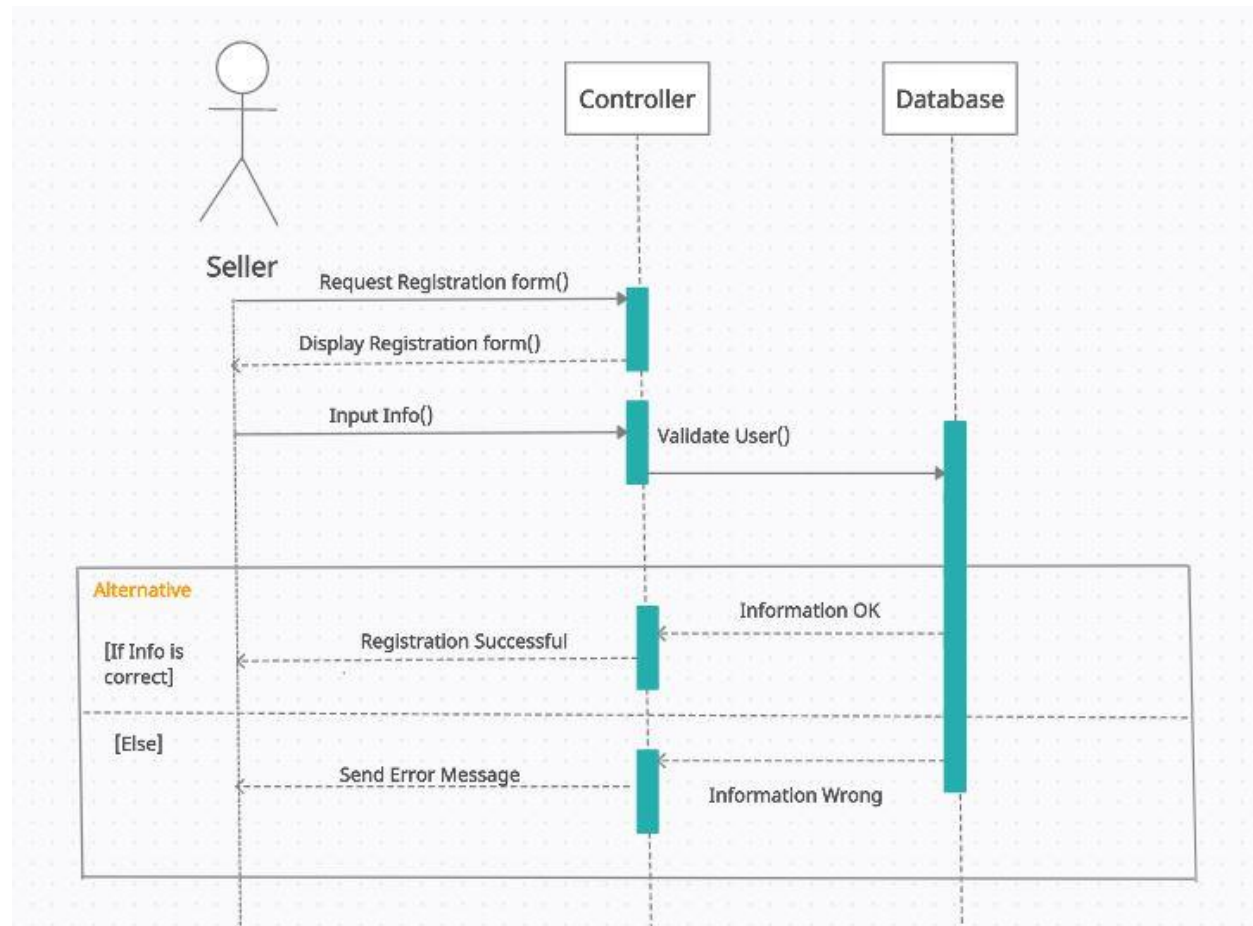
Order List:

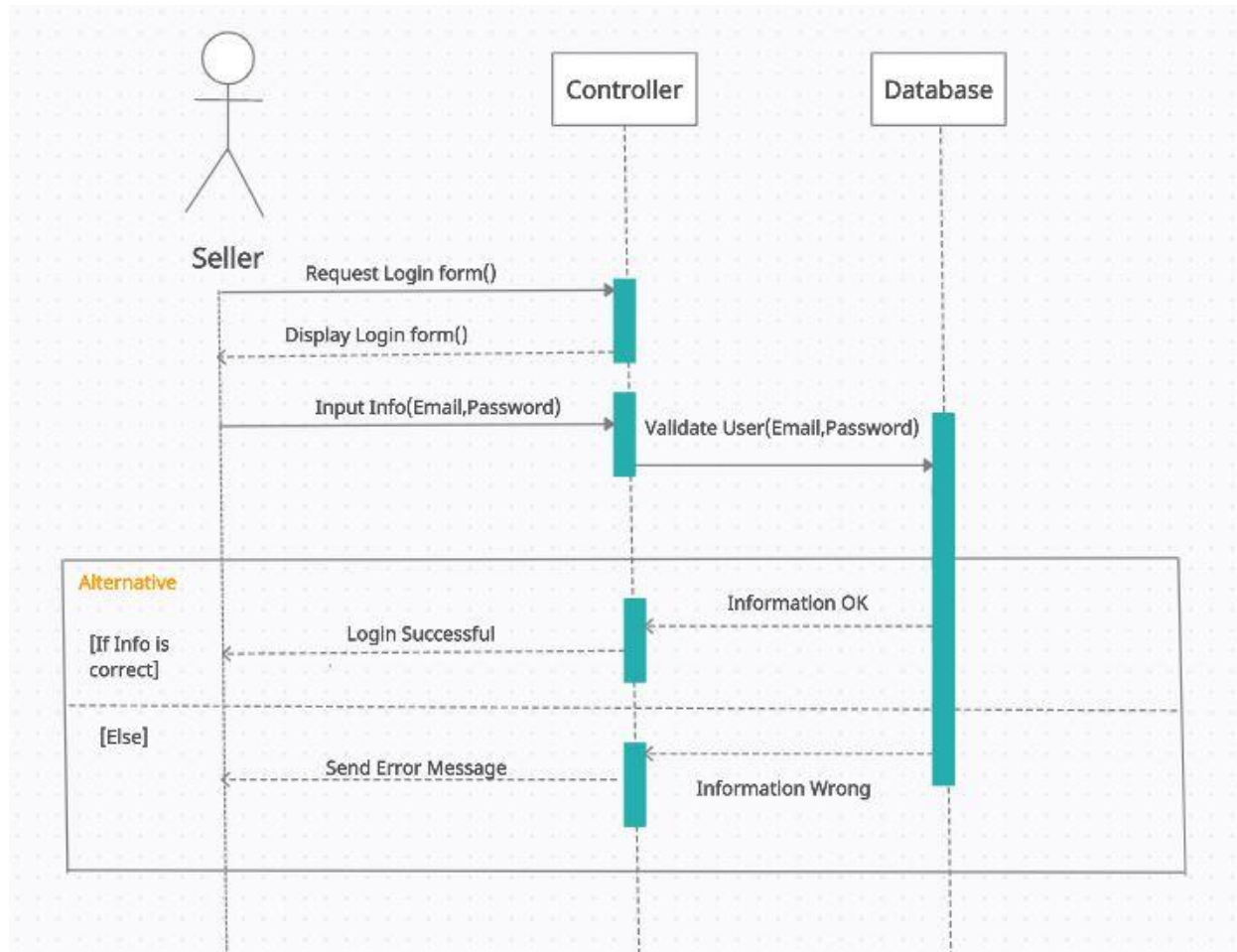
Order Details:

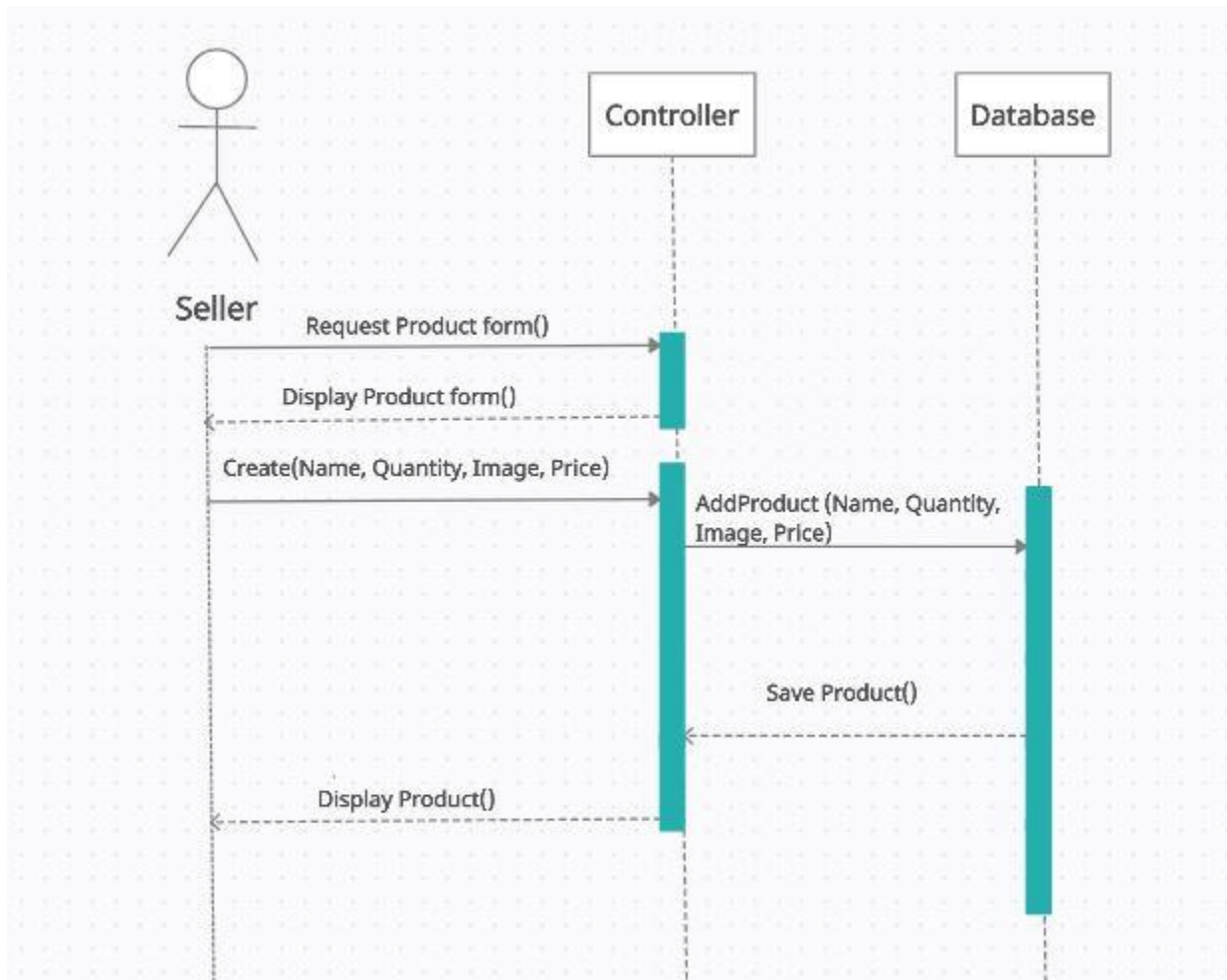
Order Status:

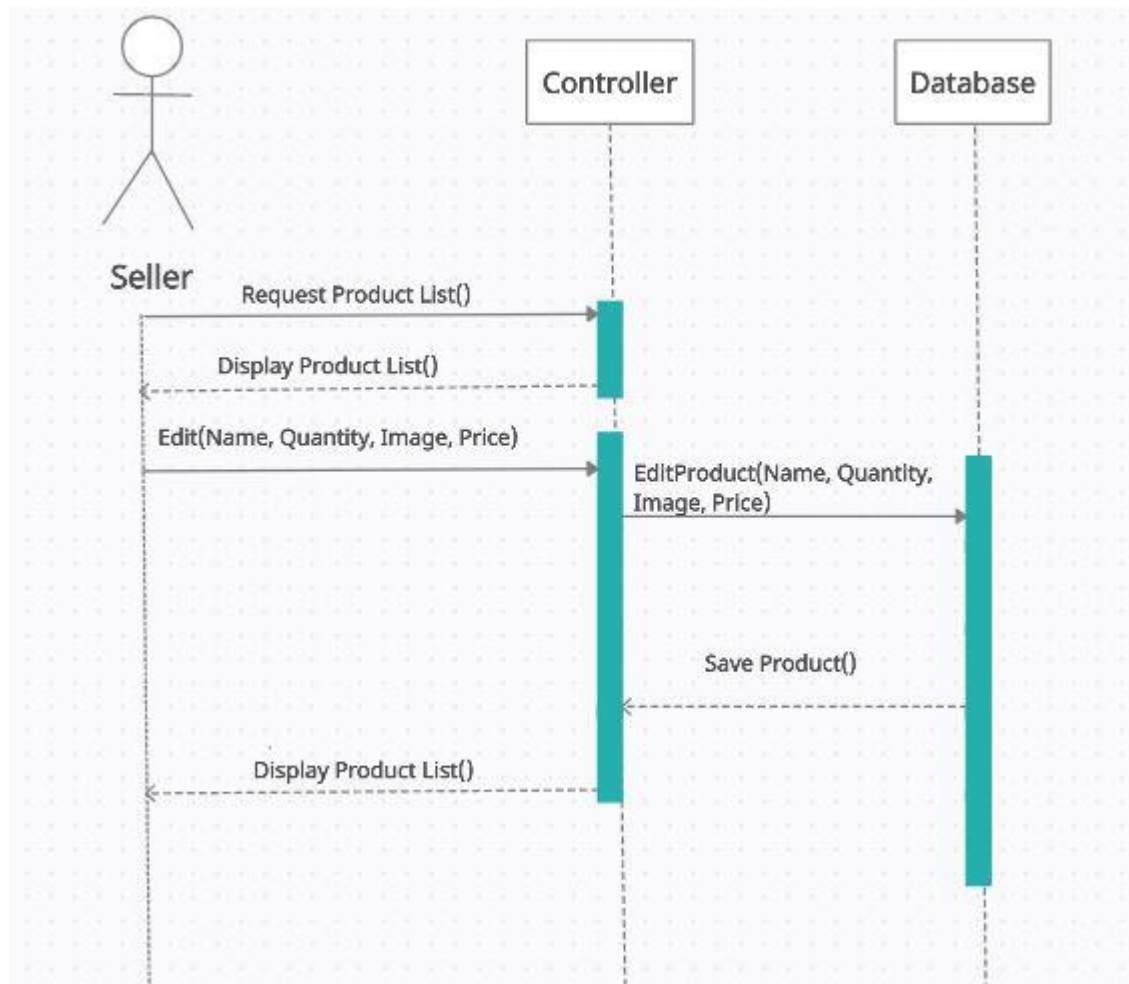
6.2) Sequence Diagram for Seller:

Register:

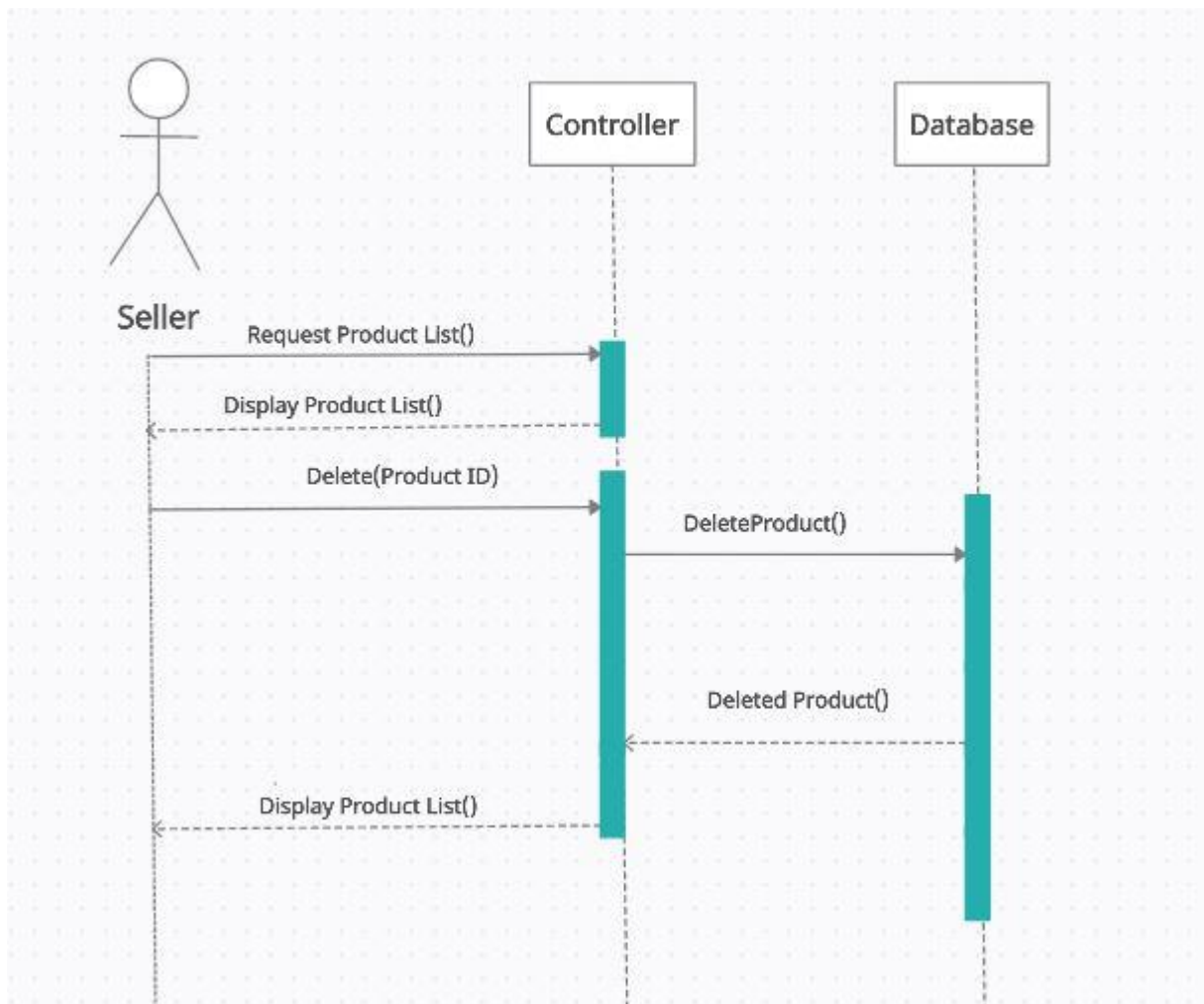


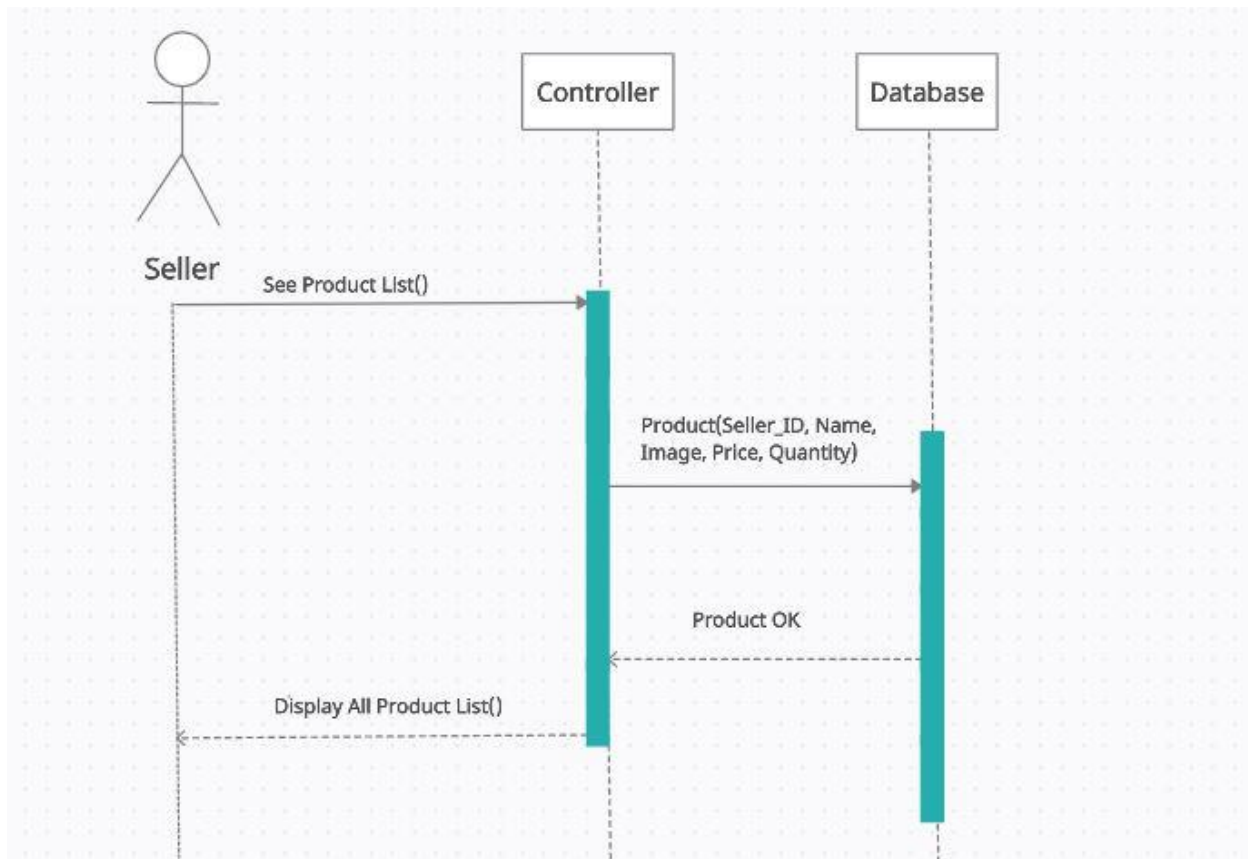
Login:

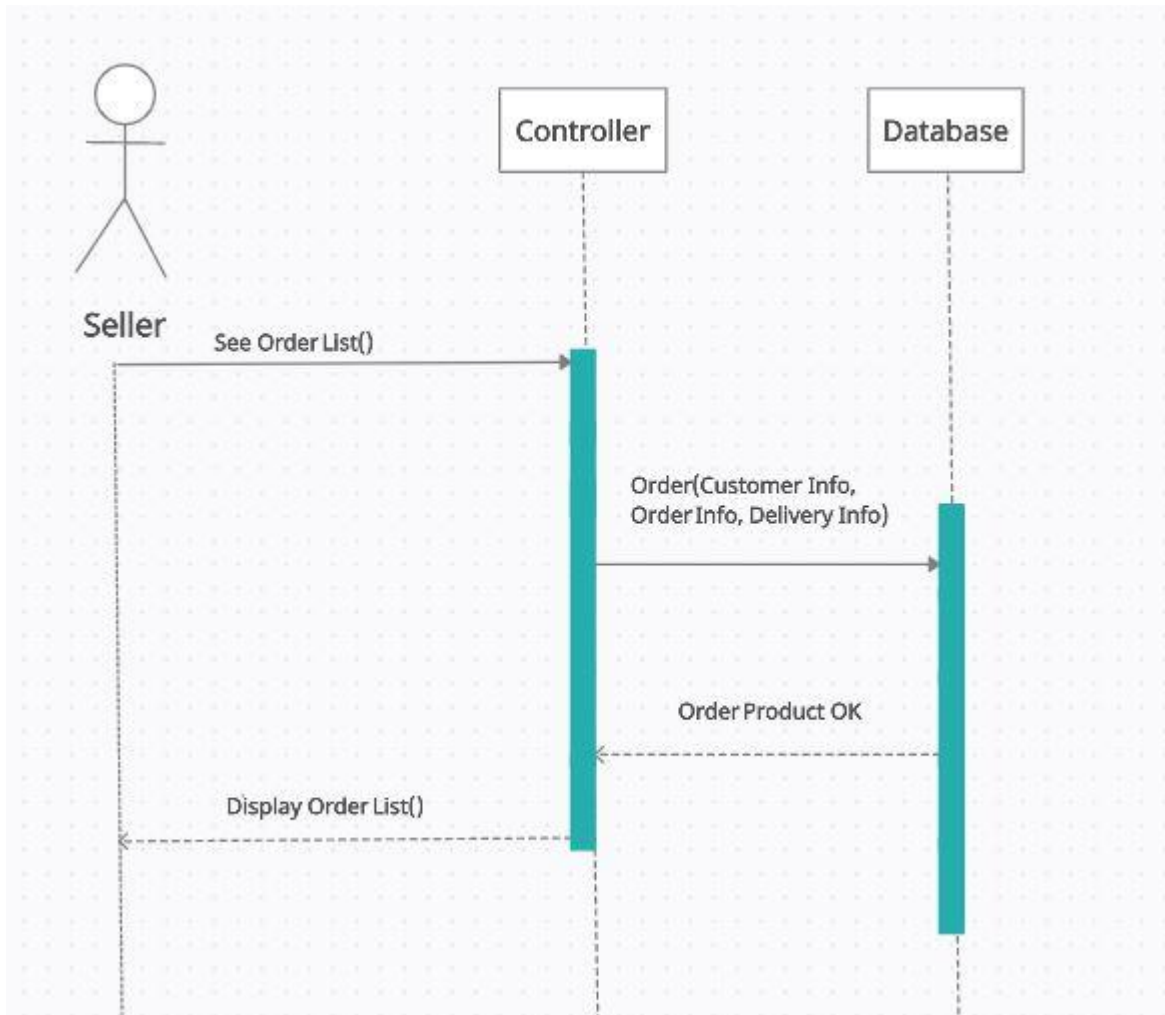
Add Product:

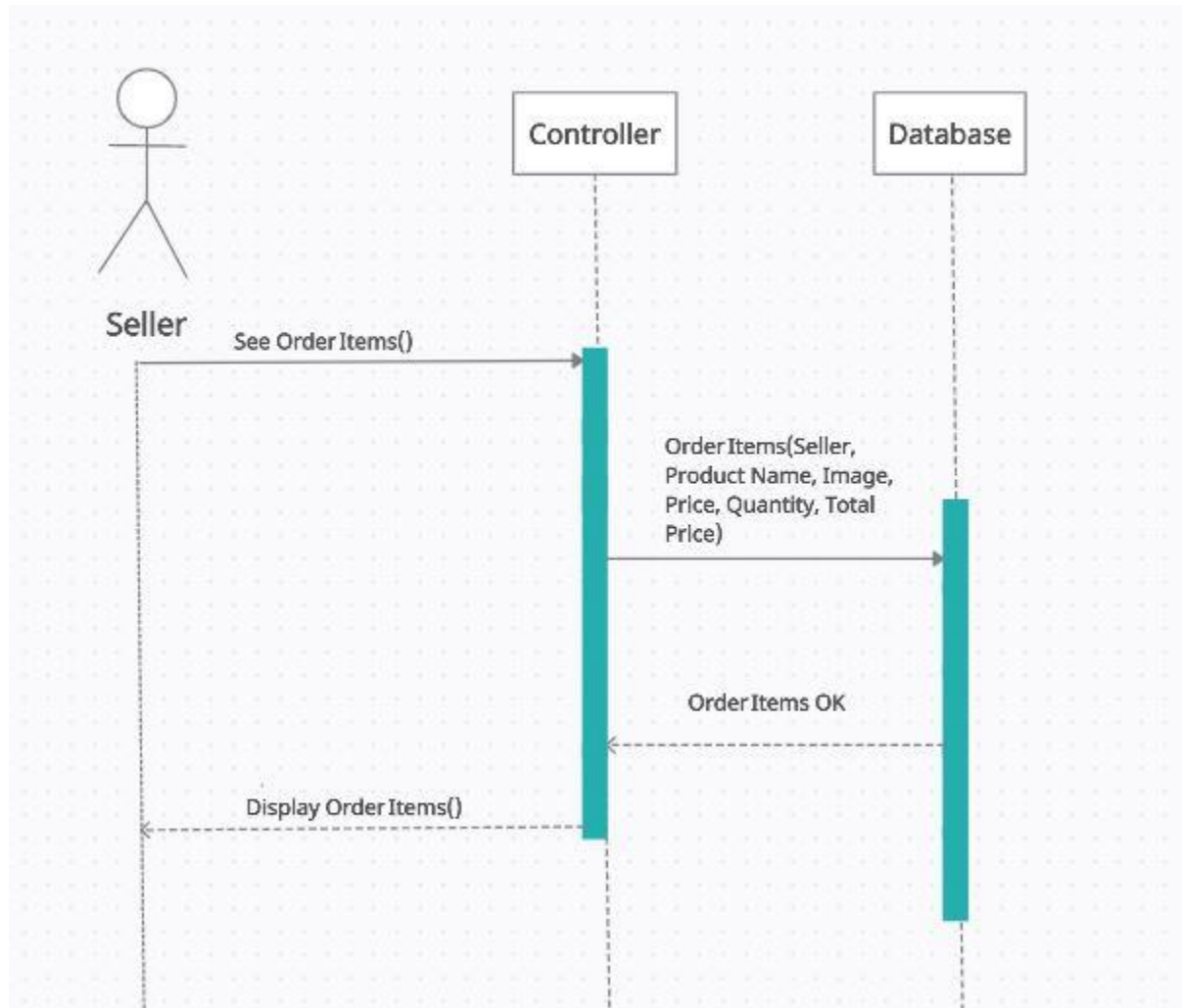
Edit Product:

Delete Product:



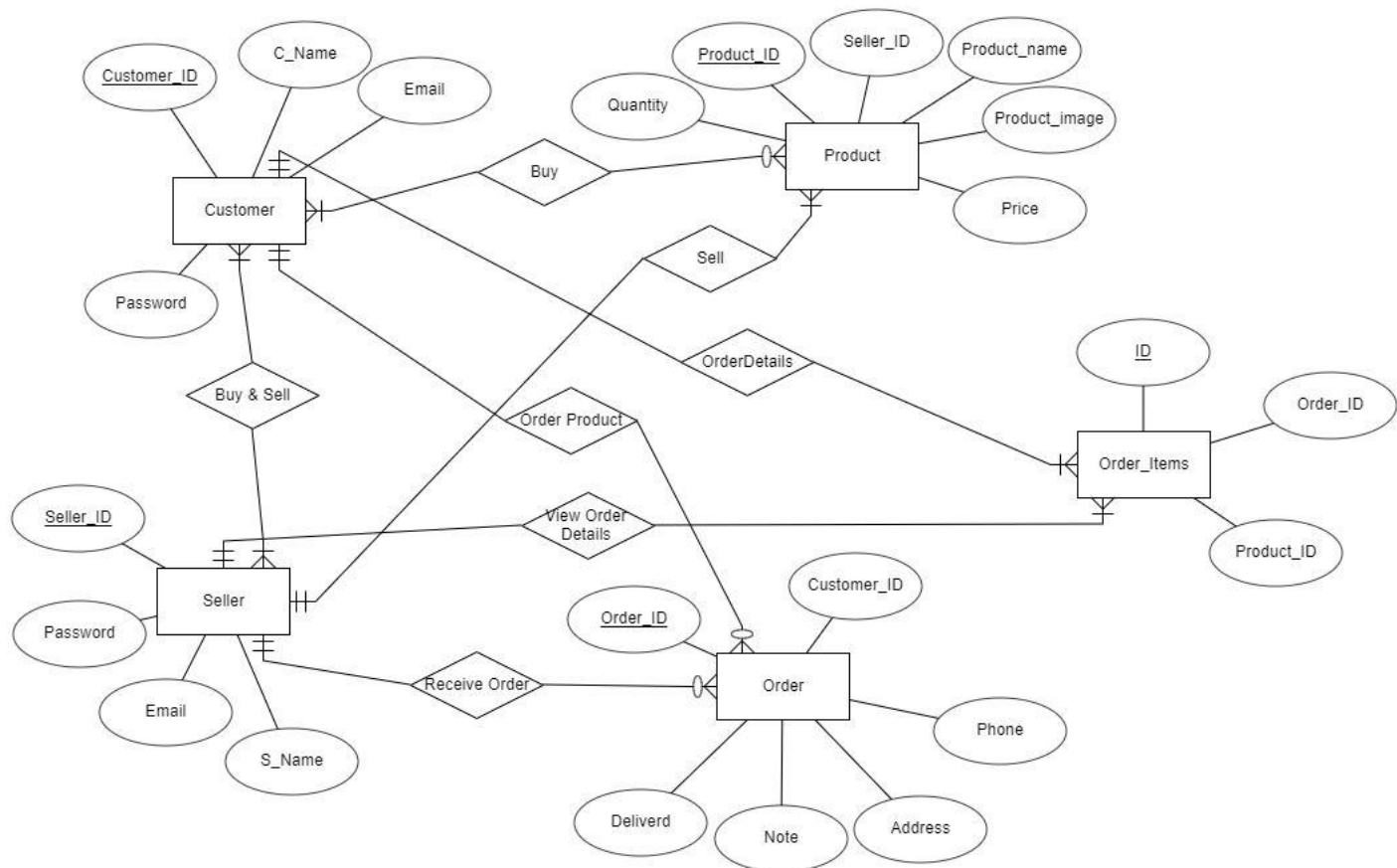
Product List:

Order List:

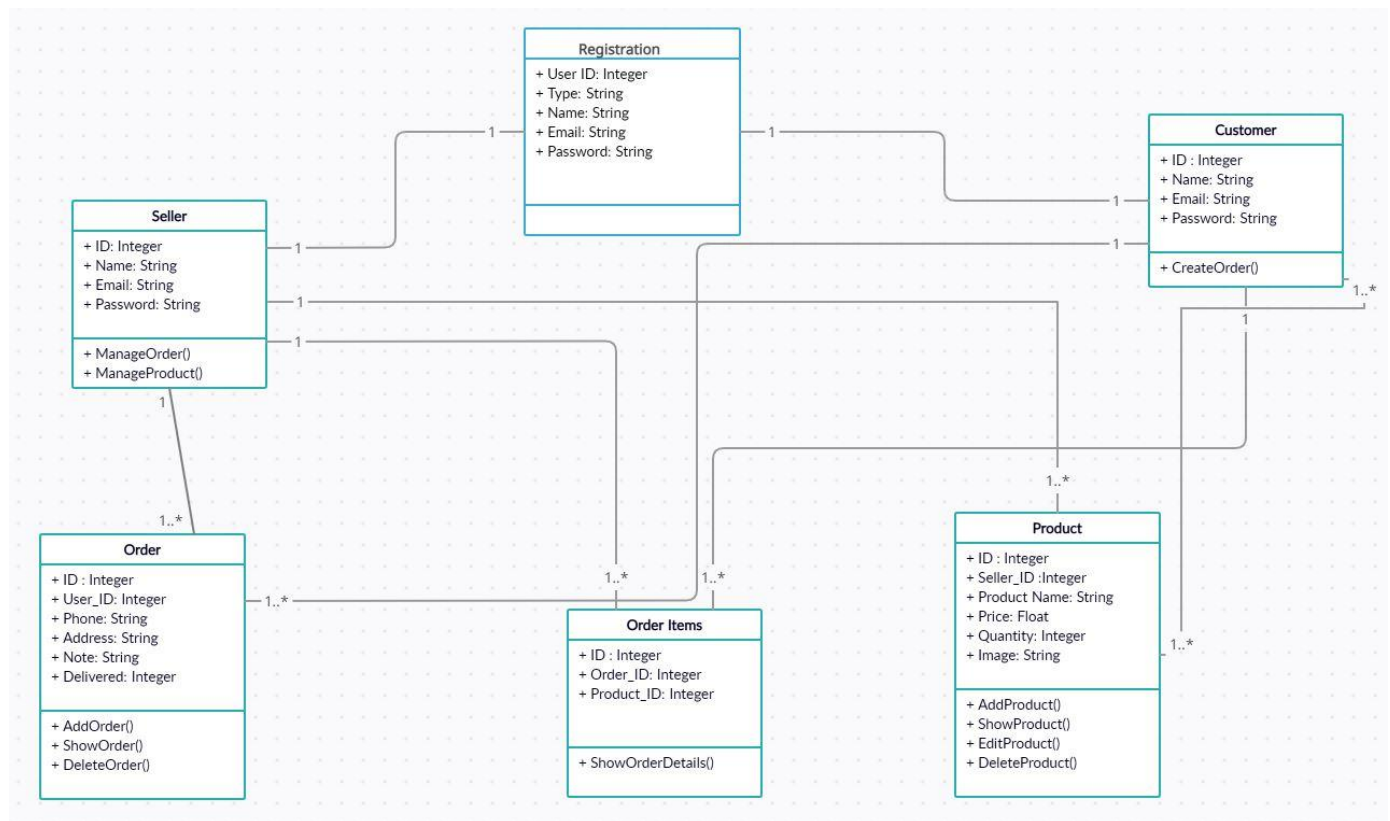
Order Items:

Chapter 7 (ER & Class Diagrams)

7.1) ER-Diagram for Seller:



7.2) Class Diagram for Seller:

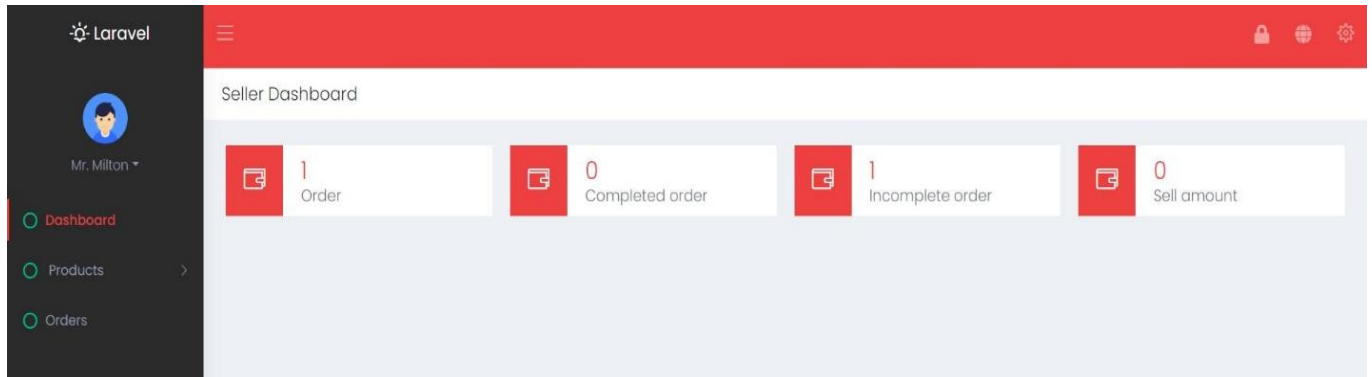


Chapter 8(Tools & Technology)

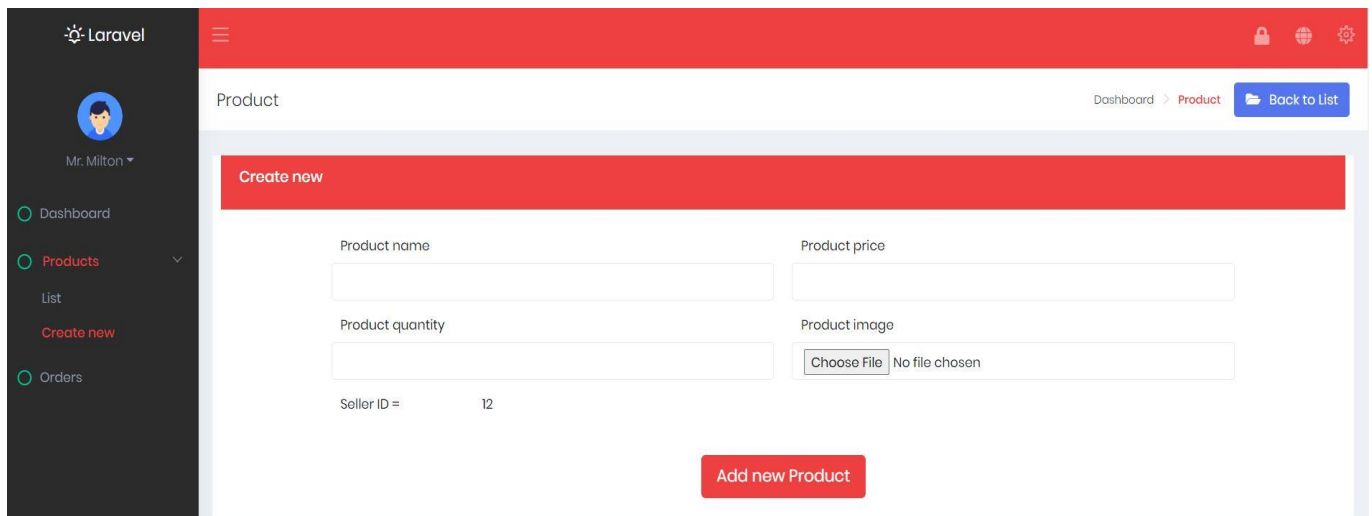
- Server-side: PHP
- Framework: Laravel8
- Client-side: HTML5, CSS3, JavaScript, Bootstrap, jQuery
- IDE: Visual Studio Code
- Version Control: Git & GitHub
- Database: MySQL

Chapter 9(User Manual)

Seller Dashboard:



Add New Product:



Product List:

Product

Dashboard > Product [Create](#)

2 Total Products

250 Products of BDT

600 Total Quantity

Products

Show 10 entries

#	Image	Name	Price	Quantity	Action
23		Biscuit	200.00	100	Edit Delete
22		Cake	50.00	500	Edit Delete

Showing 1 to 2 of 2 entries

Previous 1 Next

Edit Product:

Product

Dashboard

Edit

Product name

Biscuit

Product price

250.00

Product quantity

100

Product image

Choose File No file chosen

Update Product

Delete Product:

The screenshot shows the 'Product' dashboard. At the top, there are three summary cards: '2 Total Products', '250 Products of BDT', and '600 Total Quantity'. Below these is a table titled 'Products' with 2 entries. The table has columns for '#', 'Image', 'Name', 'Price', 'Quantity', and 'Action'. The first row is for 'Biscuit' with a price of 200.00 and quantity of 100. The second row is for 'Cake' with a price of 50.00 and quantity of 500. In the 'Action' column, there are two red boxes, each containing a delete icon (a red square with a white 'X').

#	Image	Name	Price	Quantity	Action
23		Biscuit	200.00	100	
22		Cake	50.00	500	

Order List:

The screenshot shows the 'Orders' dashboard. At the top, there are three summary cards: '1 Total Order', '1 Incomplete Order', and '0 Completed Order'. Below these is a table titled 'Orders Table' with 1 entry. The table has columns for '#', 'Customer', 'Order Info.', 'Delivery', and 'Action'. The first row is for order #1, customer Hal O'Reilly, with a total price of BDT 434.00 and an order time of 12:06 am 05-06-2021. The delivery status is 'Order Process Incompleted'. In the 'Action' column, there are two icons: a blue eye icon and a red square icon with a white 'X'.

#	Customer	Order Info.	Delivery	Action
1	Name: Hal O'Reilly Phone: 4563210 Email @: garfield03@example.org Address: Dhaka	Quantity: 1 Total Price: BDT 434.00 Order Time: 12:06 am 05-06-2021 Order note	Order Process Incompleted	

Order Items:

The screenshot displays a Laravel admin dashboard for 'Product Orders'. The interface includes a sidebar with navigation options: Dashboard, Products, and Orders. The main content area features a table titled 'Order Items (1)' with columns for Seller, Image, Product name, Price, Quantity, and Total. A 'Back to orders' button is located below the table. To the right, a 'CART SUMMARY' box shows a total price of BDT 434.00 and a 'Make Order Completed' button. Below that, a 'Customer Info' box lists the customer's name (Hal O'Reilly), phone number (4563210), email (garfield03@example.org), and location (Dhaka).

Product Orders Dashboard > Product Orders [Back to List](#)

Order Items (1)

Seller	Image	Product name	Price	Quantity	Total
--------	-------	--------------	-------	----------	-------

[← Back to orders](#)

CART SUMMARY

Total Price
BDT 434.00

[Make Order Completed](#)

Customer Info

Hal O'Reilly
4563210
garfield03@example.org
Dhaka

Thanks

Chapter 10

10.1 Future Scope:

This internship helps me a lot to learn about real industry and real life work experience. I have learned a lot, gained a lot of experience since joining the internship. I hope to use my experience to do much better in the future.

10.2 Conclusion:

My experience at “Datatech BD LTD” was really good, All of the employees were nice and friendly, they helped me when I facing problem and also gave me learning materials so that I can make myself better. My supervisor/project manager is very friendly. He would give me work and a deadline. He would help me if I had any problems working. I learned a lot from the company. I think the internship experience will help me build my career. I think everyone should do an internship in the final year. Because we've done a lot of projects before, but there's a lot of ideas about how things work in the industry, how a software company makes a lot of great software.

Joining Letter of Datatech BD LTD.



DATATECH BD LTD.
Shawpno Neer, 272/Kha/3/F, West Agargaon,
She-E-Bangla Nagar, Dhaka-1207
info@datatechbd.com
+880 1304-734623
datatechbd.com
C-152533

INTERNSHIP APPROVAL LETTER

11-02-2021

Md. Khalid Hasan Milton
17/2B, Sukrabad, Dhaka 1207

Dear Md. Khalid Hasan Milton,

We are pleased to offer you an internship program with DATATECH BD LTD. for at least three months. You should note that you're working here as a support of senior web developer. We're specially work on web application development using PHP Laravel as backend framework and react.js as frontend framework.

You may have the knowledge of PHP with Laravel framework and jQuery. We appreciate your interest in DATATECH BD LTD.

Md. Sakir Ahmed
Managing Director
DATATECH BD LTD.



Plagiarism Report:

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Originality
Report**

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171-35-1813 By Md.
Khalid Hasan Milton
