



SHAHEED ZULFIKAR ALI BHUTTO
INSTITUTE OF SCIENCE AND TECHNOLOGY

Final Year Project Report

UY-Supply Store

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Sir Naveed Ghani

Date: 10th August, 2023

Submitted in partial fulfilment of the requirements for the degree of

Bachelors of Science in Computer Science in the

Faculty of Computing and Engineering Services

Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology (SZABIST)

Karachi Campus

PLAGIARISM FREE CERTIFICATE

This is to certify that we, **Umer Ali Usmani** S/O Kaleem Usmani and **Syed Yousuf Fatmi** S/O Muhammad Ismail, are the members of FYP group **UY-Supply Store** under registration numbers **1912327** and **1912325** respectively, at the Department of Computer Science at SZABIST, Karachi. We certify that our FYP documentation has been reviewed by our advisor and the work presented is our own.

Name of Advisor: **Naveed Ghani**

Designation: Assistant Professor

Signature: _____

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Declaration of Authorship

We, Umer Ali Usmani (1912327) and Syed Yousuf Fatmi (1912325), declare that this report titled, "UY-Supply Store" and the work presented in it are our own. We confirm that:

This work was done wholly or mainly while in candidature for a bachelor's degree at this University.

Where any part of this report has previously been submitted for a degree or any other qualification at this University or any other institution, this has been clearly stated.

Where we have consulted the published work of others, this is always clearly attributed.

Where we have quoted from the work of others, the source is always given. With the exception of such quotations, this report is entirely our own work.

We have acknowledged all main sources of help.

Where the report is based on work done by us jointly with others, we have made clear exactly what was done by others and what we have contributed ourselves.

Signed: Umer Ali Usmani (1912327)
 Syed Yousuf Fatmi (1912325)

Date: 10th August, 2023

Acknowledgement

In the name of ALLAH, the most beneficent and merciful who gave us the knowledge and courage to work on this research area.

I would first like to thank my Supervisor Mr. Naveed Ghani of the Computer Science faculty at SZABIST University. The door to his office was always open whenever I ran into a trouble spot or had a question about my work or writing. He consistently helped, cooperated and motivated me throughout the research.

I also thanks to our teachers who guided us in the light of their knowledge and experience. I would also like to express my gratitude to my loving parents and family members who helped and gave us encouragement.

At the end, I would like to thank SZABIST University for providing me such an inspiring environment. The quality education, the cooperative faculty members and the challenging environment have always motivated and boosted the confidence level of each and every student who has been a part of SZABIST University.

And many thanks to all those who let us share their knowledge and resources.

Project Description

A real-time Web-application platform with distributed system architecture for automated buying and selling of raw materials, machinery parts, and bi-products. The following are the goals.

Our idea is based on B2B Market and our main consumer will be industrial professionals who are involved in procurement and salvaging process. Interpretivism applies to our research, since the knowledge generated is time, culture and value bound and focus of interest is unique while nature of reality is socially constructed however, the desired information deals with knowing what people think and do and how they deal with a problem when confronted by it. Since our services is for making the process of salvaging and procurement easier for industrial machineries almost all the industries ranging from automotive to textile and power generation to consumer good manufacturing companies are our target market.

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Proposal:

1. Introduction

We will design a real-time Web-application platform with distributed system architecture for automated buying and selling of raw materials, machinery parts, and bi-products. The following are the goals.

Our idea is based on B2B Market and our main consumer will be industrial professionals who are involved in procurement and salvaging process. Interpretivism applies to our research, since the knowledge generated is time, culture and value bound and focus of interest is unique while nature of reality is socially constructed however, the desired information deals with knowing what people think and do and how they deal with a problem when confronted by it. Since our services is for making the process of salvaging and procurement easier for industrial machineries almost all the industries ranging from automotive to textile and power generation to consumer good manufacturing companies are our target market.

2. Objective

To design a real time Web-Application platform for automated the buying and selling raw materials, machinery parts, bi-products with distributed system architecture. Following are the objectives.

- To ease their process of purchasing raw materials, machinery parts, bi-products of one firm which could be useful for other firms.
- Companies focus on their core business and do not have time to invest in selling unused machine parts, bi-products neither do they have a list of genuine buyers who want to buy them nor do they have time to call a list of companies to purchase them.
- If the same company is looking for a specific spare part they currently do not have the right place to look for which will list the sellers of that particular item. Cost Saving is the key driver for Circular Economy in manufacturing industry (Stahel, 2010; Walsh, 2010).

3. Problem Description

We are Developing a real-time Web-application platform with distributed system architecture for automated buying and selling of raw materials, machinery parts, and bi-products.

This platform will be available online and can be accessed from a web browser. It will not only connect the buyers and sellers but it will also rate both the parties on their feedback once their transaction is completed. This will build a user profile and help other users to gain trust on the seller.

Our platform will not target any specific industry or item, it would be used as general. But initially we will be targeting industrial machinery which do have wear and tear parts and parts of a machine may be used for another machine which will eliminate the cost of importing machines from the international market and the need can be fulfilled domestically if available.

In the current market as the process for purchasing and selling high-level industrial machines and equipment is mostly manual, that is the process involves much physical activity, where the organization requires them to sell their machine/equipment and initiate the process by giving advertisements in newspapers or through word of mouth and vice-versa for the organization who wants to purchase.

Selling these equipments/machines require much manual effort, where the businesses have to face hassle; scouring the local market for equipment's or machine parts, worrying about the fact that those items are authentic or not, unavailability of or reliable products within the local markets, dealing with incompetent people and wasting time on bargaining on the products. These all things consume much time and effort, which businesses do not tend to waste much.

We will Create a Web-Application using Reactjs and AI KNN algorithm which will directly connect buyer and the seller and will potentially eliminate the middle man and will help both buyer and seller to buy these products easily.

4. Methodology

We will use React.js to design and create our Web-Application platform and will use python for AI algorithm named KNN for product Recommendation.

5. Project Scope

Through our system unused or spare machinery, parts, raw material, bi-products, material wastage could be traded and circulated in the system so that resources can be efficiently utilized. Being the system online it is hassle free to dwell into the market and negotiate with the dealers in scrap market with the doubt of purchasing the faulty parts. This will reduce time from couple of days to couple of minutes. Also, the inspection services will benefit buyers to clear all the doubt about the article to be purchased.

For instance, if a non-commercial user owns a 3D printer and it has suddenly stopped working he can look for the parts that need to be replaced. Normally these parts are not available in the market easily or could take a couple of months to import and cost the freight. Instead of going through time taking and hectic channels. The user can simply login to our system and look for parts available from a company or an individual.

6. Feasibility Study

With above defined scope, would you be able to meet your project schedule? Do mention following aspects:

- i. **Risks Involved:** The only consumption barrier we assume we will face will be encouraging industrial profession to move from their status quo and adapt to the new way of procurement which we are offering through our platform. Initially if only 20% of the market starts using our system there would be a significant effect on listing and availability of machinery parts which will be fulfilling requirements of replacing faulty parts with the acquired ones through our system which will be inspected and reliability factor would become a plus point for the buyer
- ii. **Resource Requirement:** There is no such high requirement in developing this web-application but we will need a strong Computer to train our AI algorithm.

7. Solution Application Areas

No our Project is not of any real value. We're Targeting our Industrial professionals here in Pakistan. Our Programmed Software/ Web Application will help them in buying and selling of raw material, bi-products & machinery parts etc.

8. Tools/Technology

Vscode , Firebase & Jupyter for Python algorithms

9. Expertise of the Team Members

No, Both of us are in a learning phase. We both are Learning React.js to work in our Web-Application / FYP. We haven't Studied any React.js course in our university but we are doing self learning from different online platforms. Yet we have some knowledge about machine learning and will use different AI algorithm in our Web-Application for adding Recommendation system to have better experience for the user. Yes this project is of equal interest for both of us.

10. Milestones

- Planning
- Project Requirements
- Existing system integration
- Designing User Interface (UI)
- Interactive sections/ appeal the clients
- Creating Code Design
- Development Environment
- Code Generation
- SQA Testing
- Bug Fixes (If any)
- Results Report

Functionalities:

Business logo

User-friendly navigation

Wishlist

Customer login

Shopping cart

Featured products or Best selling products or New arrivals

Product filtering and sorting

Good quality of images with zoom in functionality

Add to cart button

Product description

Consumer reviews on products

11. Project Schedule

TASK NAME	WEEK - 1	WEEK - 2	WEEK - 3	WEEK - 4	WEEK - 5	WEEK - 6	WEEK - 7	WEEK - 8	WEEK - 9	WEEK - 10	WEEK - 11	WEEK - 12	WEEK - 13	WEEK - 14	WEEK - 15	WEEK - 16
INITIAL STEPS																
Project requirement																
Domain name																
Existing system Integration																
LEARNING RESPECTIVE TECHNOLOGY FOR WORKING																
Reactjs																
PLANNING																
Requirements Documentation																
DESIGNING																
Design UI for the website																
Interactive sections/ appeal the clients																
Restricted content																
Unrestricted content																

12. Work Breakdown Structure

Work Breakdown Structure (WBS)		
Serial No.	Modular Functionality	Time Duration
1	INITIAL STEPS	1 week
1.1	Project requirement	2 weeks
1.2	Domain name	
1.3	Existing system Integration	1 week
2	LEARNING RESPECTIVE TECHNOLOGY FOR WORKING	
	Reactjs	4-5 weeks
3	PLANNING	
3.1	Requirements Documentation	2-3 weeks
4	DESIGNING	
4.1	Design UI for the website	2 weeks
4.2	Interactive sections/ appeal the clients	1-2 weeks
4.3	Restricted content	
4.4	Unrestricted content	
5	WEBSITE DEVELOPMENT	
5.1	Create code design	
5.2	Development Environment	
5.3	User Interface Design	
5.4	Code Generation	
5.5	Bug Fixes	
5.6	Content	
5.7	Product catalogue / Description / Images	
6	WEBSITE TESTING	
6.1	Test Plan	
6.2	User Acceptance Testing	
6.3	Test Environment Setup	
6.4	Results Report	
7	Website Deployment	

For FYP 1:

Final Year Project - 1		
Serial No.	Task for FYP - 1	Time Duration
1	INITIAL STEPS	1 week
1.1	Project requirement	2 weeks
1.2	Domain name	
1.3	Existing system Integration	1 week
2	LEARNING RESPECTIVE TECHNOLOGY FOR WORKING	
	Reactjs	4-5 weeks
3	PLANNING	
3.1	Requirements Documentation	2-3 weeks
4	DESIGNING	
4.1	Design UI for the website	2 weeks
4.2	Interactive sections/ appeal the clients	1-2 weeks
4.3	Restricted content	
4.4	Unrestricted content	

For FYP 2:

	A	B	C
1		Final Year Project - 1	
2	Serial No.	Task for FYP - 1	Time Duration
3	1	INITIAL STEPS	1 week
4	1.1	Project requirement	2 weeks
5	1.2	Domain name	
6	1.3	Existing system Integration	1 week
7	2	LEARNING RESPECTIVE TECHNOLOGY FOR WORKING	
8		Reactjs	4-5 weeks
9	3	PLANNING	
10	3.1	Requirements Documentation	2-3 weeks
11	4	DESIGNING	
12	4.1	Design UI for the website	2 weeks
13	4.2	Interactive sections/ appeal the clients	1-2 weeks
14	4.3	Restricted content	
15	4.4	Unrestricted content	

13. References

- Cost Saving is the key driver for Circular Economy in manufacturing industry (Stahel, 2010; Walsh, 2010).

Software Requirements Specification

UY-Supply Store

Version 1.1 approved

Prepared by

Umer Ali Usmani 1912327

Syed Yousuf Fatmi 1912325

25-1-2023

Revision History

Name	Date	Reason For Changes	Version
Umer Ali Usmani 1912327 & Syed Yousuf Fatmi 1912325	31st-jan- 2023	As instructed by the supervisor	1.1

Introduction

1.1 Purpose

We will design a real-time Web-application platform with distributed system architecture for automated buying and selling of raw materials, machinery parts, and bi-products. The following are the goals.

Our idea is based on B2B Market and our main consumer will be industrial professionals who are involved in procurement and salvaging process. Interpretivism applies to our research, since the knowledge generated is time, culture and value bound and focus of interest is unique while nature of reality is socially constructed however, the desired information deals with knowing what people think and do and how they deal with a problem when confronted by it. Since our services is for making the process of salvaging and procurement easier for industrial machineries almost all the industries ranging from automotive to textile and power generation to consumer good manufacturing companies are our target market.

1.2 Document Conventions

Headings	Font Size: 16pts Font Style: New Times Roman
Sub Headings	Font Size: 14pts Font Style: New Times Roman
Regular Text	Font Size: 12pts Font Style: New Times Roman

1.3 Intended Audience and Reading Suggestions

The people looking to purchase a raw materials, machinery parts, and bi-products that meets their needs are the target audience for this document. The major goal of this project is to give the customer a range of options from which to choose a system that meets their fundamental requirements. Additionally, this project will give entrepreneurs the chance to market their goods on a reliable platform. Furthermore, Here is a quick summary of the document:

- Introduction
- Overall Description.
- External Interface Requirements.
- System Features.
- Other Non-Functional Requirements.

1.4 Product Scope

To design a real time Web-Application platform for automated the buying and selling raw materials, machinery parts, bi-products with distributed system architecture. Following are the objectives.

- To ease their process of purchasing raw materials, machinery parts, bi-products of one firm which could be useful for other firms.
- Companies focus on their core business and do not have time to invest in selling unused machine parts, bi-products neither do they have a list of genuine buyers who want to buy them nor do they have time to call a list of companies to purchase them.

If the same company is looking for a specific spare part they currently do not have the right place to look for which will list the sellers of that particular item. Cost Saving is the key driver for Circular Economy in manufacturing industry

1.5 References

- <https://www.slideshare.net/inderjeetsingh90/srs-for-project>
- <https://www.uml-diagrams.org/index-examples.html>

2. Overall Description

2.1 Product Perspective

UY Supply Stores is an online E-commerce Machinery website which supports a number of functions for both the consumer and industry management. The website must be available to anyone using the Computer and as such must work correctly in both Microsoft Edge and Mozilla Firefox. As stated by the customer, there are no hardware or software requirements beyond these including, but not limited to, memory or specific software packages that need to be utilized nor software packages that need not be utilized.

2.2 Product Functions

Register: for customers and sellers

- **Login:** for customers and sellers
- **Logout:** for customers
- **Search item:** for customers
- **View item:** for customers
- **Add item to cart:** for customers
- **View shopping cart:** for customers
- **Change items in cart:** for customers
- **Delivery & payment:** for customers
- **Place order:** for customers
- **View sales:** for sellers
- **Deliver items:** for sellers

2.3 User Classes and Characteristics

Customer: A verified user of the system who intends to purchase a good from a platform-using supplier. Customers can register, check their accounts, log in, browse products, view products, buy products now, add products to carts, view carts, continue shopping, enter delivery addresses, and enter

mode of payment, payment made, orders placed, orders viewed, packages, reviews left, orders cancelled and logout

Seller: A verified user of the product who intends to sell goods over the platform is referred to as a seller. Register, see account, log in, upload listing, your sales, and deliver the goods to clients are all product functions that buyers use.

2.4 Operating Environment

We will Use Vs Code to Operate our software and will connect it to firebase for user authentication.

2.5 Design and Implementation Constraints

- The information of all the users must be stored in a database to store the data for later use.
- User may access from any browser that has internet browsing capabilities and an internet connection.
- User should know their valid username and passwords to access their account.

2.6 User Documentation

<List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.>

- Software Requirement Specification (SRS)
- System Sequence Diagram (SSD)
- Use Cases
- Entity Relationship Diagram (ERD)
- Domain model
- Test Cases
- Iteration plan

2.7 Assumptions and Dependencies

Designing a modular view of the system is simple if a Windows operating system is available, and Reactjs. We also assume that just one buyer can order a simple tool at a time, however we'll try to expand the scope. Although the functionality of the recommendation models will be relevant to customers, it is assumed that they will be server-dependent and that the server will define them more clearly.

3 External Interface Requirements

3.1 User Interfaces

- Web Front-end software/Technology: React JS.
- Back-end software: Firebase

3.2 Hardware Interfaces

The hardware interface for user is a device running the Windows operating System capable enough to run the Web-application smoothly.

3.3 Software Interfaces

- This online retail system's web pages were primarily created using development tools like HTML, CSS, JavaScript, Bootstrap, React js.
- This online shopping platform can be accessed using Windows and the internet.
- Furthermore, for the need of database, we will use firebase which we fulfil our requirement.

3.4 Communications Interfaces

By entering the system's name into the web browser, the user can access the online purchasing system.

- The system must communicate over the internet using the HTTP protocol.
- The system also provides follow-up messages to the customer's phone number and email id.
- The system also provides follow-up messages to the customer's phone number and email id to update the customer about the shipping process, such as "Your product is out for delivery" "shall arrive in 5 days," etc.

4 System Features:



USE CASE NAME:	Sign up	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-001	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a customer wants to register to the Website.	
PARTICIPATING ACTORS:	Customer, Seller	
DESCRIPTION:	This use case describes how a user will sign up on the UY Supply.	
PRE-CONDITION:	None	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	User clicks Sign Up	Shows Sign Up Page
	User Enters Email	
	User enters their name	Sets user’s name
	User enters pin	Ask to re-enter pin
	User re-enters pin	Show Login page
ALTERNATE COURSES:	None	
POST-CONDITION:	User account is created.	



USE CASE NAME:	Login	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-002	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a customer wants to login to the Website.	
PARTICIPATING ACTORS:	Customer, Seller	
DESCRIPTION:	This use case describes how a user will login on the Uy-Supply Website	
PRE-CONDITION:	Account Should be created / Existed	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	User Taps Login	Shows Login Page
	User Enters Email	Verify Credentials
	User enters pin	
		Show home screen
ALTERNATE COURSES:	None	
POST-CONDITION:	Account Active / Logged In	

USE CASE NAME:	Products	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-003	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a customer explores the store to select product/s	
PARTICIPATING ACTORS:	Customer	
DESCRIPTION:	This use case describes the procedure when the customer browses products.	
PRE-CONDITION:	Must be logged in	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Customer selects a product	-Product is added to the cart
		-A list of product details are displayed
		-Total cost of product is displayed
ALTERNATE COURSES:	None	
POST-CONDITION:	Moves to payment process	



USE CASE NAME:	Cart	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-005	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a customer adds to the cart.	
PARTICIPATING ACTORS:	Customer	
DESCRIPTION:	This use case describes the procedure when the customer moves to the cart.	
PRE-CONDITION:	Item/'s must be selected	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Customer selects a item	-Item is added to the cart
		-A list of item details is displayed
		-Total cost of item is displayed
ALTERNATE COURSES:	None	
POST-CONDITION:	Moves to payment process	

USE CASE NAME:	Component's Price		USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements <input type="checkbox"/> Extension
USE CASE ID:	TR-005		
PRIORITY:	1		
TRIGGER:	This user case is initiated when a customer presses the cart button		
PARTICIPATING ACTORS:	Customer		
DESCRIPTION:	This use case describes the procedure when the customer proceeds towards the cart in order to view component's price		
PRE-CONDITION:	Product must be selected		
TYPICAL COURSE OF EVENTS:	Actor Action	System Response	
	Customer selects cart button	-Cart page is displayed	
		-Each component's price is displayed	
ALTERNATE COURSES:	None		
POST-CONDITION:	Move to payment process		

USE CASE NAME:	Payment Process	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-006	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a customer completes add to cart process.	
PARTICIPATING ACTORS:	Customer	
DESCRIPTION:	This use case describes the procedure when the customer proceeds towards payment process	
PRE-CONDITION:	Product must be selected	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Customer selects payment process button	-Payment process page is displayed
		-Display a list of payment methods.
ALTERNATE COURSES:	None	
POST-CONDITION:	Print Receipt	

USE CASE NAME:	View Receipt		USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-007		
PRIORITY:	1		
TRIGGER:	This user case is initiated when a customer places an order		
PARTICIPATING ACTORS:	Customer		
DESCRIPTION:	This use case describes the procedure when the customer pays for bill and wants to view the receipt for later use.		
PRE-CONDITION:	Order must be placed		
TYPICAL COURSE OF EVENTS:	Actor Action	System Response	
	Customer places an order	-Order details are gathered	
		-Payment receipt is generated	
		-Order receipt is displayed to the customer	
ALTERNATE COURSES:	None		
POST-CONDITION:	None		

Seller

List a product

USE CASE NAME:	Upload Inventory Sheet	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-008	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a Seller selects upload sheet button	
PARTICIPATING ACTORS:	Seller	
DESCRIPTION:	This use case describes the procedure when the Seller logs into the system and uploads the Product	
PRE-CONDITION:	Merchant must be logged in	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Merchant Select Product	Product Selected
	Seller Enter Details of Product	Verify Details
	Seller presses Update Button	Display Successfully Listed
ALTERNATE COURSES:	None	
POST-CONDITION:	Update the inventory sheet	

USE CASE NAME:	Feedback / testimonial		USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-009		
PRIORITY:	1		
TRIGGER:	This user case is initiated when a customer wants to give a feedback to the Website or product.		
PARTICIPATING ACTORS:	Customer		
DESCRIPTION:	This use case describes how a user give feedback on the UY Supply.		
PRE-CONDITION:	None		
TYPICAL COURSE OF EVENTS:	Actor Action	System Response	
	User clicks feedback	Feedback form	
	User enter review	Show Testimonial page	
ALTERNATE COURSES:	None		
POST-CONDITION:	User account is created.		

USE CASE NAME:	COD	USE CASE TYPE Abstract: <input type="checkbox"/> Business Requirements Extension <input type="checkbox"/>
USE CASE ID:	TR-010	
PRIORITY:	1	
TRIGGER:	This user case is initiated when a customer click checkout button	
PARTICIPATING ACTORS:	Customer	
DESCRIPTION:	This use case describes how COD Works	
PRE-CONDITION:	None	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	User clicks checkout	Checkout page displayed Display a list of payment
		Wait for customer to select Payment Method
ALTERNATE COURSES:	None	
POST-CONDITION:	Payment method selected	

5.0 Other Nonfunctional Requirements

5.1 Performance Requirements

The main performance requirements include Quick route response time and refresh rate of the application. For instance, if a customer wants to buy a product, the items page must load all items without lagging. Data must be fetched and filtered as per the user demands which indicates data retrieval from backend must be addressed smoothly.

5.2 Safety Requirements

No safety requirements apply on UY Supply Stores

5.3 Security Requirements

The use of firebase functionality ensures a secure data backup in case of an unexpected security breach. This will ensure privacy and data integrity which is a must to run the app.

5.4 Software Quality Attributes

Portability: Because the app is compatible with any Browser, it may be used whenever and wherever there is a steady internet connection.

Reliability: Data is protected on a remote backup file.

Interoperability: the ability of connected interfaces to move a user easily across screens as required.

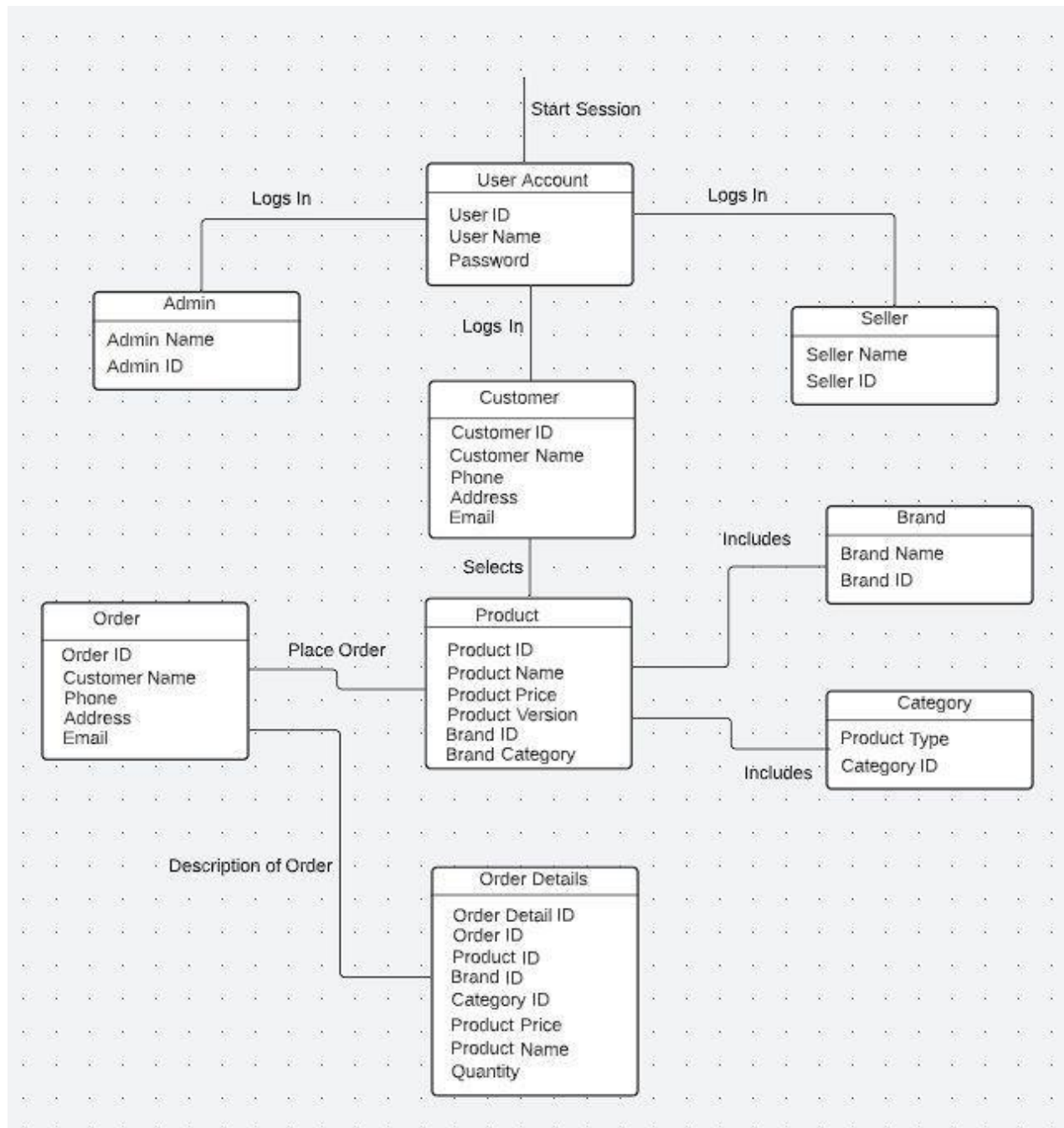
Flexibility: The app lists a lot of data and can handle the maximum amount of queries.

5.5 Business Rules

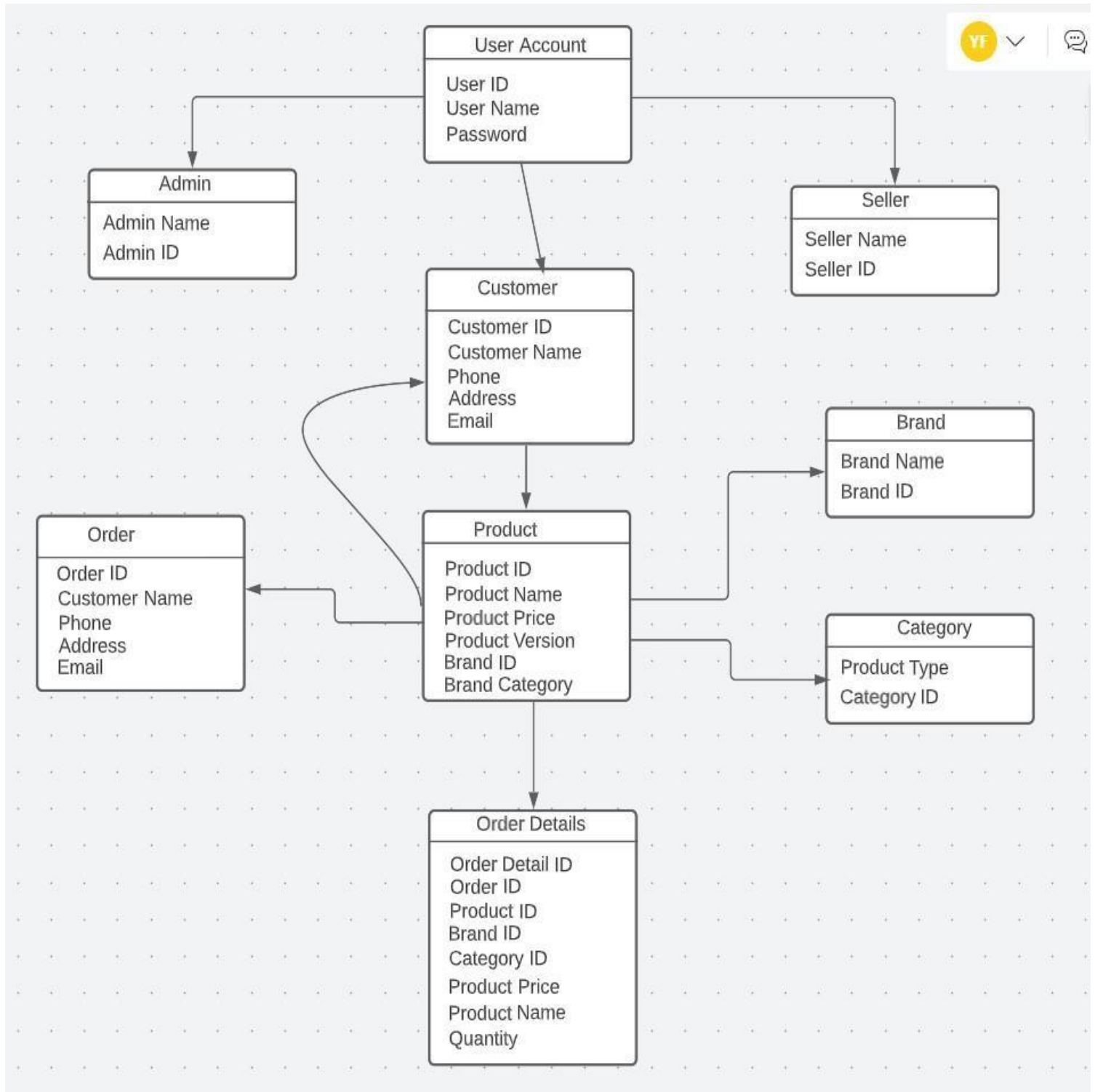
- The concept that there are separate subsystems for buyers and sellers means that each type of user has access to various levels of functions. Registration, login, seeing account details, and modifying account details are some of the features shared by the two subsystems.
- The uploading of items to the inventory and the seller's sales information are two functionalities that are unique to seller subsystems. Customers can also access a variety of browsing, shopping, and delivery tools as well as cancellation, and review choices.

6 Other Requirements

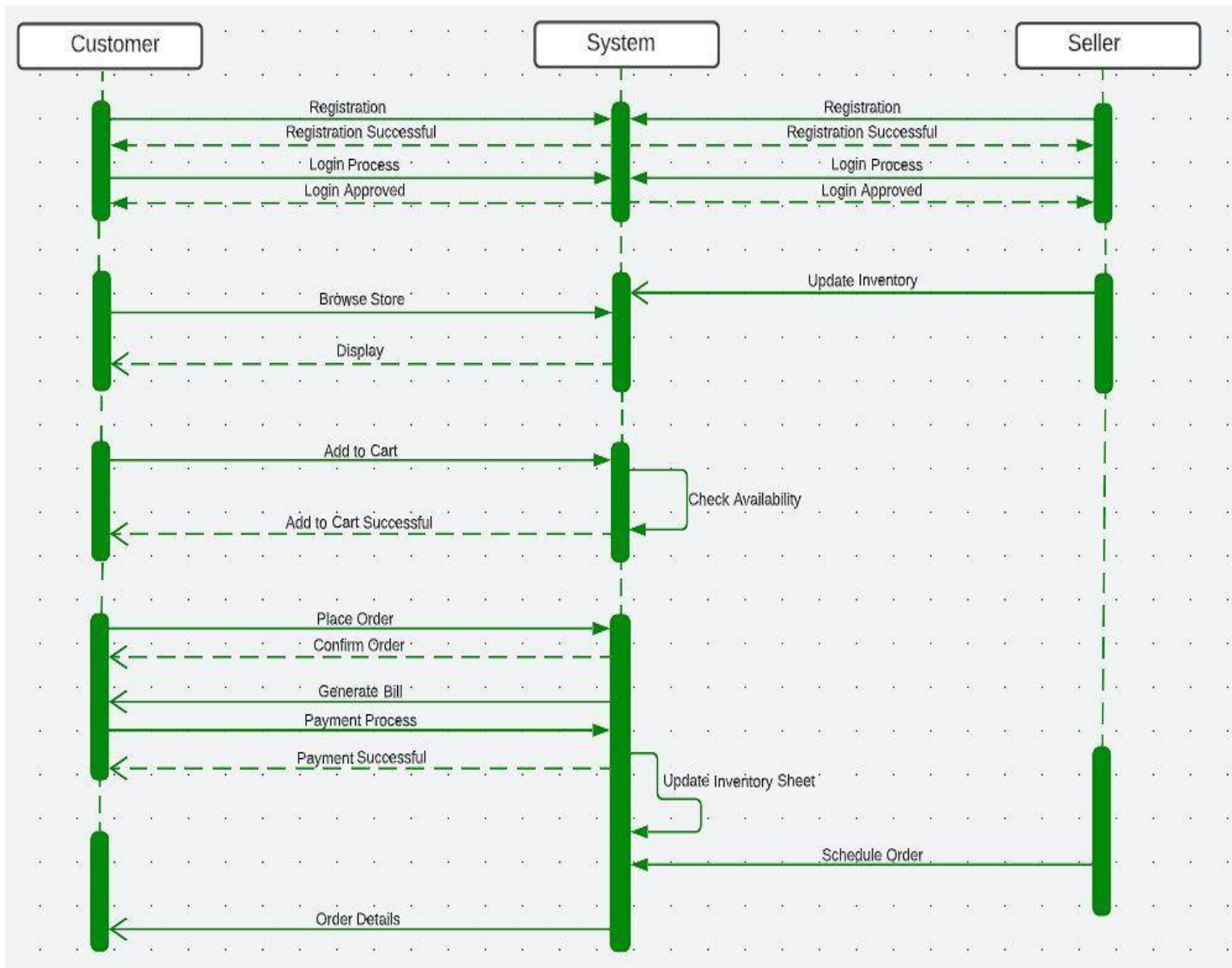
6.1 Domain Model:



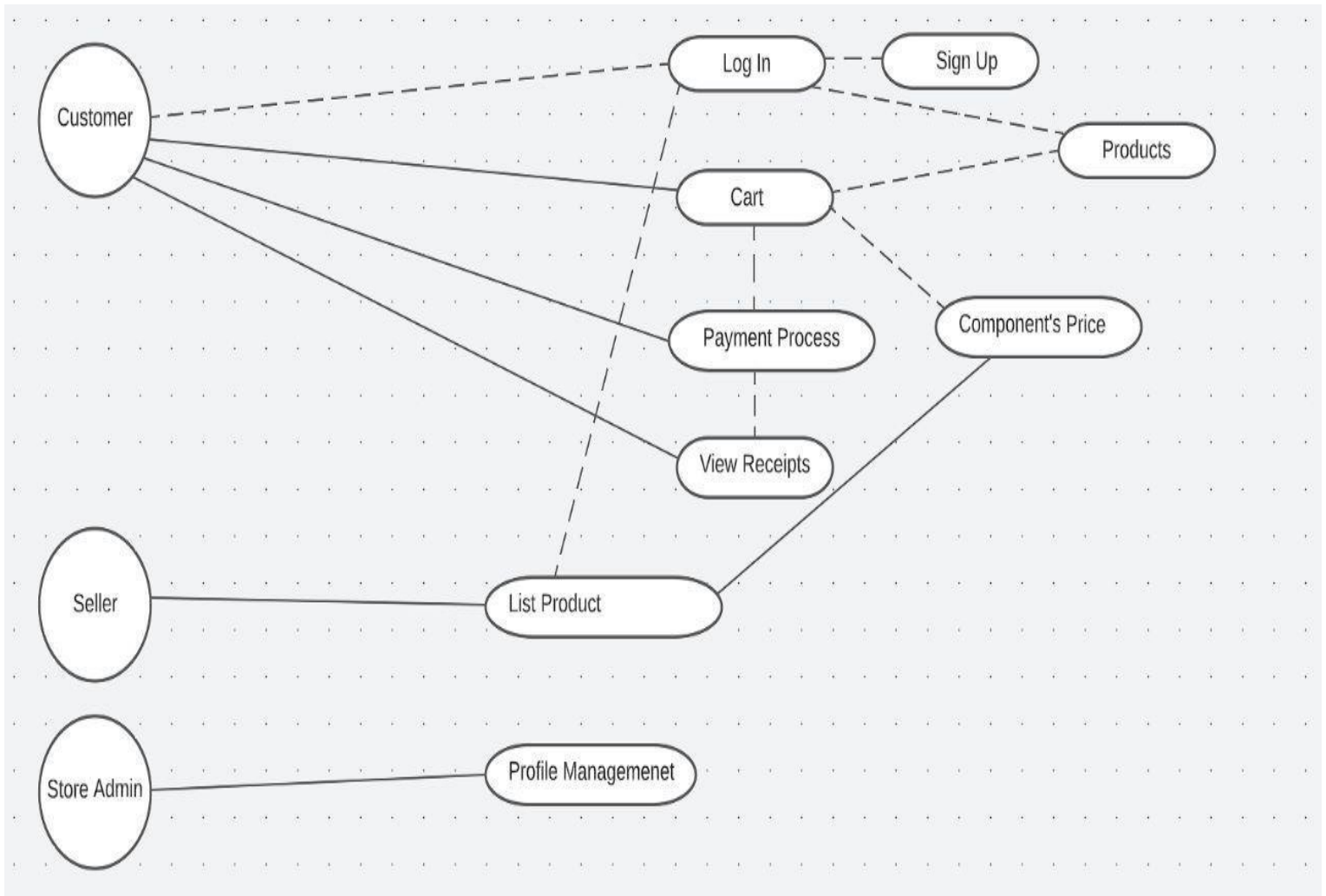
6.2 ERD:



6.3 Sequence Diagram



6.4 Use Case Diagram



Software Design Specification

UY-Supply Store

Version 1.1 approved

Prepared by

Umer Ali Usmani 1912327

Syed Yousuf Fatmi 1912325

25-5-2023

Software Design Specification

The Software Design Specification (SDS) sections provide you with guidelines related to the structure and the contents of SDS document. The Software Design Specification document includes at least these sections.

For the project, your team may have good reasons for wanting to deviate from this proposed outline. If a section is not applicable in your case, do not delete it; instead, give the topic heading and write "Not applicable".

You will note that there is some overlap in the content between different documents (i.e. the User Requirements Specification Document and the Software Design Specification Document.) This redundancy allows each document to stand on its own.

The Software Design Specification Outline

1. Introduction

1.1 Purpose of this document

The purpose of this SDS document is to provide a practical overview of our software product, its parameters and goals. This document describes the project's architecture and its components, hardware and software requirements.

1.2 Scope of the development project

To design a real time Web-Application platform for automated the buying and selling raw materials, machinery parts, bi-products with distributed system architecture. Following are the objectives.

- To ease their process of purchasing raw materials, machinery parts, bi-products of one firm which could be useful for other firms.
- Companies focus on their core business and do not have time to invest in selling unused machine parts, bi-products neither do they have a list of genuine buyers who want to buy them nor do they have time to call a list of companies to purchase them.

If the same company is looking for a specific spare part they currently do not have the right place to look for which will list the sellers of that particular item. Cost Saving is the key driver for Circular Economy in manufacturing industry

1.3 Definitions, acronyms, and abbreviations

Headings	Font Size: 16pts Font Style: New Times Roman
Sub Headings	Font Size: 14pts Font Style: New Times Roman
Regular Text	Font Size: 12pts Font Style: New Times Roman

1.4 References

<https://valid.x86.fr/bench/1>

<https://dl.acm.org/doi/abs/10.1145/3447548.3467201>

<https://www.uml-diagrams.org/index-examples.html>

https://www2.rivier.edu/faculty/vriabov/cs552_sw_design_specification_exam-mp1e.pdf

<https://www.lucidchart.com/blog/how-to-create-software-design-documents>

1.5 Overview of document

A short description of how the rest of the SDS is organized and what can be found in the rest of the document. This is not simply a table of contents.

Motivate and briefly describe the various parts!

System architecture and component descriptions can be found in this document.

There will be the Web-pageshots of the graphical user interface provided.

UML diagrams

Will be included in the section 5 of the document at the conclusion.

The following will be shown in these UML diagrams:

- Class Diagram
- Object Diagram
- Statechart Diagram
- Activity Diagram
- Sequence Diagram
- Collaboration Diagram
- Use Case Diagrams
- Component Diagram
- Deployment Diagram
- System Block Diagram

2. System architecture description

This section provides an overview and rationale for the program's data and architectural design decisions.

2.1. Section Overview

Security is not a concern for this system. As such, the system may not work correctly in cases when security is a concern. The system may not behave correctly when used with Internet browsers other than Firefox and MicrosoftEdge.

2.2. General Constraints

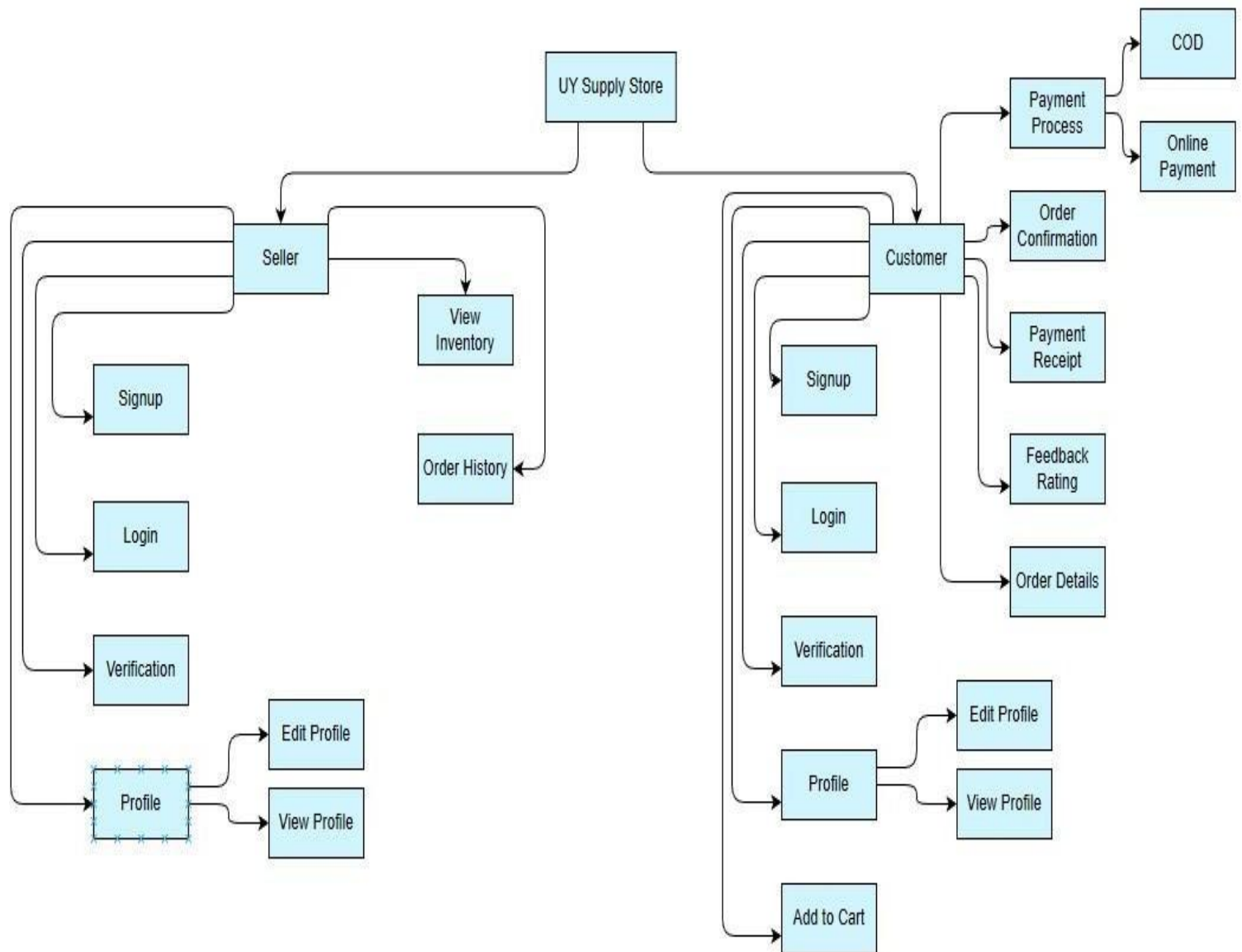
Security is not a concern for this system. The database may store passwords in plain text and there doesn't need to be a password recovery feature nor lockout after numerous invalid login attempts. As such, the system may not work correctly in cases when security is a concern. These cases include those listed above in addition to lack of an encrypted connection when sending credit card information and forcing users to use "strong" passwords. A strong password is a password that meets a number of conditions that are set in place so that user's passwords cannot be easily guessed by an attacker. Generally, these rules include ensuring that the password contains a sufficient number of characters and contains not only lowercase letters but also capitals, numbers, and in some cases, symbols. The system may not behave correctly when used with Internet browsers other than Firefox and Microsoft Edge

- Database: Firebase
- Environment: VS code, Firebase Console
- Platform: Html , css , JS , Bootstrap

2.3. Data Design

S. No	Table Name	Description
1.	User	User_Name Varchar (200) NOTNULL User_Number Number () User_Passcode Varchar (6) Email ID Varchar(50)
2.	UserPasscode	User_Passcode Varchar (6) Email ID Varchar (50)
3.	Orders	Order ID Number Order Date Date
4.	Products	Product ID Number Product Name Varchar (100) Product Description Varchar Product Price Number

2.4. Program Structure



2.5. Alternatives Considered

No alternative architectural design possibilities have been looked at. The UML approach is superior to other design models for architectural application design because it offers an open strategy.

3. Detailed description of components

Identification	Authentication
Type	Class/form
Purpose	The Authentication Component assures that only Merchant and Customers can access the system for the purpose of buying and selling
Function	What the component does, the transformation process, the specific inputs that are processed, the process that are used, the outputs that are produced, where the data items are stored, and which data items are modified.
Subordinates	This Component contains links to the following Web-Pages: <ul style="list-style-type: none"> ● Signup ● Login
Dependencies	The Login Web page moves the user to: <ul style="list-style-type: none"> ● Dashboard The Signup Webpage moves the user to: <ul style="list-style-type: none"> ● Login
Interfaces	The Web pages are designed to be easy to view for clear and better display.
Resources	A complete description of all resources (hardware or software) external to the component but required to carry out its functions. Some examples are CPU execution time, memory (primary, secondary, or archival), buffers, I/O channels, plotters, printers, math libraries, hardware registers, interrupt structures, and system services.
Processing	The only type of processing required is inputting information into the text boxes and navigating to other forms using buttons provided in the bottom half of the Web-page. Each button processes and takes the user to a different Web-page that corresponds to the button that the user selects.
Data	The data for the Sign up web-page is Full name, Password, Contact and Email entered by the user. The data for Login page is Email and Password.

Identification	Customer
Type	Class
Purpose	The Customer Component carries out the operations of browsing product, select particular build and placing order.
Function	What the component does, the transformation process, the specific inputs that are processed, the process that are used, the outputs that are produced, where the data items are stored, and which data items are modified.
Dependencies	The Customer component must have gone through the authentication component so that he/she can browse products.
Interfaces	The buttons are contained in the top part of the Web-page with a search bar on the top. The Web-page is designed to be easy to view for clear and better display.
Resources	Database Access Requirements: Access to the user information found in the appropriate database tables for authentication purpose. Access to Inventory: Access to inventory to be enabled by the Merchant so that customer to can view desired products.
Processing	The type of processing required is inputting information into the text boxes and navigating to other forms/web-page.
Data	The data required for browsing product is product name.

Identification	Orders
Type	Class
Purpose	The Orders Component works by processing the information of the items selected by the customer and moves to cart.
Function	What the component does, the transformation process, the specific inputs that are processed, the process that are used, the outputs that are produced, where the data items are stored, and which data items are modified.
Subordinates	This Component contains links to the following Web-page: <ul style="list-style-type: none"> • View Cart
Dependencies	The Orders component must have gone through the authentication component so that he/she can browse product and place orders.
Interfaces	The buttons are contained on the web browser. The web-pages contains information about the products and is designed for clear and better display.
Resources	The buttons are contained on the web browser and a search bar on the top. The web-page is designed to be easy to view for clear and better display.
Processing	The type of processing required is selection of products and navigating to other forms/Web-pages using buttons provided.
Data	The data required for Product information is its description which includes it name, price etc.

Identification	Cart
Type	Class
Purpose	The Cart Component functionality is to display information of the items selected by the customer and move checkout/payment process.
Function	What the component does, the transformation process, the specific inputs that are processed, the algorithms that are used, the outputs that are produced, where the data items are stored, and which data items are modified.
Subordinates	This Component contains links to the following Web-pages: <ul style="list-style-type: none"> • Checkout • Payment Process
Dependencies	The Cart component must have gone through the process of product/build selection so that the customer can move to checkout and pay for the order.
Interfaces	The buttons are contained on the web browser.. The Web-page contains information about the products and is designed for clear and better display.
Resources	Database Access Requirements: Access to the user information found in the appropriate database tables for authentication purpose. Access to Payment function: After moving from cart, then comes the ultimate part of payment process.
Processing	The type of processing required is selection of products and navigating to other forms/web-page using buttons provided on the browser. The component also requires processing of payment with the desired method that the customer selects.
Data	The data required for Product information is its description which includes its name, price etc. The data required for payment method is the credit card details in case of online payment.

4. User Interface Design

4.1. Section Overview

In this section, we will demonstrate the graphical user interface program. The graphical user interface followed some predefined rules, and many components were used.

4.2. Interface Design Rules

The rules defined for the user interface design behind **UY-Supply Stores** is as follows:

- User-Interactive Navigation
- Interface must provide maximum usability
- Minimal user inputs
- There must be significant user control.

4.3.GUI Components

- Navigation Bar
- Container
- Text Fields
- Image View
- Button
- Cart Logo
- Favorite's SVG Logo

5.0 Reuse and relationships to other products

The decision and implementation of the reusable components have not been made yet because the application is still in its early stages of development. The use of a search bar is one element that will be put into place. This will let customers find specific categories and then use that search function to find specific products.

6.0 Design decisions and trade offs

The design decision to separate inventory management from the main database has ensured encapsulation in terms of adding or altering data entities. The main item inventory of UY-Supply store is secured on the Firebase platform while the web server provides an individual space for vendors to manage their stock. In simple words, there would be no need to access the required data by using the same path by reference.

An additional plus point is the use of different colored buttons that somehow provide the user with a descriptive view of different access points which ultimately makes the app easy to navigate and use.

7.0 Pseudocode for components

Login

INPUT username, Password

IF username and password == DB Record

IF isAdmin THEN

Redirect to Admin Dashboard

IF isManager THEN

Redirect to Manager Dashboard

ELSE Redirect to Login Page

ENDIF

ENDIF

ENDIF

Forgot Password ():

INPUT Email Address

IF Email exists in DB THEN

Send Username & Random Password on that email

Redirect to login page

ELSE

SHOW MESSAGE "Record Does Not Exists"

Redirect to forgot page

ENDIF**Change Password ():**

INPUT Old Password, New Password, Confirm Password

IF Old Password != DB Password THEN

SHOW MESSAGE "Old password does not match"

IF New Password != Confirm Password THEN

SHOW MESSAGE "New Password Does not match with
Confirm password"

ENDIF

ELSE

SHOW MESSAGE "Password successfully changed"

ENDIF

Add Product ():

INPUT product Name, Description, price, image, shopName

IF form Validation == True THEN

SHOW MESSAGE "Record Successfully Added"

ELSE

SHOW MESSAGE "Incorrect input"

ENDIF

View Product ():

IF userSession == "Manager" THEN

```

Select All products Connected to that manager
OUTPUT show Products
ELSEIF userSession == "Admin" THEN
OUTPUT Show All Products
Else
Redirect To Login Page
ENDIF

```

Edit Product ():

```

IF userSession == "Manager" THEN
VARIABLE User ID
INPUT Product ID
CHECK in DB
IF managerID exists THEN
IF Product exists in manager's shop THEN
FETCH information
Redirect
OUTPUT Show Product
ELSE
SHOW MESSAGE "Record does not exists"
Redirect to view page
ENDIF
ELSEIF userSession == "Admin" THEN
IF Record exists in DB THEN
FETCH information of particular record
Redirect to form
OUTPUT Show Data
ELSE
SHOW MESSAGE "Record does not exists"
Redirect to view page
ENDIF
ENDIF

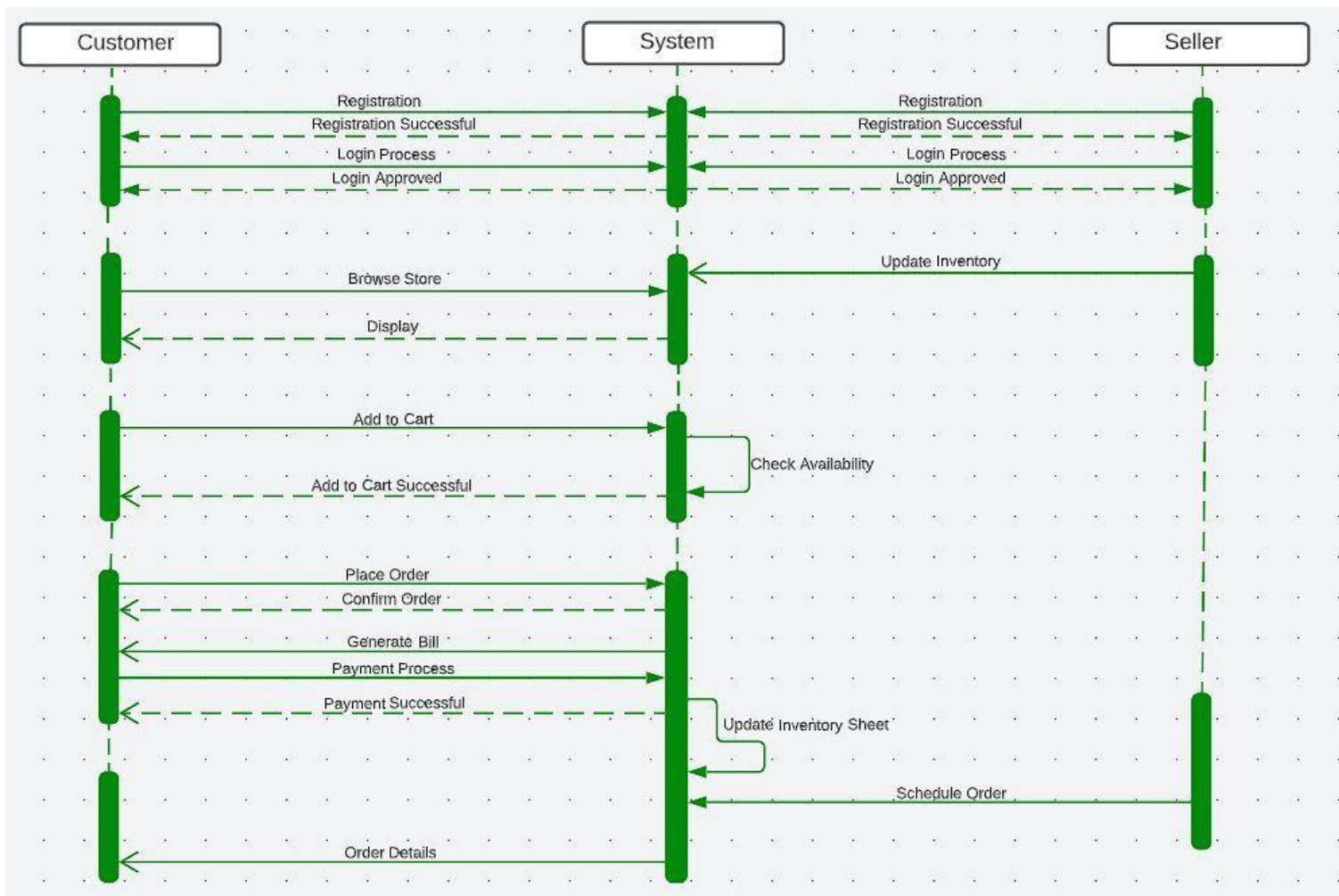
```

8.0 Appendices

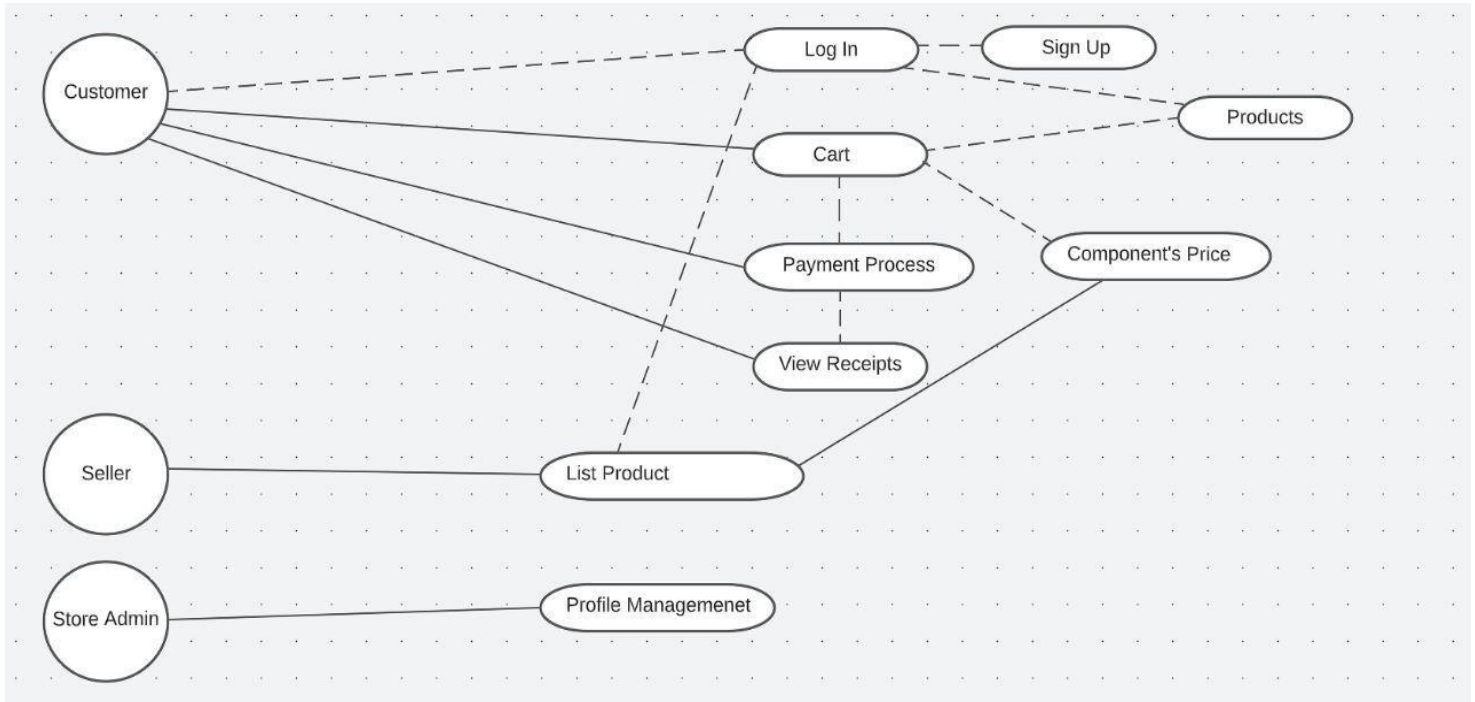
The following list presents the diagrams that should be included at appropriate places

Class Diagram	Describes the structure of a system
Object Diagram	Expresses possible object combinations of a specific Class Diagram
Statechart Diagram	Expresses possible states of a class (or a system)
Activity Diagram	Describes activities and actions taking place in a system
Sequence Diagram	Shows one or several sequences of messages sent among a set of objects
Collaboration Diagram	Describes a complete collaboration among a set of objects
Use-case Diagrams	Illustrates the relationships between use cases
Component Diagram	A special case of a Class Diagram used to describe components within a software system
Deployment Diagram	A special case of a Class Diagram used to describe hardware within the overall system architecture
System Block diagram	A diagram showing the major components of the system with its interconnections and external interfaces

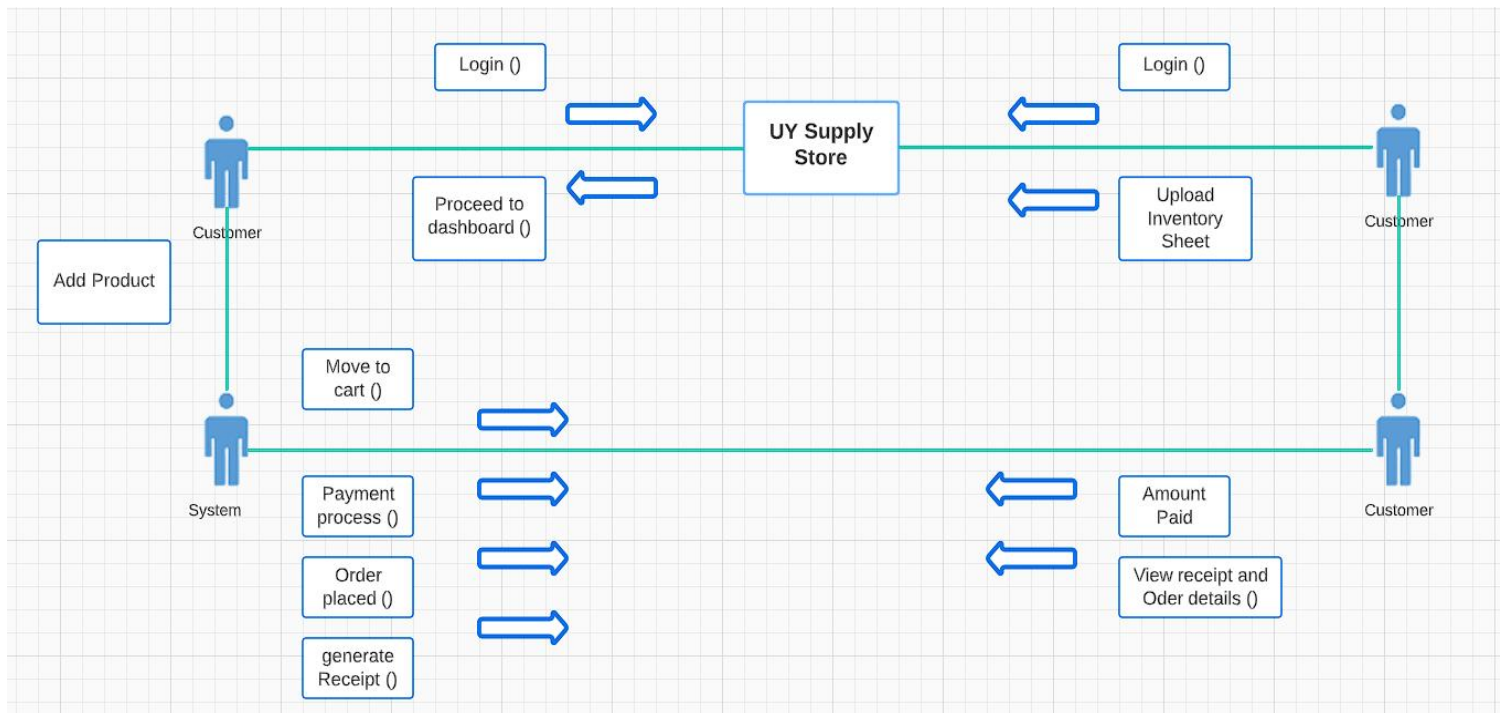
Sequence Diagram



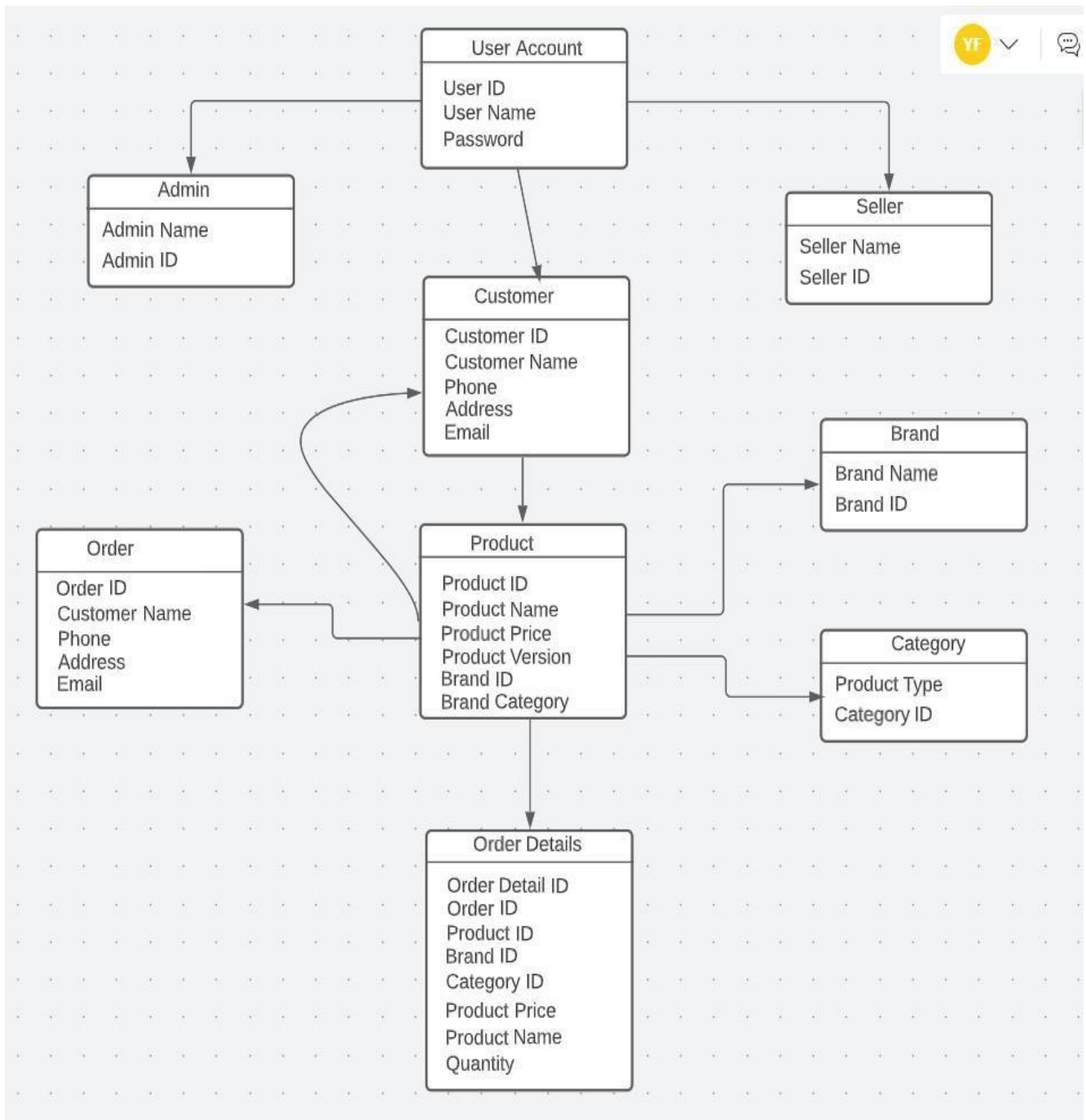
USE-CASE Diagram



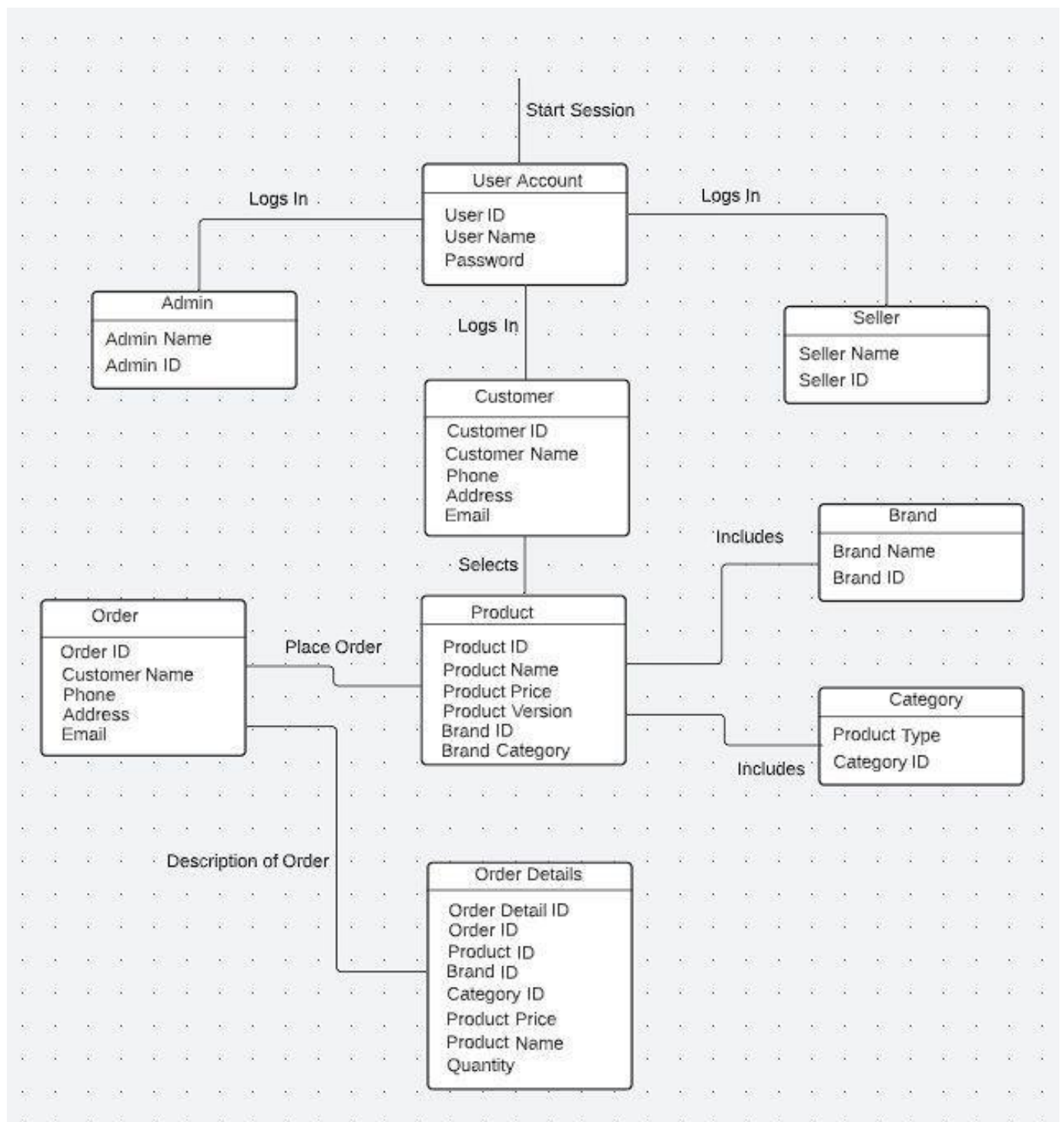
Collaboration Diagram



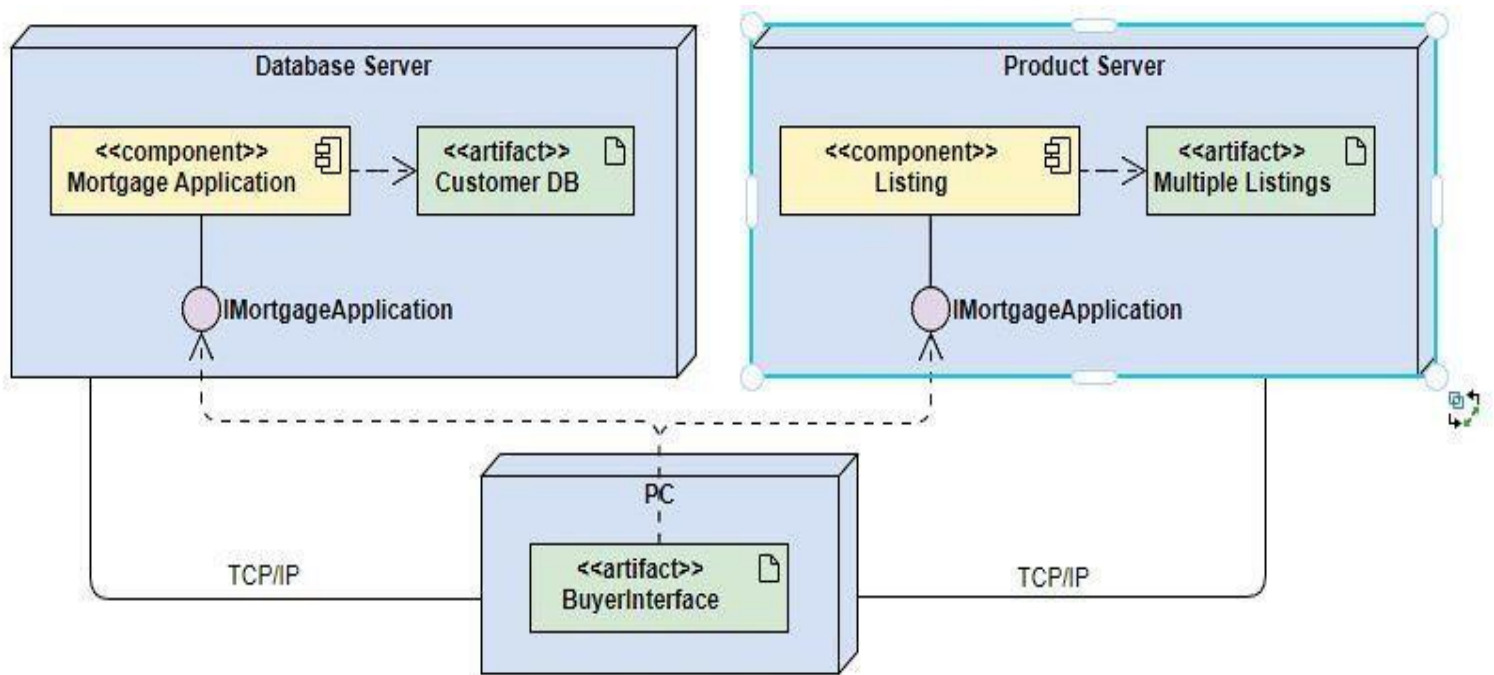
Class Diagram



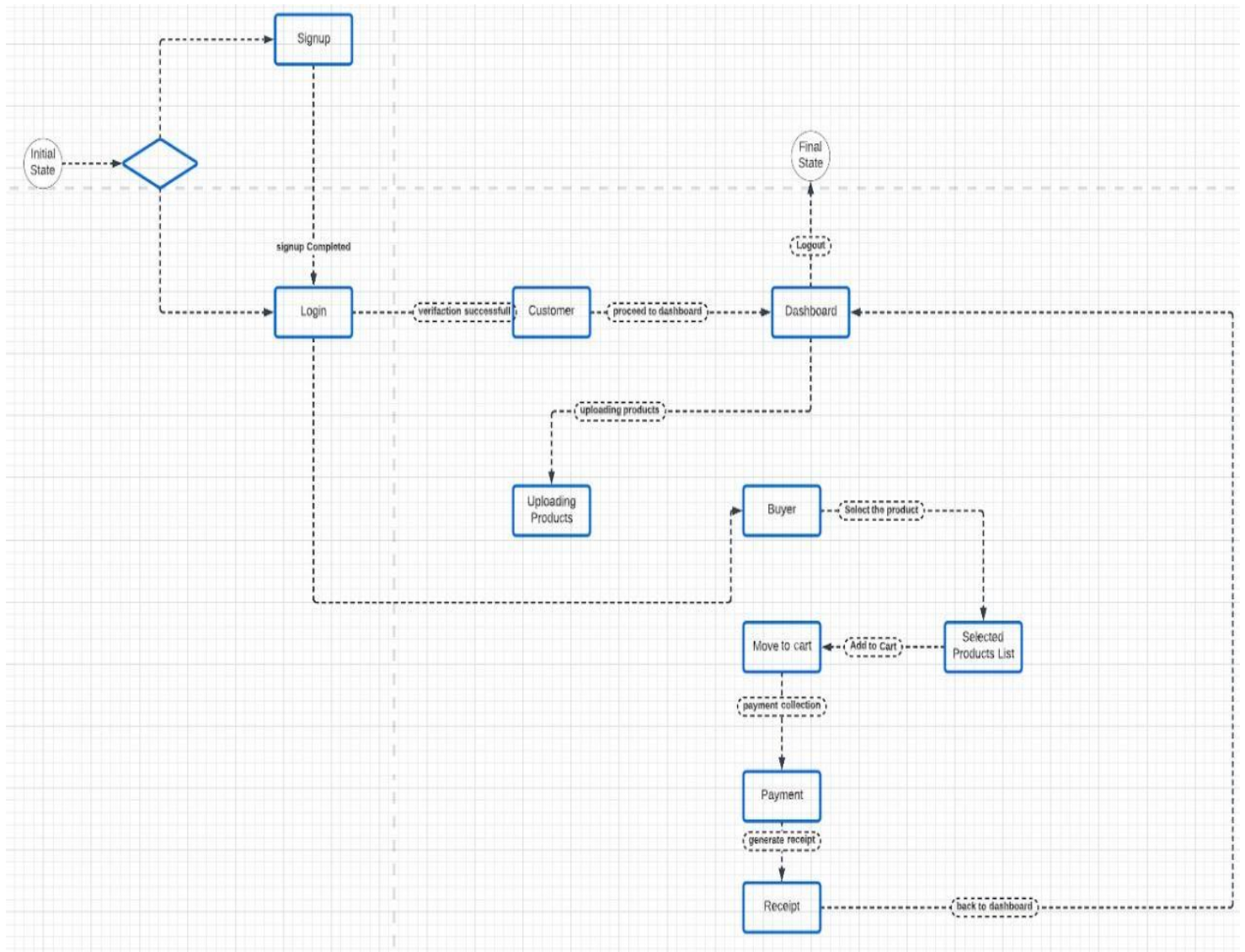
Object Diagram



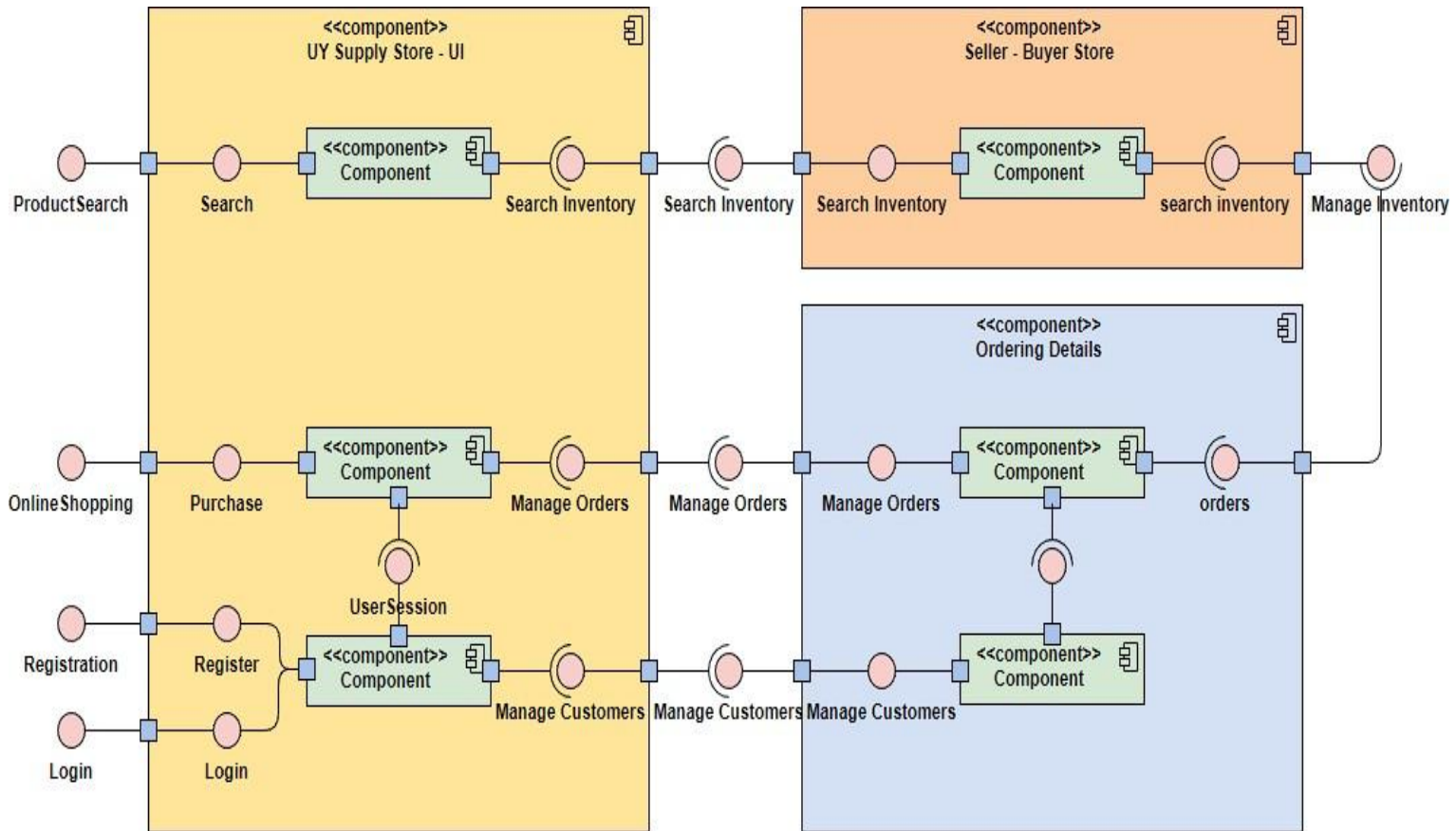
Deployment Diagram



State-Chart Diagram

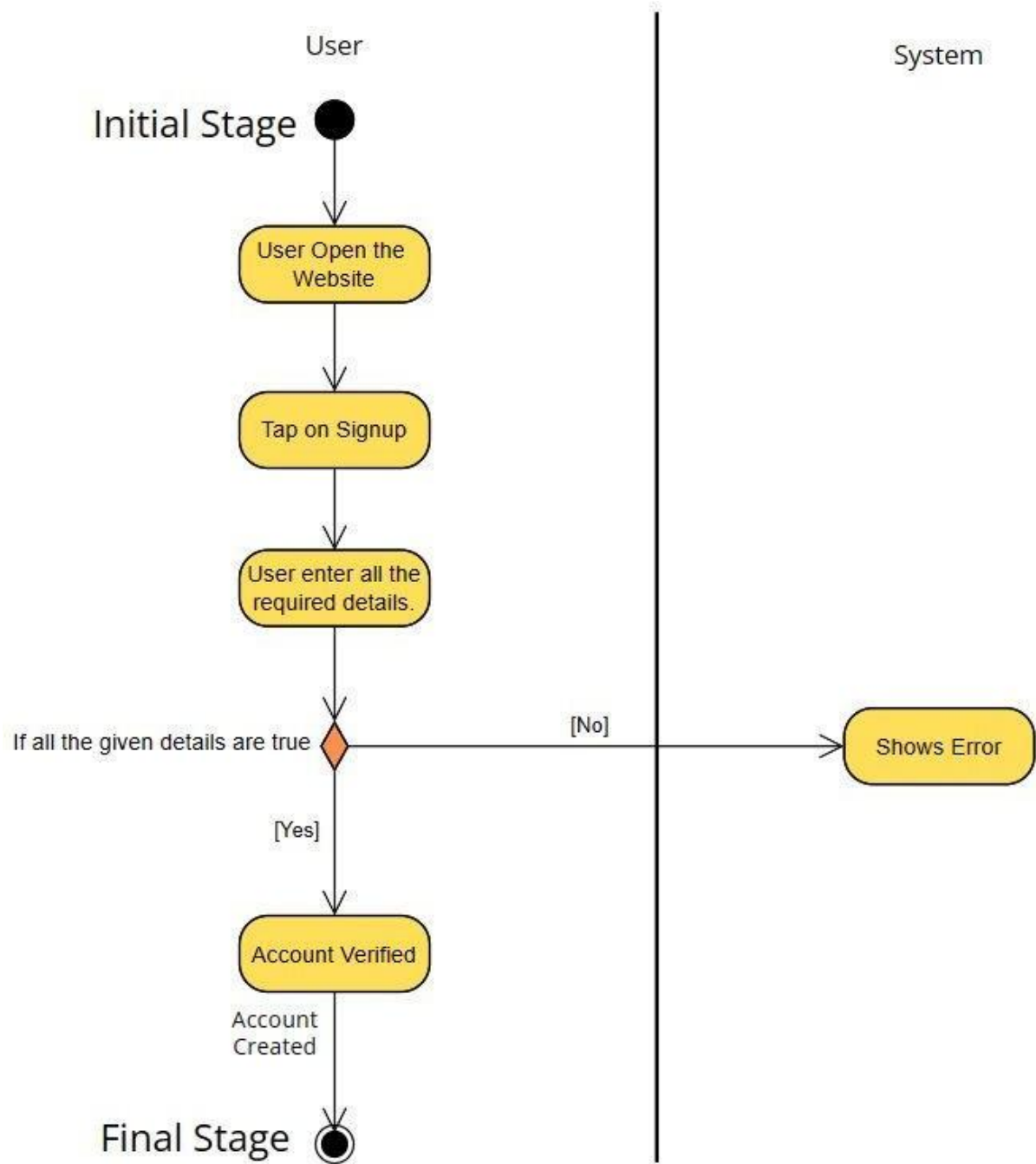


Component Diagram

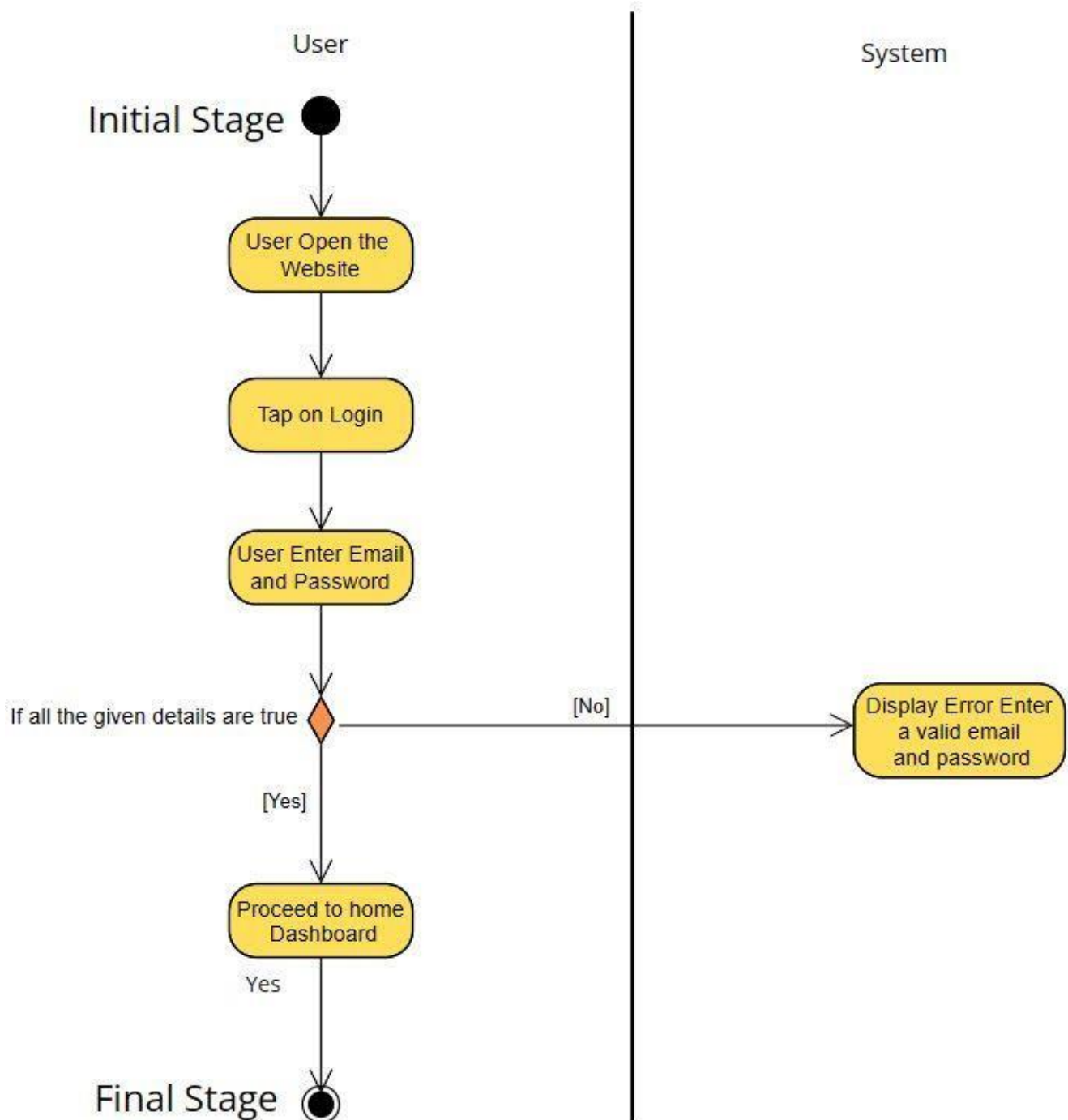


Activity Diagram:

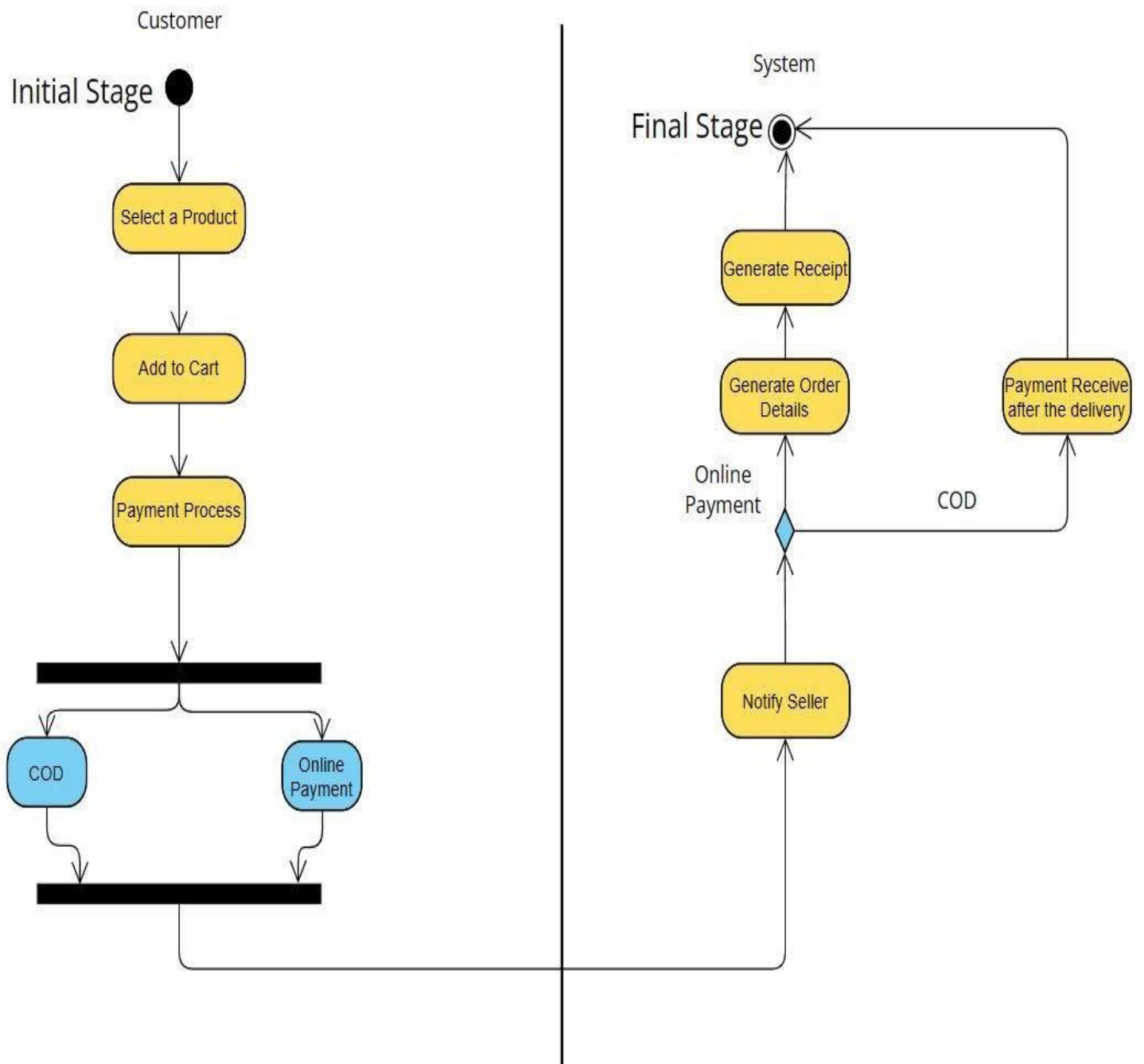
SignUp



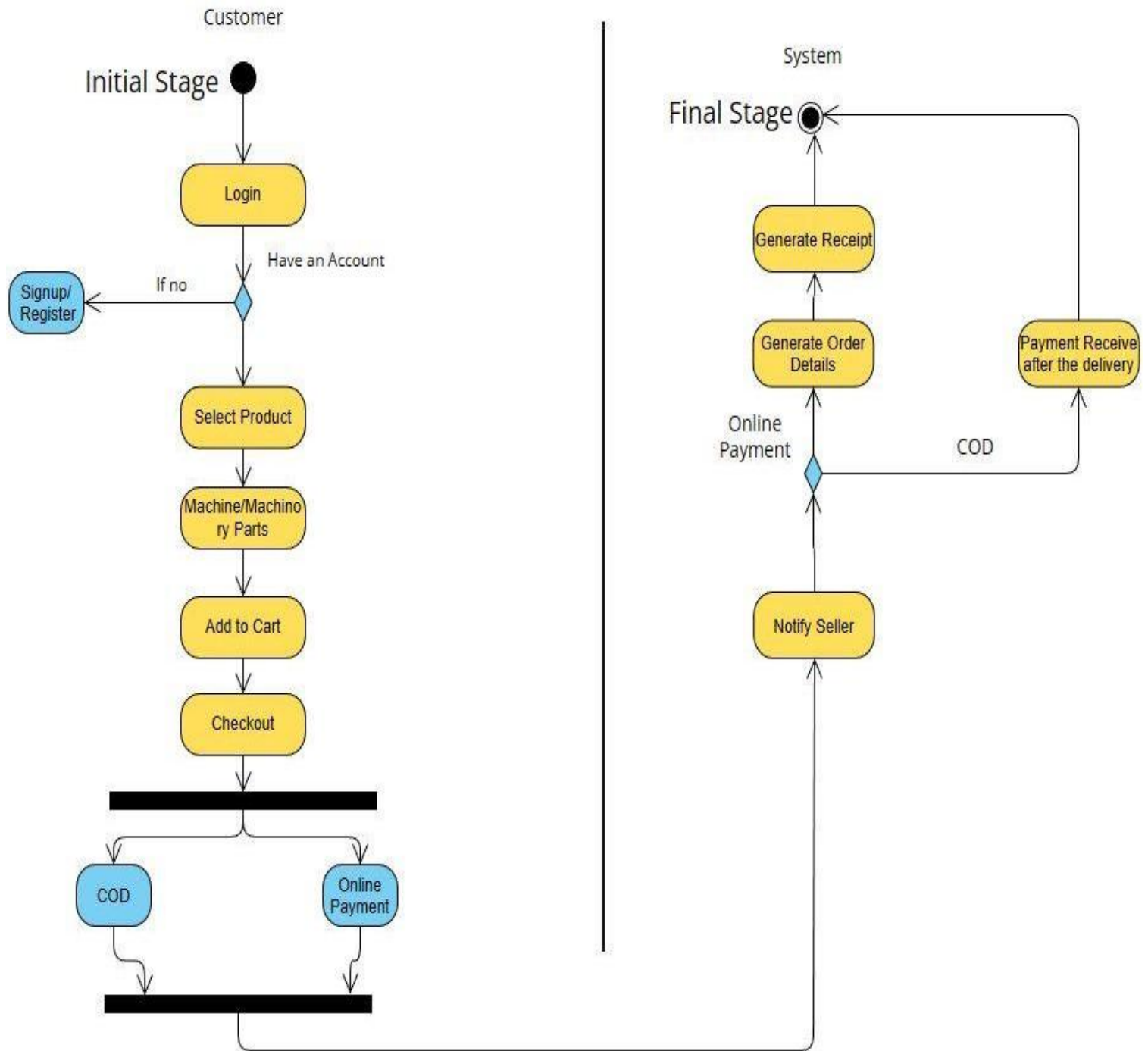
Login



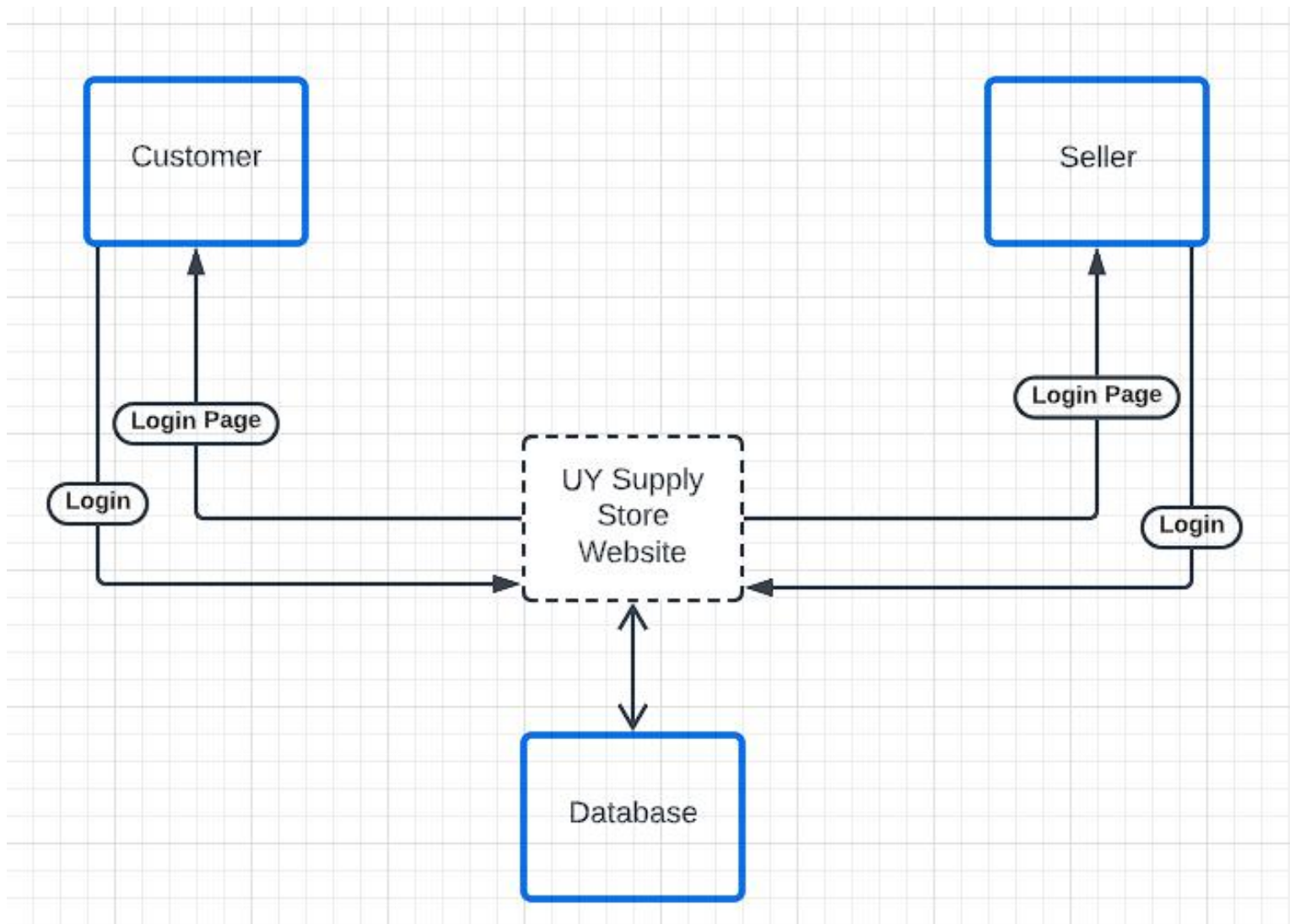
Payment Method



Customer Roadmap



System Block Diagram



TESTING DOCUMENTATION

1. Introduction:

To design a real time Web-Application platform for automated the buying and selling raw materials, machinery parts, bi-products with distributed system architecture. Following are the objectives.

2. Test Objectives:

The primary objectives of the testing activities are as follows:

- User registration and login
- Product browsing and search
- Shopping cart functionality
- Checkout and payment process
- Contact Us Form
- Stripe Payment Gateway
- Testimonials

3. Project Scope:

To ease their process of purchasing raw materials, machinery parts, bi-products of one firm which could be useful for other firms.

Companies focus on their core business and do not have time to invest in selling unused machine

parts, bi-products neither do they have a list of genuine buyers who want to buy them nor do they have time to call a list of companies to purchase them.

If the same company is looking for a specific spare part they currently do not have the right place to look for which will list the sellers of that particular item. Cost Saving is the key driver for Circular Economy in manufacturing industry

Test Cases

Test Case ID	TR-001	Test Case Description	Test the Login Functionality in UY supply							
Created By	Yousuf	Reviewed By	Yousuf			Version	1.1			
QA Tester's Log		None								
Tester's Name	Yousuf	Date Tested	18-11-2022			Test Case (Pass/Fail/Not	FAIL			
S #	Prerequisites:				S #	Test Data				
1	Access to Chrome Browser				1	Userid =				
2					2	Pass = 123456				
3					3					
4					4					
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #	Step Details	Expected Results	Actual Results			Pass / Fail / Not executed / Suspended				
1	Navigate to http://localhost:3000	Site should open	As Expected			Pass				
2	Enter Userid	Credential can be entered	console error please enter username			FAIL				
3	Enter password	Password Entered	As Expected			Pass				
4										

Test Case ID	TR-002	Test Case Description	Test the Login Functionality in UY supply					
Created By	Yousuf	Reviewed By	Yousuf	Version		1.2		
QA Tester's Log	None							
Tester's Name	Yousuf	Date Tested	18-11-2022	Test Case (Pass/Fail/Not		FAIL		
S #	Prerequisites:			S #	Test Data			
1	Access to Chrome Browser			1	Userid = umerali69			
2				2	Pass = 1234			
3				3				
4				4				
Test Scenario	Verify on entering valid userid and password, the customer can login							
Step #	Step Details	Expected Results	Actual Results		Pass / Fail / Not executed / Suspended			
1	Navigate to	Site should open	As Expected		Pass			
2	Enter Userid	Credential can be entered	As Expected		Pass			
3	Enter password	Password Entered	Password should be minimum 6		FAIL			

Test Case ID	TR-003	Test Case Description	Test the Login Functionality in UY supply					
Created By	Yousuf	Reviewed By	Yousuf	Version		1.3		
QA Tester's Log	none							
Tester's Name	Yousuf	Date Tested	18-11-2022	Test Case (Pass/Fail/Not		PASS		
S #	Prerequisites:			S #	Test Data			
1	Access to Chrome Browser			1	Userid = umerali69			
2				2	Pass = 123456			
3				3				
4				4				
Test Scenario	Verify on entering valid userid and password, the customer can login							
Step #	Step Details	Expected Results	Actual Results		Pass / Fail / Not executed / Suspended			
1	Navigate to	Site should open	As Expected		Pass			
2	Enter Userid	Credential can be entered	As Expected		Pass			
3	Enter password	Password Entered	As Expected		Pass			

Test Case ID	TR-004	Test Case Description	Test the Login Functionality in UY supply				
Created By	Umer	Reviewed By	Umer	Version	2.1		
QA Tester's Log	none						
Tester's Name	Umer	Date Tested	18-11-2022	Test Case (Pass/Fail/Not	FAIL		
S #	Prerequisites:		S #	Test Data			
1	Access to Chrome Browser		1	Full Name = Umer Ali			
2			2	Email Address = umerali69@gmail.com			
3			3	Contact No = 0301-1234567			
4			4	Password = 12345			
Test Scenario	Verify on entering valid userid and password, the customer can login						
Step #	Step Details	Expected Results	Actual Results		Pass / Fail / Not executed / Suspended		
1	Navigate to	Site should open	As Expected		Pass		
2	Full Name	Enter Correct Name	As Expected		Pass		
3	Email Address	Enter Correct Email	As Expected		Pass		
4	Contact No	Enter Correct Contact No	As Expected		Pass		
5	Password	Incorrect Password	Console error (password length		Fail		

Test Case ID	TR-005	Test Case Description	Test the Login Functionality in UY supply			
Created By	Umer	Reviewed By	Umer	Version	2.2	
QA Tester's Log	none					
Tester's Name	Umer	Date Tested	18-11-2022	Test Case (Pass/Fail/Not	FAIL	
S #	Prerequisites:		S #	Test Data		
1	Access to Chrome Browser		1	Full Name = Umer Ali		
2			2	Email Address = umerali69@gmail.com		
3			3	Contact No = 0301-123456		
4			4	Password = 123456		
Test Scenario	Verify on entering valid userid and password, the customer can login					
Step #	Step Details	Expected Results	Actual Results		Pass / Fail / Not executed / Suspended	
1	Navigate to	Site should open	As Expected		Pass	
2	Full Name	Enter Correct Name	As Expected		Pass	
3	Email Address	Enter Correct Email	As Expected		Pass	
4	Contact No	Incorrect Contact	Console error (contact length		Fail	
5	Password	Enter Correct Password	As Expected		Pass	

Test Case ID	TR-006	Test Case Description	Test the Login Functionality in UY supply			
Created By	Umer	Reviewed By	Umer	Version	2.3	
QA Tester's Log	none					
Tester's Name	Umer	Date Tested	18-11-2022	Test Case (Pass/Fail/Not	FAIL	
S #	Prerequisites:		S #	Test Data		
1	Access to Chrome Browser		1	Full Name = Umer Ali		
2			2	Email Address = umerali69gmail.com		
3			3	Contact No = 0301-1234567		
4			4	Password = 123456		
Test Scenario	Verify on entering valid userid and password, the customer can login					
Step #	Step Details	Expected Results	Actual Results		Pass / Fail / Not executed / Suspended	
1	Navigate to	Site should open	As Expected		Pass	
2	Full Name	Enter Correct Name	As Expected		Pass	
3	Email Address	Incorrect Email	Console error		Fail	
4	Contact No	Enter Correct Contact	As Expected		Pass	
5	Password	Enter Correct Password	As Expected		Pass	

Test Case ID	TR-007	Test Case Description	Test the Login Functionality in UY supply			
Created By	Umer	Reviewed By	Umer	Version	2.4	
QA Tester's Log	none					
Tester's Name	Umer	Date Tested	18-11-2022	Test Case (Pass/Fail/Not	PASS	
S #	Prerequisites:		S #	Test Data		
1	Access to Chrome Browser		1	Full Name = Umer Ali		
2			2	Email Address = umerali69@gmail.com		
3			3	Contact No = 0301-1234567		
4			4	Password = 123456		
Test Scenario	Verify on entering valid userid and password, the customer can login					
Step #	Step Details	Expected Results	Actual Results		Pass / Fail / Not executed / Suspended	
1	Navigate to	Site should open	As Expected		Pass	
2	Full Name	Enter Correct Name	As Expected		Pass	
3	Email Address	Enter Correct Email	As Expected		Pass	
4	Contact No	Enter Correct Contact	As Expected		Pass	
5	Password	Enter Correct Password	As Expected		Pass	

A	B	C	D	E	F	G	H	I	J	K	
Test Case ID		TR-008	Test Case Description		Test the Add to Cart Functionality in UY supply						
Created By		Umer	Reviewed By		Umer		Version		3.1		
QA Tester's Log		none									
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL		
S #	Prerequisites:				S #	Test Data					
1	Access to Chrome Browser				1	Product Name =					
2					2	Product Description = This Gate Is very Useful					
3					3	Product Price = 5436					
4					4	Product Image = Umer.png					
Test Scenario		Verify on entering valid userid and password, the customer can login									
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended			
1	Navigate to		Site should open		As Expected			Pass			
2	Product Name		Empty		As Expected			Fail			
3	Product Description		Enter Correct Description		As Expected			Pass			
4	Product Price		Enter Price		As Expected			Pass			
5	Product Image		Upload Image		As Expected			Pass			

A	B	C	D	E	F	G	H	I	J	K	
Test Case ID		TR-009	Test Case Description		Test the Add to Cart Functionality in UY supply						
Created By		Umer	Reviewed By		Umer		Version		3.2		
QA Tester's Log		none									
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL		
S #	Prerequisites:				S #	Test Data					
1	Access to Chrome Browser				1	Product Name = Gate					
2					2	Product Description = This Gate Is very Useful					
3					3	Product Price = 54365745					
4					4	Product Image = Umer.png					
Test Scenario		Verify on entering valid userid and password, the customer can login									
Step #	Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended				
1	Navigate to		Site should open		As Expected		Pass				
2	Product Name		Enter Product Name		As Expected		Pass				
3	Product Description		Enter Correct Description		As Expected		Pass				
4	Product Price		Enter Price More than Six		As Expected		Fail				
5	Product Image		Upload Image		As Expected		Pass				

A	B	C	D	E	F	G	H	I	J	K	
Test Case ID		TR-0010	Test Case Description		Test the Add to Cart Functionality in UY supply						
Created By		Umer	Reviewed By		Umer		Version		3.3		
QA Tester's Log		none									
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL		
S #		Prerequisites:			S #		Test Data				
1		Access to Chrome Browser			1		Product Name = Gate				
2					2		Product Description = This Gate Is very Useful				
3					3		Product Price = 54365				
4					4		Product Image = Umer.HTML				
Test Scenario		Verify on entering valid userid and password, the customer can login									
Step #		Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended		
1		Navigate to		Site should open		As Expected			Pass		
2		Product Name		Enter Product Name		As Expected			Pass		
3		Product Description		Enter Correct Description		As Expected			Pass		
4		Product Price		Enter Price		As Expected			Pass		
5		Product Image		Upload Image in HTML Format		As Expected			Fail		

A	B	C	D	E	F	G	H	I	J	K	
Test Case ID		TR-0011	Test Case Description		Test the Add to Cart Functionality in UY supply						
Created By		Umer	Reviewed By		Umer		Version		3.4		
QA Tester's Log		none									
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL		
S #	Prerequisites:				S #	Test Data					
1	Access to Chrome Browser				1	Product Name = Gate					
2					2	Product Description = This Gate Is very Useful					
3					3	Product Price = 54					
4					4	Product Image = Umer.png					
Test Scenario		Verify on entering valid userid and password, the customer can login									
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended			
1	Navigate to		Site should open		As Expected			Pass			
2	Product Name		Enter Product Name		As Expected			Pass			
3	Product Description		Empty		As Expected			Fail			
4	Product Price		Enter Price		As Expected			Pass			
5	Product Image		Upload Image		As Expected			Pass			

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0012	Test Case Description		Test the Add to Cart Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		3.5	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		PASS	
S #	Prerequisites:				S #	Test Data				
1	Access to Chrome Browser				1	Product Name = Gate				
2					2	Product Description = This Gate Is very Useful				
3					3	Product Price = 54				
4					4	Product Image = Umer.png				
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #	Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended			
1	Navigate to		Site should open		As Expected		Pass			
2	Product Name		Enter Product Name		As Expected		Pass			
3	Product Description		Enter Product Description		As Expected		Pass			
4	Product Price		Enter Price		As Expected		Pass			
5	Product Image		Upload Image		As Expected		Pass			

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0013	Test Case Description		Test the Testimonials Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		4.1	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL	
S #		Prerequisites:			S #		Test Data			
1		Access to Chrome Browser			1		Your Full Name =			
2					2		Note = This is the Amazing platform..			
3					3		Upload Image = Umer.png			
4					4		Rating = 4 Stars			
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #		Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended		
1		Navigate to		Site should open		As Expected		Pass		
2		Your Full Name		Empty		As Expected		Fail		
3		Note		Enter Product Description		As Expected		Pass		
4		Upload Image		Upload Image		As Expected		Pass		
5		Rating		rate		As Expected		Pass		

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0014	Test Case Description		Test the Testimonials Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		4.2	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL	
S #	Prerequisites:				S #	Test Data				
1	Access to Chrome Browser				1	Your Full Name = Umer Ali Usmani				
2					2	Note = This is the Amazing platform..				
3					3	Upload Image = Umer.HTML				
4					4	Rating = 4 Stars				
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #	Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended			
1	Navigate to		Site should open		As Expected		Pass			
2	Your Full Name		Enter Full Name		As Expected		Pass			
3	Note		Enter Product Description		As Expected		Pass			
4	Upload Image		Invalid Image Format		As Expected		Fail			
5	Rating		rate		As Expected		Pass			

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0014	Test Case Description		Test the Testimonials Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		4.3	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		PASS	
S #	Prerequisites:			S #	Test Data					
1	Access to Chrome Browser			1	Your Full Name = Umer Ali Usmani					
2				2	Note = This is the Amazing platform..					
3				3	Upload Image = Umer.png					
4				4	Rating = 4 Stars					
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended		
1	Navigate to		Site should open		As Expected			Pass		
2	Your Full Name		Enter Full Name		As Expected			Pass		
3	Note		Enter Product Description		As Expected			Pass		
4	Upload Image		Upload Image		As Expected			Pass		
5	Rating		rate		As Expected			Pass		

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0014	Test Case Description		Test the Review Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		5.1	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL	
S #Prerequisites:					S #Test Data					
1Access to Chrome Browser					1Your Full Name = Umer Ali Usmani					
2					2Note = This is the Amazing product					
3					3Upload Image = Umer.HTML					
4										
Test ScenarioVerify on entering valid userid and password, the customer can login										
Step #		Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended		
1		Navigate to		Site should open		As Expected		Pass		
2		Your Full Name		Enter Full Name		As Expected		Pass		
3		Note		Enter any description		As Expected		Pass		
4		Upload Image		invalid format		As Expected		Fail		

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0014	Test Case Description		Test the Review Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		5.2	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL	
S #	Prerequisites:				S #	Test Data				
1	Access to Chrome Browser				1	Your Full Name = Umer Ali Usmani				
2					2	Note = This is the Amazing product				
3					3	Upload Image = Umer.png				
4										
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended		
1	Navigate to		Site should open		As Expected			Pass		
2	Your Full Name		Enter Full Name		As Expected			Pass		
3	Note		Enter any description		As Expected			Pass		
4	Upload Image		invalid format		As Expected			Pass		

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0014	Test Case Description		Test the Edit Profile Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		6.1	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL	
S #	Prerequisites:				S #	Test Data				
1	Access to Chrome Browser				1	Email = umeraliusmani1@gmail.com				
2					2	Password = 12345678 (Correct = 123456789)				
3					3	New Password = 123456789				
4										
Test Scenario: Verify on entering valid userid and password, the customer can login										
Step #	Step Details		Expected Results		Actual Results		Pass / Fail / Not executed / Suspended			
1	Navigate to		Site should open		As Expected		Pass			
2	Email		Enter Correct Email		As Expected		Pass			
3	Password		Incorrect Password		As Expected		Fail			
4	New Password		password match previous password		As Expected		Fail			

A	B	C	D	E	F	G	H	I	J	K		
Test Case ID		TR-0014	Test Case Description		Test the Edit Profile Functionality in UY supply							
Created By		Umer	Reviewed By		Umer		Version		6.2			
QA Tester's Log		none										
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL			
S #	Prerequisites:			S #							Test Data	
1	Access to Chrome Browser			1							Email = umeraliusmani1@gmail.com	
2				2							Password = 123456789 (Correct = 123456789)	
3				3							New Password = 123456	
4												
Test Scenario											Verify on entering valid userid and password, the customer can login	
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended				
1	Navigate to		Site should open		As Expected			Pass				
2	Email		Enter Correct Email		As Expected			Pass				
3	Password		Password		As Expected			Pass				
4	New Password		Password Updated		As Expected			Pass				

A	B	C	D	E	F	G	H	I	J	K		
Test Case ID		TR-0014		Test Case Description		Test the Edit Product Fields Functionality in UY supply						
Created By		Umer		Reviewed By		Umer		Version		7.1		
QA Tester's Log		none										
Tester's Name		Umer		Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL		
S #	Prerequisites:			S #							Test Data	
1	Access to Chrome Browser			1							Name = Extension Board	
2				2							Description = about product	
3												
4												
Test Scenario		Verify on entering valid userid and password, the customer can login										
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended				
1	Navigate to		Site should open		As Expected			Pass				
2	Product Name		Correct		As Expected			Pass				
3	Description		Correct		As Expected			Pass				
4	Image							Fail				
5	Price							Fail				

A	B	C	D	E	F	G	H	I	J	K
Test Case ID		TR-0014	Test Case Description		Test the Edit Product Fields Functionality in UY supply					
Created By		Umer	Reviewed By		Umer		Version		7.1	
QA Tester's Log		none								
Tester's Name		Umer	Date Tested		20-12-2022		Test Case (Pass/Fail/Not		FAIL	
S #	Prerequisites:				S #	Test Data				
1	Access to Chrome Browser				1	Name = Extension Board				
2					2	Description = about product				
3					3	Price = 34\$				
4					4	Image = product-1.png				
Test Scenario		Verify on entering valid userid and password, the customer can login								
Step #	Step Details		Expected Results		Actual Results			Pass / Fail / Not executed / Suspended		
1	Navigate to		Site should open		As Expected			Pass		
2	Product Name		Correct		As Expected			Pass		
3	Description		Correct		As Expected			Pass		
4	Image		Valid Format		As Expected			Pass		
5	Price		Correct		As Expected			Pass		

User Manual

UY-Supply Store

Version 1.1 approved

Prepared by

Umer Ali Usmani 1912327

Syed Yousuf Fatmi 1912325

29-6-2023

General Information

1. Project Scope

Through our system unused or spare machinery, parts, raw material, bi-products, material wastage could be traded and circulated in the system so that resources can be efficiently utilized. Being the system online it is hassle free to dwell into the market and negotiate with the dealers in scrap market with the doubt of purchasing the faulty parts. This will reduce time from couple of days to couple of minutes. Also, the inspection services will benefit buyers to clear all the doubt about the article to be purchased.

For instance, if a non-commercial user owns a 3D printer and it has suddenly stopped working he can look for the parts that need to be replaced. Normally these parts are not available in the market easily or could take a couple of months to import and cost the freight. Instead of going through time taking and hectic channels. The user can simply login to our system and look for parts available from a company or an individual.

2. Milestones

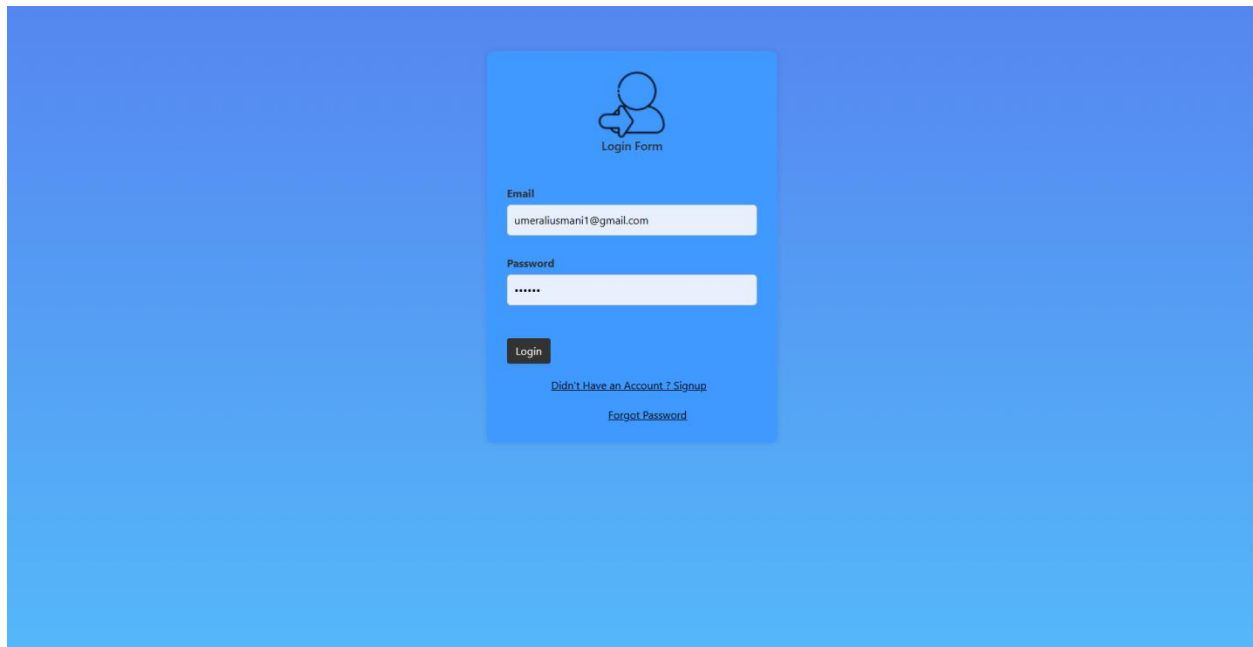
- Planning
- Project Requirements
- Existing system integration
- Designing User Interface (UI)
- Interactive sections/ appeal the clients
- Creating Code Design
- Development Environment
- Code Generation
- SQA Testing
- Bug Fixes (If any)
- Results Report

3. Functionalities:

- Business logo
- User-friendly navigation
- Wishlist
- Customer login

- Shopping cart
- Featured products or Best selling products or New arrivals
- Product filtering and sorting
- Good quality of images with zoom in functionality
- Add to cart button
- Product description
- Consumer reviews on products
- Related products
- Responsive design

4. UI Screenshots:

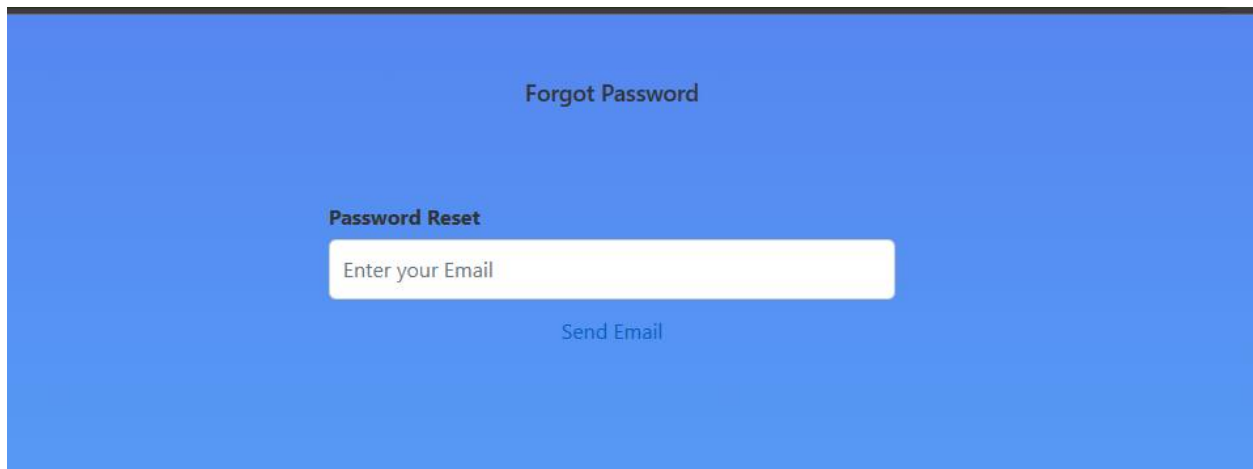


User has to login first.



A registration form titled "Registration Form" with a user icon. It contains five input fields: "Name" (placeholder: "Enter Your Name"), "Contact No" (placeholder: "Enter Your Contact No"), "Email" (placeholder: "Enter your email"), "Password" (placeholder: "Enter your Password"), and "Confirm Password" (placeholder: "Confirm Password"). A "Signup" button is at the bottom.

Before login user has to register yourself and fill all the required fields.



A "Forgot Password" form titled "Forgot Password" with a "Password Reset" section. It contains one input field: "Enter your Email". A "Send Email" button is at the bottom.

If user forgot their password they can change their password aswell.

Admin Dashboard

[List Product](#) [View Orders](#) [View Listed Products](#) [Payment](#) [Contact Queries](#) [Manage Testimonial](#) [Signout](#)

Add Products

Product Title

Product Description

Product Price

Quantity

Upload Product Image

[List Product](#) [View Orders](#) [View Listed Products](#) [Payment](#) [Contact Queries](#) [Manage Testimonial](#) [Signout](#)

Order #QYKecbn6igsauSM8MbGp

Yousuf Fatmi

Email: yousufcool2000@gmail.com

Address: Haroon city , Karachi, Sindh

Total Amount: Pkr: 6060/=

Shipping Status: Shipped

[Mark as Shipped](#)

[Mark as Delivered](#)



Price: PKR 4560/=

Quantity: 1



Price: PKR 1500/=

Quantity: 1

[List Product](#) [View Orders](#) [View Listed Products](#) [Payment](#) [Contact Queries](#) [Manage Testimonial](#) [Signout](#)

Listed Products

Product No: 1 Name: Yousuf



I am a product

Price: Pkr 4560/-

Available: 1

Edit Quantity:

Edit Price

Delete a product

Edit Image:

No file chosen

[List Product](#) [View Orders](#) [View Listed Products](#) [Payment](#) [Contact Queries](#) [Manage Testimonial](#) [Signout](#)

Yousuf Fatmi

Email: yousufcool2000@gmail.com

Address: Haroon city

City: Karachi

State: Sindh

TotalAmount: Pkr 6060/=

PaymentStatus: Paid

Yousuf Fatmi

Email: yousufcool2000@gmail.com

Address: Haroon city

City: Karachi

State: Sindh

TotalAmount: Pkr 6060/=

PaymentStatus: unpaid

Admin Dashboard

[List Product](#)
[View Orders](#)
[View Listed Products](#)
[Payment](#)
[Contact Queries](#)
[Manage Testimonial](#)
[Signout](#)

Name: ZAWAT MASTA

Email: zawatmasta@icloud.com

Contact No: 3312715431

Subject: I want to know Xyz thing

Comment: Please respond

[Send Email](#)

[List Product](#)
[View Orders](#)
[View Listed Products](#)
[Payment](#)
[Contact Queries](#)
[Manage Testimonial](#)
[Signout](#)

Testimonial

Review No: 1

Name: Syed Yousuf Fatmi



UY-SupplyStore

This is a Testing Testimonial

Rating:★★★★

[Delete a product](#)

Edit Image:

[Choose File](#) No file chosen

[Update Image](#)

Admin dashboard is only for the admin

Admin can list products.

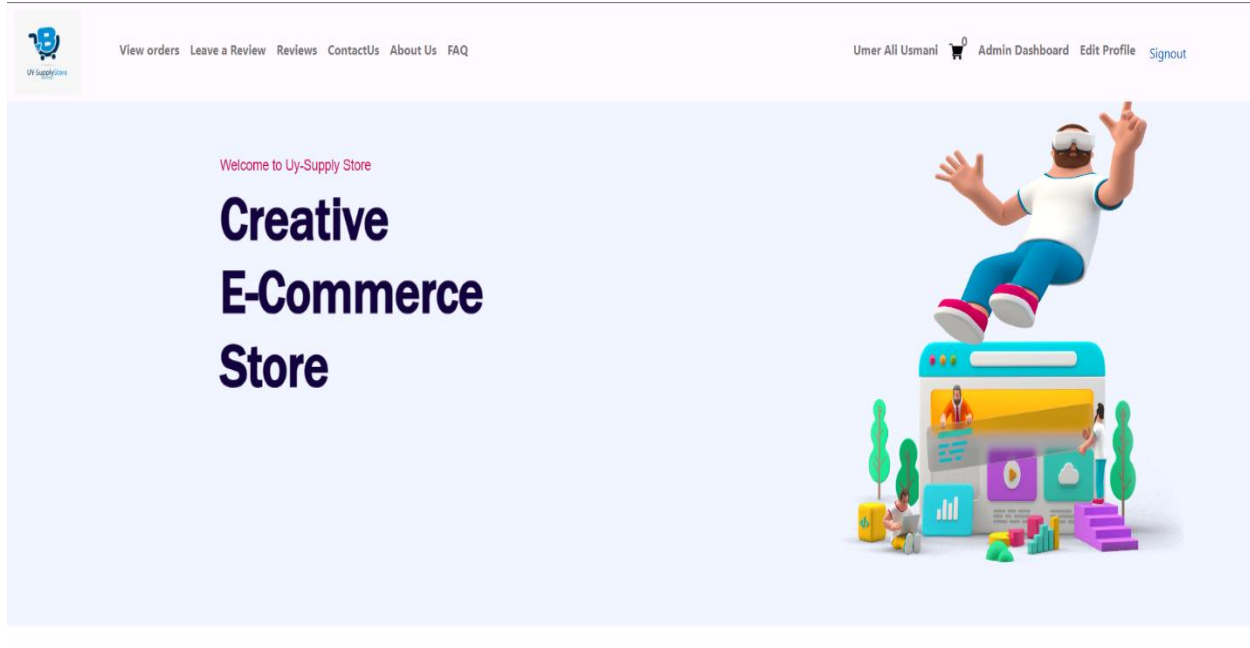
Admin can view all the listed products

Can manage orders.

Admin can see the pending and completed payments.

Entertain the contact queries from the clients.


Can manage the client reviews.



Homepage

Our Products






ROUTER UPS 9V FOR WIFI ROUTER

Gives your WiFi Router of TP Link and Tenda a backup of up-to 8 Hours. Router ups switches automatically on the battery backup within nano seconds.

Price: Pkr 1,800/-

Quantity Available: 4

[Add to Cart](#)




Heavy Duty UPS

Aries Promises a most Appropriate solution for your requirements. Aries offers a Reliable reasonable & Rugged product

Price: Pkr 50,000/-

Quantity Available: 9

[Add to Cart](#)



Oil Refiner for Home use

Home Use Mini oil refining machinery Sunflower Oil Extractor Vegetable Seeds oil refining machinery

Price: Pkr 45,000/-

Quantity Available: 0

[Out of Stock](#)

View product section on the homepage.

[View orders](#)
[Leave a Review](#)
[Reviews](#)
[ContactUs](#)
[About Us](#)
[FAQ](#)

Umer Ali Usmani
Admin Dashboard
Edit Profile
Signout

Testimonial

Your Full Name

Note

Upload Your Image

Choose File No file chosen

★★★★★

Please Rate your Product


Uploading % 0

[SUBMIT](#)

User can leave a review according to their experience.

[View orders](#)
[Leave a Review](#)
[Reviews](#)
[ContactUs](#)
[About Us](#)
[FAQ](#)


Umer Ali Usmani
Admin Dashboard
Edit Profile
Signout



Syed Yousuf Fatmi

This is a Testing Testimonial


★★★★★



Umer Ali Usmani

This is a platform

★★★★★



Umer Ali Usmani

Impressed with the Platform Service

★★★★★

View client reviews.

[View orders](#)
[Leave a Review](#)
[Reviews](#)
[ContactUs](#)
[About Us](#)
[FAQ](#)

Umer Ali Usmani
Admin Dashboard
Edit Profile
Signout

Contact Us

Name

Contact Number





Email

Subject

Comments

SUBMIT

User can leave their contact query if they have any.

Your Cart					
	ROUTER UPS 9V FOR WIFI ROUTER	+ 1 -	Pkr 1800/-		Qt Avail 4
	Heavy Duty UPS	+ 1 -	Pkr 50000/-		Qt Avail 9
<div> Continue Shopping Total Amount: Pkr 51,800/- <div> Clear Cart Checkout </div> </div>					

View how many products added by the client in the cart.

Your Receipt

Invoice No: eab6348c-e8db-4e70-a2c0-6d9b5ef5e563

Order id WjAUysMfHAbWUha5kgW7

Name: umerali

Email: umeraliusmani1@gmail.com

Address: B-362 Block 6 Gulshan e iqbal

City: Karachi

State: Sindh

ShippingStatus: Received

Price: Pkr 1,800/-

Quantity: 1



Price: Pkr 50,000/-

Quantity: 1



Price: Pkr 51,800/-

[Continue Shopping](#)

After the successful purchase client have receive the receipt in the end.

Appendix B: Psuedocode

Web Application

Login ():

INPUT username, Password

IF username and password == DB Record

IF isAdmin THEN

Redirect to Admin Dashboard

IF isManager THEN

Redirect to Manager Dashboard

ELSE Redirect to Login Page

ENDIF

ENDIF

ENDIF

Forgot Password ():

INPUT Email Address

IF Email exists in DB THEN

Send Username & Random Password on that email

Redirect to login page

ELSE

SHOW MESSAGE "Record Does Not Exists"

Redirect to forgot page

ENDIF

Change Password ():

INPUT Old Password, New Password, Confirm Password

IF Old Password != DB Password THEN

SHOW MESSAGE "Old password does not match"

```

IF New Password != Confirm Password THEN
SHOW MESSAGE "New Password Does not match with
Confirm password"
ENDIF
ELSE
SHOW MESSAGE "Password successfully changed"
ENDIF

```

Add Product ():

```

INPUT product Name, Description, price, image, shopName
IF form Validation == True THEN
SHOW MESSAGE "Record Successfully Added"
ELSE
SHOW MESSAGE "Incorrect input"
ENDIF

```

View Product ():

```

IF userSession == "Manager" THEN
Select All products Connected to that manager
OUTPUT show Products
ELSEIF userSession == "Admin" THEN
OUTPUT Show All Products
Else
Redirect To Login Page
ENDIF

```

Edit Shop ():

```

IF userSession == "Manager" THEN
VARIABLE User ID
INPUT Shop ID

```

```
CHECK in DB
IF managerID exists THEN
IF Shop ID has Manager ID THEN
IF Record exists in DB THEN
FETCH information of particular record
Redirect to form
OUTPUT Show Data
ELSE
SHOW MESSAGE "Record does not exists"
Redirect to view page
ENDIF
ELSEIF userSession == "Admin" THEN
IF Record exists in DB THEN
FETCH information of particular record
Redirect to form
OUTPUT Show Data
ELSE
SHOW MESSAGE "Record does not exists"
ENDIF
ENDIF
```

Edit Product ():

IF userSession == “Manager” THEN

VARIABLE User ID

INPUT Product ID

CHECK in DB

IF Product exists in manager’s shop THEN

FETCH information

Redirect

OUTPUT Show Product

ELSE

SHOW MESSAGE “Record does not exists”

Redirect to view page

ENDIF

ELSEIF userSession == “Admin” THEN

IF Record exists in DB THEN

FETCH information of particular record

Redirect to form

OUTPUT Show Data

ELSE

SHOW MESSAGE “Record does not exists”

Redirect to view page

ENDIF

ENDIF