



# **An Undergraduate Internship Report on Dailysories Clothing, An E-commerce Website**

By

**Mohammad Nahidul Islam**

Student ID: **1720278**

**Spring, 2021**

Supervisor:

**Md. Abu Sayed**

**Lecturer**

Department of Computer Science & Engineering

Independent University, Bangladesh

**April 30, 2021**

**Dissertation submitted in partial fulfillment for the degree of Bachelor of  
Science in Computer Science**

**Department of Computer Science & Engineering**

**Independent University, Bangladesh**

# Attestation

I hereby attest that I Mohammad Nahidul Islam (1720278) an undergraduate affiliate of Independent University Bangladesh, have completed the report and submitted it in partial fulfillment of the requirement for the Degree of Computer Science and Engineering from Independent University, Bangladesh (IUB). I have been guided by respected faculty Md. Abu Sayed. I also certify that all my work is authentic and based on my research and experience gained from my internship. I declare that the above mentioned statement is true and accurate to my acknowledgement.

---

Signature

---

Date

Write Your Name Here

---

Name

# Acknowledgement

First of all, I wish to express my gratitude to the Almighty Allah for giving me the strength to perform my responsibilities as an intern and complete the report within the stipulated time. I thank for giving me the ability to do my internship at DigiKrew. I am also grateful to my parents for supporting me during my internship period. I convey my sincere gratitude to my Academic Supervisor Md. Abu Sayed, Lecturer in Department of Computer Science and Engineering, Independent University Bangladesh. Without his kind direction and proper guidance this report would have been a little success. In every phase of the project his supervision and guidance shaped this report to be completed perfectly. Bearing in mind previous I am using this opportunity to express my deepest gratitude and special thanks to the CEO of Company, Mr. Mahi Washim who in spite of being extraordinarily busy with his duties, took time out to hear, guide and including me in meetings with clients that helped in gaining knowledge. I express my deepest thanks to Mahmudul Hasan, Senior Developer for taking part in useful decision giving necessary advices and guidance and arranged all facilities to make life easier. I choose this moment to acknowledge his contribution gratefully. I perceive as this opportunity as a big milestone in my career development. I will strive to use gained skills and knowledge in the best possible way. I would also like to express my gratitude to all my colleagues for helping me throughout and making the Internship process so much enjoyable. Without them, this journey would have not been easy.

# Letter of Transmittal

April 30 2021

Md. Abu Sayed

Lecturer

Department of Computer Science and Engineering, Independent University, Bangladesh

Subject: Submission of Internship Report.

Dear Sir,

With due honor and respect I hereby submitting my Internship Report, which is partial fulfillment for the degree of Bachelor of Science in Computer Science. It is great achievement to work under your active supervision. This report is based on, “E-commerce” for an online store Dailysories Clothing. I have got the opportunity to work in DigiKrew as an intern for Web Development for a period of 3 months, under the supervision of Mr. Mahmud Hasan , Senior Developer, DigiKrew. This project gave me both academic and practical exposures. As this was my first time attending in office and meeting with corporate people, first of all I learned about how to deal with clients, how to attend meetings and gather software requirements from stake holders. Secondly, the project gave me the opportunity to develop a website for corporate use. I shall be highly obliged if you are kind enough to receive this report and provide your valuable judgment. It would be my immense pleasure if you find this report useful and informative to have an apparent perspective on the issue.

Sincerely Yours,

Mohammad Nahidul Islam

1720278

# Evaluation Committee

.....  
Signature

.....  
Name

.....  
Supervisor

.....  
Signature

.....  
Name

.....  
Internal Examiner

.....  
Signature

.....  
Name

.....  
External Examiner

.....  
Signature

.....  
Name

.....  
Convener

# Abstract

In this report, I have elaborately explained the structure and configurations of the E-commerce based website named “Dailysories Clothing”. I have discussed the objective of the project, details on management in building the website up to its’ deployment. Moving forward I have explained the methodology used to complete the website starting from planning, to building, to testing out to deployment. Before beginning to build a project it is necessary to analyze the outcome, draw graphical explanations of the website as well as to consider the results and finally to obtain the analysis from the website. All of the aspects regarding each factor have been discussed below. Apart from the explanation of the project I have shared elaborated my internship experience in DigiKrew. As an intern of the company, I was assigned with responsibilities that I performed remotely. Before being assigned to any project, I started with learning HTML, CSS, PHP, Bootstrap, and JS. Furthermore I got to learn about useful skills and tricks in developing a fully functional, efficient, user-friendly responsive website.

# Contents

<b>Attestation</b>	<b>i</b>
<b>Acknowledgement</b>	<b>ii</b>
<b>Letter of Transmittal</b>	<b>iii</b>
<b>Evaluation Committee</b>	<b>iv</b>
<b>Abstract</b>	<b>v</b>
<b>1 Introduction</b>	<b>1</b>
1.1 Overview/Background of the Work . . . . .	1
1.2 Objectives . . . . .	1
1.3 Scopes . . . . .	1
<b>2 Literature Review</b>	<b>3</b>
2.1 Relationship with Undergraduate Studies . . . . .	3
2.2 Related works . . . . .	3
<b>3 Project Management &amp; Financing</b>	<b>6</b>
3.1 Work Breakdown Structure . . . . .	6
3.2 Process/Activity wise Time Distribution . . . . .	7
3.3 Gantt Chart . . . . .	7
3.4 Estimated Costing . . . . .	8
<b>4 Methodology</b>	<b>9</b>
<b>5 Body of the Project</b>	<b>11</b>
5.1 Work Description . . . . .	11
5.2 System Analysis . . . . .	12
5.2.1 Six Element Analysis . . . . .	12
5.2.2 Feasibility Analysis . . . . .	13
5.2.3 Problem Solution Analysis . . . . .	14

5.2.4	Effect and Constraints Analysis . . . . .	14
5.3	System Design . . . . .	15
5.3.1	Rich Picture . . . . .	15
5.3.2	UML Diagrams . . . . .	15
5.3.3	Used Case Diagram . . . . .	17
5.3.4	Functional and Non-Functional Requirements . . . . .	19
5.4	Product Features . . . . .	20
5.4.1	Input . . . . .	20
5.4.2	Output . . . . .	21
5.4.3	Architecture . . . . .	22
<b>6</b>	<b>Results &amp; Analysis</b>	<b>23</b>
<b>7</b>	<b>Project as Engineering Problem Analysis</b>	<b>26</b>
7.1	Sustainability of the Project/Work . . . . .	26
7.2	Social and Environmental Effects and Analysis . . . . .	26
7.3	Addressing Ethics and Ethical Issues . . . . .	27
<b>8</b>	<b>Lesson Learned</b>	<b>28</b>
8.1	Problems Faced During this Period . . . . .	28
8.2	Solution of those Problems . . . . .	29
<b>9</b>	<b>Future Work &amp; Conclusion</b>	<b>30</b>
9.1	Future Works . . . . .	30
9.2	Conclusion . . . . .	30
	<b>Bibliography</b>	<b>31</b>



# List of Figures

2.1	eCommerce Work Flow Diagram . . . . .	4
3.1	WBS of the project . . . . .	6
3.2	Project Gantt Chart Project Planner . . . . .	8
4.1	SDLC Deployment Phases . . . . .	10
5.1	Rich Picture of The System . . . . .	15
5.2	User Activity Diagram . . . . .	16
5.3	Admin Activity Diagram . . . . .	17
5.4	Used Case Diagram of The System . . . . .	18
5.5	Admin Login . . . . .	20
5.6	User Dashboard . . . . .	21
5.7	Insert Product . . . . .	21
5.8	Homepage . . . . .	22
6.1	User Dashboard . . . . .	23
6.2	Category . . . . .	24
6.3	Subcategory . . . . .	24
6.4	Inserting Product . . . . .	25
6.5	Managing Product . . . . .	25

# List of Tables

3.1	task wise time allocation . . . . .	7
3.2	Estimated Costing . . . . .	8
5.1	Six Element Analysis of The System . . . . .	12

# Chapter 1

## Introduction

### 1.1 Overview/Background of the Work

In this report I am describing my work, knowledge implementation and my work experience being in the developer team of the company. I am specifically will be explaining the aspects over a specific project. Since the project is a client based/companies property I am not permitted to describe a lot of aspects. So, I'm making a simple explanation demo to show my contribution to this project. In this e-commerce website project, I am using HTML, CSS, PHP, Bootstrap, and JS, the website is named as "Dailysories Clothing". It is an E-commerce website where users can easily book products online. From the website customer can view the model number of the product, detailed description of the product and specific reviews on the specific product. The main benefit of this website is that it maintains authenticity of the company, customer attraction and customer flexibility.

### 1.2 Objectives

The main objective of the project is to ensure easy ordering process for the consumers. After the world was hit by the global pandemic all consumers turned them into online shopping which maximized the sales on stores. Thus to make the ordering process faster is one of the main objective. Also another main objective of the website is the authenticity of the company. Another objective is to publish more details of the product. To specify, the website separates the product for men's and women in two different pages respectively. The website shows about the brands the company is connected with.

### 1.3 Scopes

Features available to the user after the development of this web application:

- Landing page- The first page the user will see after visiting the website

- Displays different types of products of the company.
- Displays product categories.
- Details and reviews of the products for better understanding of the customer.
- Search option to look for any specific product.
- Contact Us page- where the user will be able to contact the company directly
- About us- where users can learn more about the company.

# Chapter 2

## Literature Review

### 2.1 Relationship with Undergraduate Studies

As majoring in Computer Science engineering (CSE), few courses can be related with my work. As my work is coding and analysis based, the given courses from academic helped in my corporate. CSE 203, Data Structures: This is the most basic course that helped us with the ideas of several data structures and their applications such as Stack, Queue, Linked List, Array, and Pointer and so on. CSE 213, Object-Oriented Programming: This course taught how to plan for a project step by step and more about the backend coding for a project. . It also taught how to write modular programs which made codes less repetitive and more reusable. CSE 303, Database Management: This course helped in learning of plans needed for the project. The architecture of the system and more about fetching data, that is about database. It covered popular planning and strategy practices such as Six Element Analysis, Problem Analysis, System Development Life Cycle, Rich Picture, Requirement Analysis, Entity Relationship Diagram, Business Process Model, and Normalization CSE 307, System Analysis and Design: This course gives an overview of Used Case Diagram, Used Case Scenario, SDLCs and how to adopt each one of them to the project. CSE 309, Web Application and Internet: This is the course where the development of web applications was taught. It covered very important technologies that are highly in demand in the industry, such as HTML, CSS, JavaScript, jQuery, Node.js, Front-end framework, developing responsive and mobile-first websites. CSE453 Software Requirement Engineering: This course helped me learn how to gather requirements, information and methodologies for the system.

### 2.2 Related works

Before starting for the project, to overcome issues and also to learn more about the development of such ecommerce few research papers, journals and online articles were

looked into. In this section of report I have mentioned how I learned more about such developments, the process of developing and the required things that earned from looking into multiple published research papers on E-Commerce.[1] Aaftab Aalam mentioned the first goal of an ecommerce site is to sell goods and services online. Online shopping may be a type of electronic shopping store where the customer is directly online to the seller's computer usually via the net. The go-cart is especially useful for who haven't time to travel to shopping. Go-cart may be an important feature employed in e-commerce to help people making purchases online. Satyam Sharma mentioned E-commerce website design is the method of shaping the coding, modules in HTML, CSS3, JavaScript and Bootstraps for designs, interfaces and information for a system to satisfy mere needs. System Module Description:

- Coding (HTML, CSS3, JavaScript, Bootstraps)
- Seller
- Customer
- Management
- Delivery

A work flow diagram was added and I followed it.



Figure 2.1: eCommerce Work Flow Diagram

I have looked into another paper on Development of an Electronic Commerce WEB Application. Segun O. Olatinwo<sup>2</sup> proposed a new system. The newly proposed system

is computer driven. The system is a modification of the various functions of the previous system, with better and efficient routine execution. The design takes into cognizance the input, output and the speed of processing information. The major factors considered during the design are the input and the output, which was the main problem of the previous system. The hardware and the software for the proposed system were both installed to test the functionality of the system. During testing errors were detected and debugged, amendments were made to hardware installation initially implemented. [2]

# Chapter 3

## Project Management & Financing

### 3.1 Work Breakdown Structure

Breaking work into smaller tasks is a common productivity technique used to make the work more manageable and approachable. For projects, the Work Breakdown Structure (WBS) is the tool that utilizes this technique and is one of the most important project management documents. It covers a visual of all the scopes, risks, points of communication, responsibilities, costs and guarantees that it does not skip essential deliverables. Below I have demonstrated our WBS

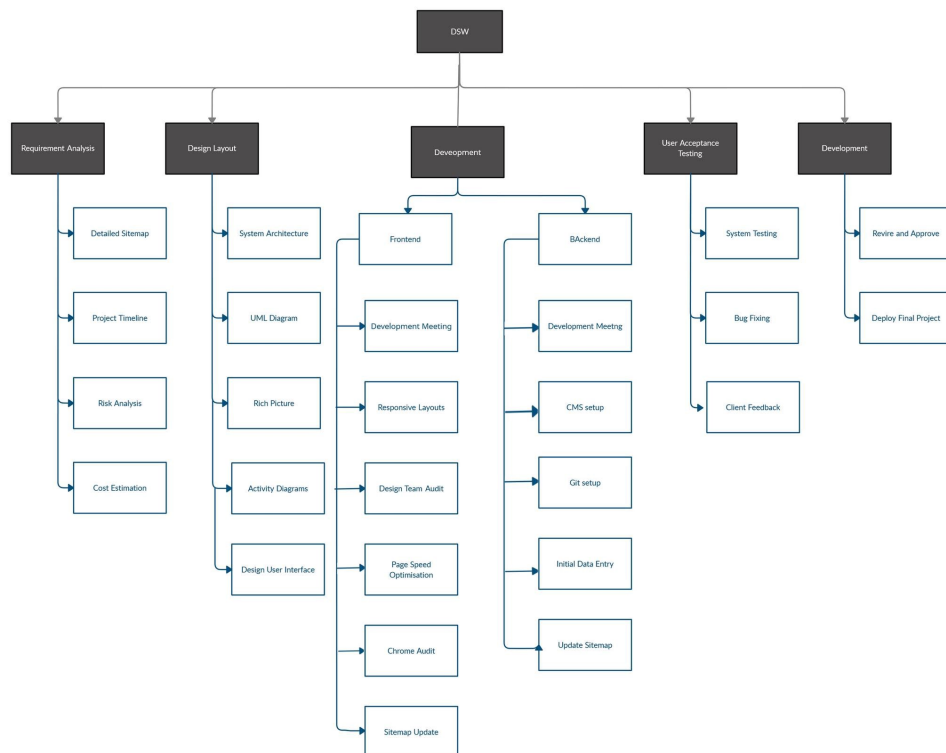


Figure 3.1: WBS of the project



Work Breakdown structure(WBS) is a method from project management used for completing complex and multi-step projects by breaking it into small steps which can be completed by different team groups and members.

In the above WBS Structure we have demonstrated how we divided the work for development of the Dailysories Clothing Website (DSW). We divided the major groups in Requirement Analysis where requirements will be analyzed gathered from client. Moving towards the Layout designing where initial plan with System Architecture, UML diagrams are considered. Then the development division both for the Front End and Backend was segmented .After that The project will go through the group of User acceptance testing and finally for deployment and Live.

The WBS, when created as thoroughly as possible, is the roadmap to guide you to completion Of what would seem to be a very complicated project. However, when broken down with a WBS, the project suddenly becomes much more manageable.

## 3.2 Process/Activity wise Time Distribution

Below table below shows the time allocation of the work.

Task	Days	Work Percentage
Requirement Analysis	5	7
Design Layout	5	23
Development	17	50
User Acceptance Testing (UAT)	5	10
Deployment	5	10
Total	37	100

Table 3.1: task wise time allocation

## 3.3 Gantt Chart

We have used the Gantt Chart to plan and schedule all the activities that were needed to complete the project.

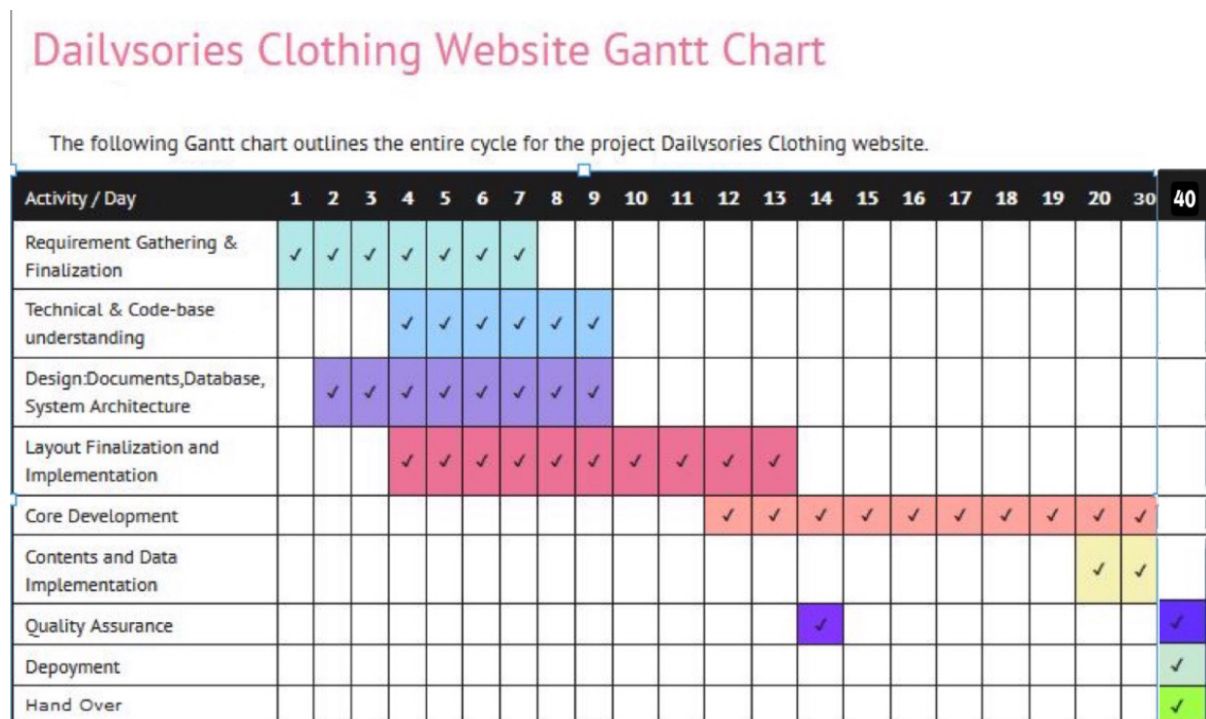


Figure 3.2: Project Gantt Chart Project Planner

Grantt Chart is a graphical explanation of a project. It is a kind of Bar chart that shows the time start, time period and the end time of the project till deployment. The Horizontal line shows the amount of work done in certain periods of time. In the above chart I have marked tick and showed the time period of the working for every segment.

### 3.4 Estimated Costing

The estimated cost was calculated basing clients requirements, deadline, size, functionalities and design of the website. This includes pre-designed themes, chat option, social media connection. The cost of domain and hosting was also added. The total estimation for the client was BDT 14,500/- Only.

Work Distribution	Costing
Web Portal Development	13,000
Domain & Hosting	2,500
Total	15500

Table 3.2: Estimated Costing

# Chapter 4

## Methodology

For this project we chose SDLC (Software Development Life Cycle) methodology. The Software Development Life Cycle (SDLC) refers to a methodology with clearly defined processes for creating high-quality software. in detail, the SDLC methodology focuses on the following phases of software development: [3]

- Requirement analysis
- Planning
- Software design such as architectural design
- Software development
- Testing
- Deployment

## How to categorize SDLC phases with **DEVELOPMENT?**

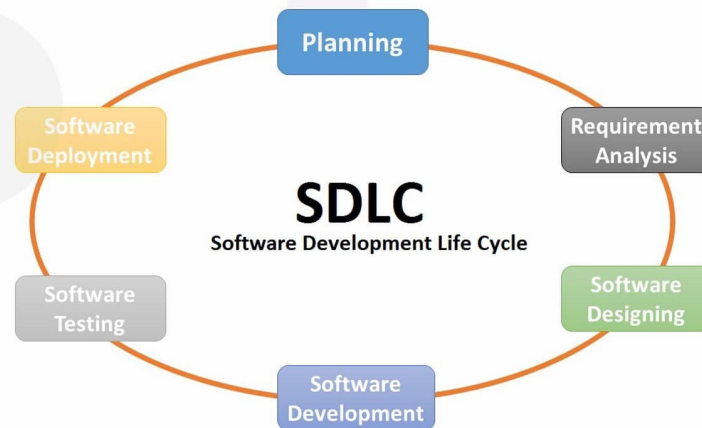


Figure 4.1: SDLC Deployment Phases

Specifically we applied the waterfall model. The waterfall model is a sequential model process where the input of a phase results from the previous phase

The Planning stage consists of the plans for the project and a deciding stage for proceeding or not. This is where the proposal submission comes into the picture.

The next step is analysis. This is where requirements and information are gathered. With the user requirements gathering completed, there is a need to prepare the resources for the project. Be it software or hardware components, careful consideration and selection are to be taken care of at this stage.

The next phase is to design the system and the database structure. Results from the analysis and preparation that were concluded from the previous stage are put into action. With the user requirements in mind, the system is planned and the user interface is designed to suit their easy navigation needs.

After completing, coding and developing stage begins. The database is created and codes are written. Some of the codes required amendments and improvements to it so these are being developed at this fourth stage of the waterfall model.

The codes and databases are tested to ensure the results obtained are as intended. More time is spent on both development and testing stages because it is inevitable to have errors and issues time is allocated for troubleshooting

# Chapter 5

## Body of the Project

### 5.1 Work Description

The website for Dailysories Clothing is a online e-commerce store who sells service and products. The main aim of the website is to verify their company and also to drive customers to the website from their Facebook Store. Also in website the can provide more transparent information about their products. As an intern my job was to design the frontend also contribute in backend (being under the supervision of the senior developer) of the project with the help of different tools like Bootstrap HTML, CSS, PHP, jQuery, Laravel etc. and build the backend so that the two can be connected.

## 5.2 System Analysis

### 5.2.1 Six Element Analysis

2*Process	System roles					
	Human	Non-Computer Hardware	Computing Hardware	Software	Database	Communication and Network
Choose Products	Select Products from website	N/A	Computer and Calculator	www.daily series clothing.com	Live Server	WAN/LAN
Upload New product	Admin upload new product, picture and description	N/A	Computer and mobile	www.daily series clothing.com	Live Server	WAN/LAN
Update/Delete/Edit products	Admin	N/A	Computer	www.daily series clothing.com	Live Server	WAN/LAN
Review the product and place order	Customer can review the product and place order	N/A	Computer	www.daily series clothing.com	Live Server	WAN/LAN
Deliver the product	If the product is available, delivery boy pick-ups and delivers	N/A	Computer	www.daily series clothing.com	Live Server	WAN/LAN

Table 5.1: Six Element Analysis of The System

Explaining the above table of six element analysis, the first step is choosing the product where users/customers play their role. Customer can choose their desired products

from the website from his/her smart device. The next steps are uploading new product, update, delete and edit. Here the role is played by the admin of the website, where admin can upload new products, update details of the product, update, delete and edit uploaded products. And then the next step is reviewing product from cart and place an order. This role is played by customer where customer can review their product added to cart and if want they can place an order. Lastly, the final step is dispatching the ordered product by customer. If the product is available, delivery boy will pick up and approaches for delivery.

### 5.2.2 Feasibility Analysis

Our product ‘Dailysories Clothing’ Website has been thoroughly analyzed in a comprehensive feasibility study before a decision is made to go ahead or not. What are feasibility studies? A feasibility study is a comprehensive report about a project that details clearly the strengths, opportunities, weaknesses and threats of a given business undertaking and whether or not the company has the required resources, legal wiggle room and the technical capacity to undertake the project as designed. Different types of feasibility studies address a different aspect of a project. In case the project is not viable then the project is redesigned, cancelled or modified to accommodate the requirements dictated by the study

**Technical feasibility:** DigiKrew is a startup company but within a very short time they managed to work with very renowned companies of our country. They are fully capable of turning a designed system into an actual working system. All the hardware, software, and other technical requirements needed to complete this project are available making this project technically feasible.

**Legal feasibility:** As the sector of e-commerce is growing day by day it was necessary for the company to check on to the brand name and legalization of the company. It was found that the company meets are a laws that are related to us.

**Economic Feasibility:** The cost and benefits of this website have been considered in this section. The website does not contain any hidden costs for users. They aim to profit from the land dealings made when visitors study the land from the website and decide to make a purchase.

**Operational Feasibility:** The ongoing pandemic and economic situation make the web-site very feasible as it is now very risky to go to stores and check the products personally. With the help of this website, users and customers can very easily find all the necessary information that is needed to help make them make a purchase.

**Scheduling Feasibility:** To make a project successful, it is very important to complete a project at the promised time. But the project was completed in due time as the government announced a lockdown and the employees were affected with COVID19.

Client was assured about it and they did not have any issue with the delay.

### 5.2.3 Problem Solution Analysis

There were a number of problems we faced while developing the project also was solved accordingly. Some of the problems were –

- Hashing Password: There was a problem with the json web token (JWT) to secure the User / Admin password inside the database, which has been fixed.
- Product Category: There was a category and sub-category inserting problem for each product, which has been resolved.
- Order Status: Showing status differently for each product, such as today's order, delivered order, pending order. These problems have been solved.
- Track Order: After ordering a product, there was some problem in checking its condition, it has been solved.

### 5.2.4 Effect and Constraints Analysis

The website lets the visitors view unique products and ensures authenticity of the company. Customers can place an order for their desired product. However, our system has some limitations that are yet to be developed and solved. We understand that purchasing any product from online website leaves a risk behind. That is why the company advised to keep Cash on delivery option so that customers can check and make the payment and if not liked they can return. We are still thriving to bring out more changes and add more features to our website that would help and encourage more and more people to start this practice of checking the e-commerce websites rather purchasing from Facebook stores and offline. This will not only make people's lives easier but will also be a big advantage during the ongoing pandemic.



## 5.3 System Design

### 5.3.1 Rich Picture

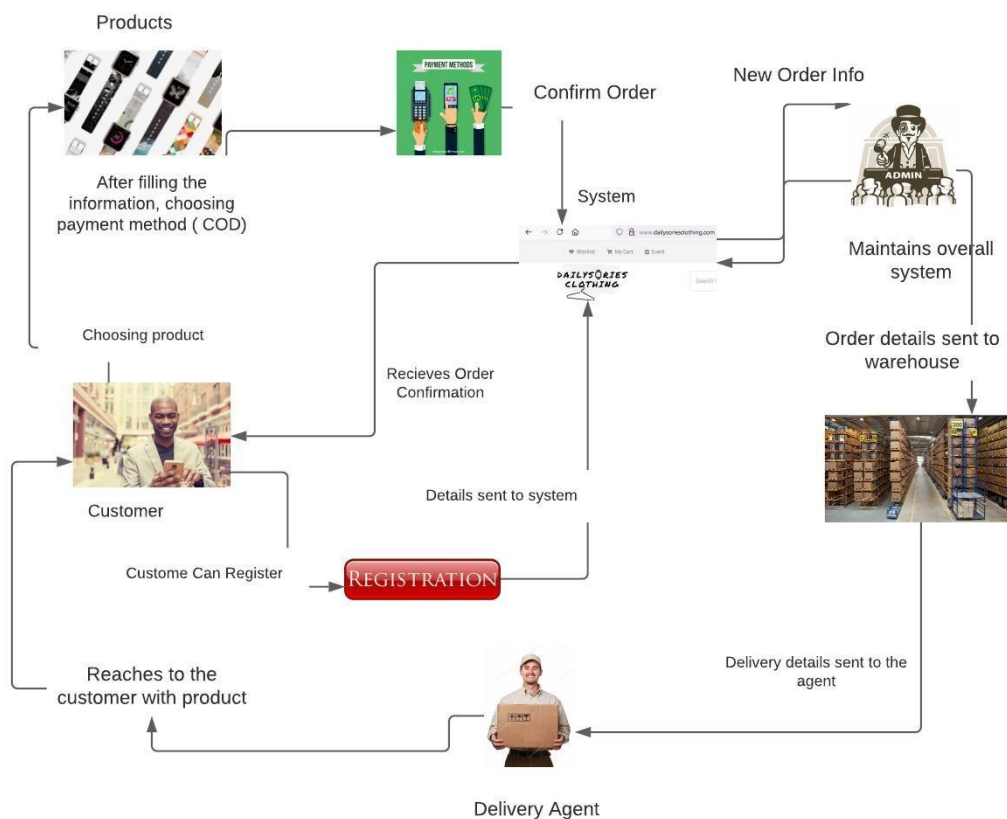


Figure 5.1: Rich Picture of The System

The photo shows a rich picture displaying a fleet management system. The actors are a admin, user (customer) and the delivery agent. Here customer can view and place order of any product from the system. Admin maintains and share details of the order to the warehouse and delivery man pick and deliver to the customer and takes payment.

### 5.3.2 UML Diagrams

UML diagrams show the flow of one activity to another. The activity diagram of the user and admin help to visualize the flow of their activity in graphical form.

#### User Activity Diagram

The activity diagram is an important UML diagram that shows the flow of one activity to another. Below I have demonstrated the activity of a user of the system

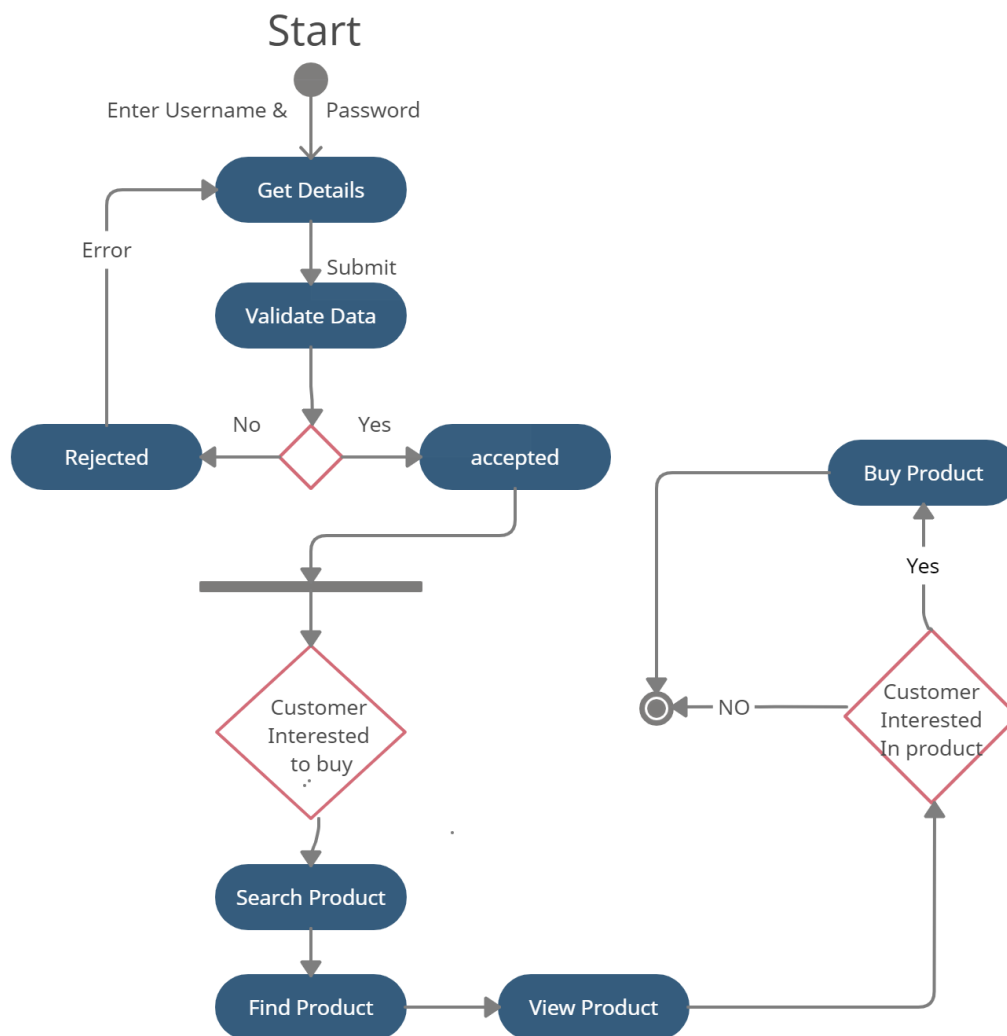


Figure 5.2: User Activity Diagram

In the above activity diagram, the process is started after visiting the URL of fleet Management system. When customer inputs their credentials, if approved and validated, customer will/can search a product, view details and proceed to place an order. If the credentials does not validate, will show error and ask to input again. After performing the activity, finally, the process is terminated at logout.

### Admin Activity Diagram

The activity diagram is an important UML diagram that shows the flow of one activity to another. Below I have demonstrated the activity of an Admin of the system.

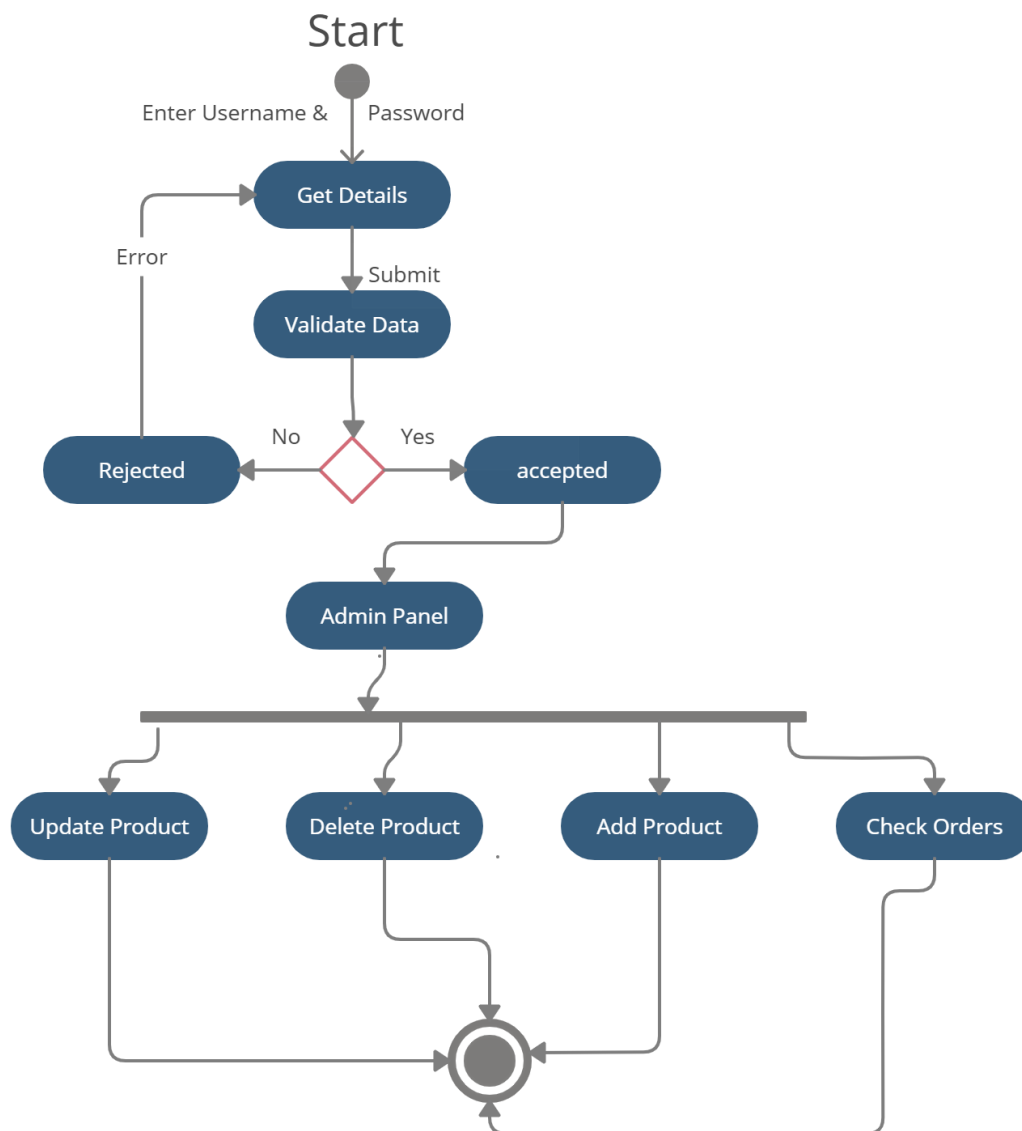


Figure 5.3: Admin Activity Diagram

When admin inputs credentials, if approved and validated will be logged in to admin panel , and will be able to view orders, manage orders, Update, delete , add . After performing the activity, finally, the process is terminated at logout.

### 5.3.3 Used Case Diagram

A use case diagram is a graphical depiction of a user's possible interactions with a system. It shows the actors, cases, communication links, system and relationship.

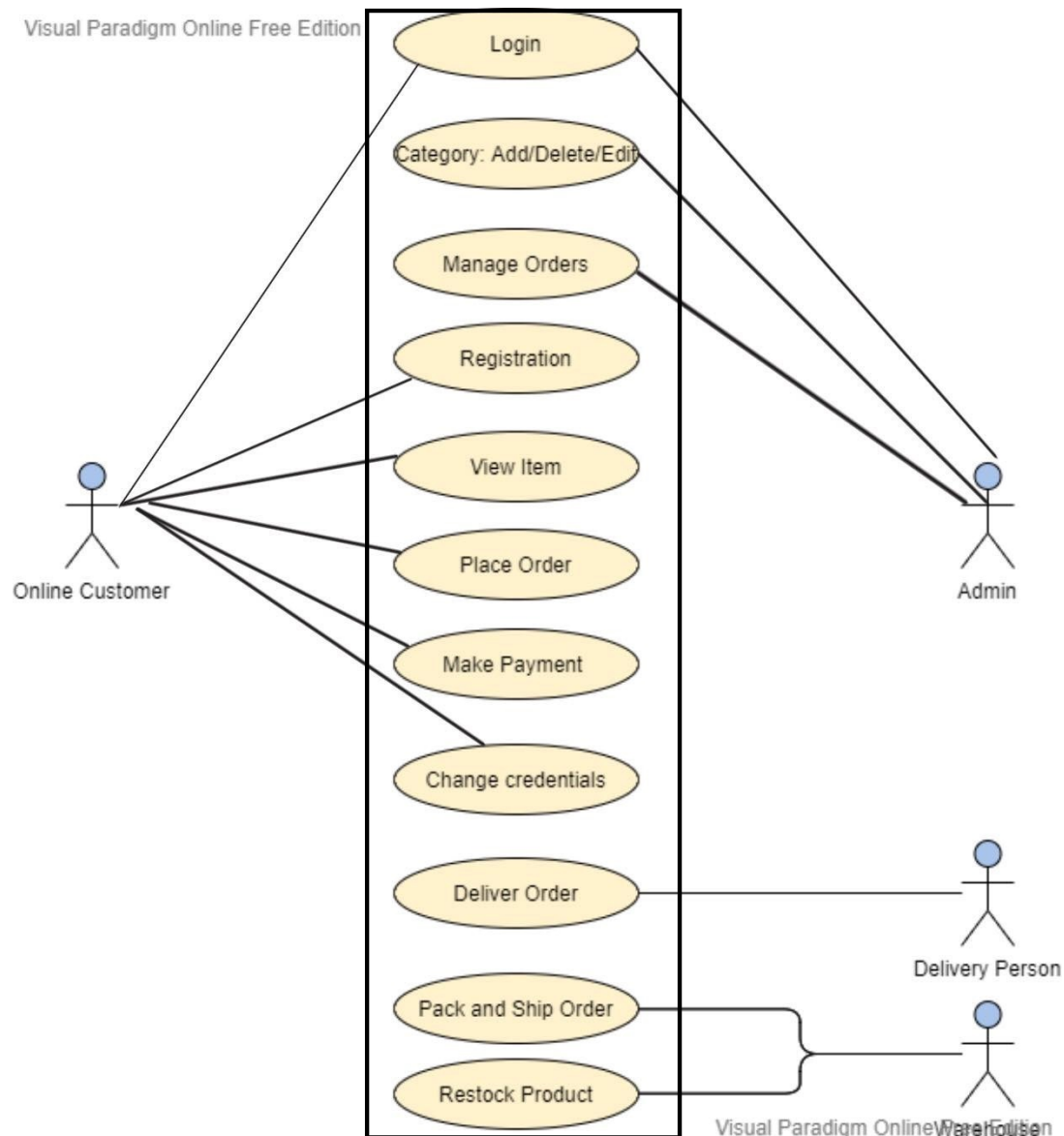


Figure 5.4: Used Case Diagram of The System

A use case diagram is a graphical explanation where the Horizontally shapes represents the use of the actors and actors as stick figures who are using it. In the above used case diagram there are 4 actors which include;

- Actor 1, A Customer (user) who can login, Register, View Item, Place order, make payment, Change credentials.
- Actor 2, An Admin who can login from the admin panel, Add/Edit/ Delete and manage products.
- Actor 3, The Delivery person who will deliver the product to the customer and collect payment.
- Actor 4, Ware House manager who will pack and restock the products.

### 5.3.4 Functional and Non-Functional Requirements

#### Functional Requirements

##### Authority

- Add Product

New entries must be entered in database

- Update Product

Any changes in product should be updated in case of update

- Delete Product

Wrong entry must be removed from system

- Inquiry Registered Customers

Inquiry all current enrolled customers to view their details

- Check out product

Any ordered product must be checked out

- Check in sold product after receiving any selling product system will reenter product by Checking

- Inquiry comments for approvals

Customer give comments which is in waiting list

- Prepare Shop database

All databases must be prepared.

##### Customer

- Authentication

Customers must authenticate before accessing system

- Search Product

Customers can search any product

- Request Product

After successful searching Customers can add item to cart for checkout

- Check Account

This use case is used to check account details

- Register user

Customers must full fill all application form for registration

## Non-Functional Requirements

- Security:

Only authorized users can access the system with username and password.

- Performance:

Easy tracking of records and updating can be done.

- User Friendly:

The System is very interactive.

- Maintainability:

Backups for databases are available.

- Service:

The system will run 7 days a week, 24 hours a day.

## 5.4 Product Features

### 5.4.1 Input

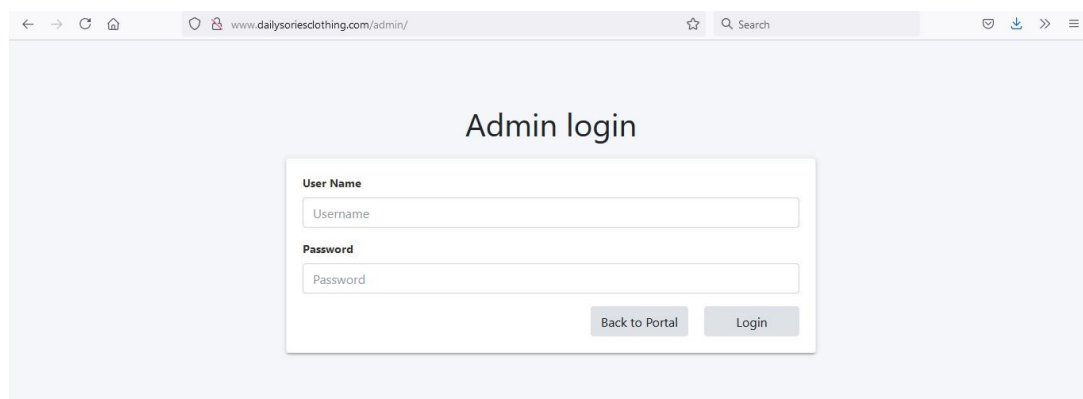


Figure 5.5: Admin Login

Admin can login with his username password and access the admin panel. From admin panel admin can manage and update products. A view of the output is demonstrated here

## 5.4.2 Output

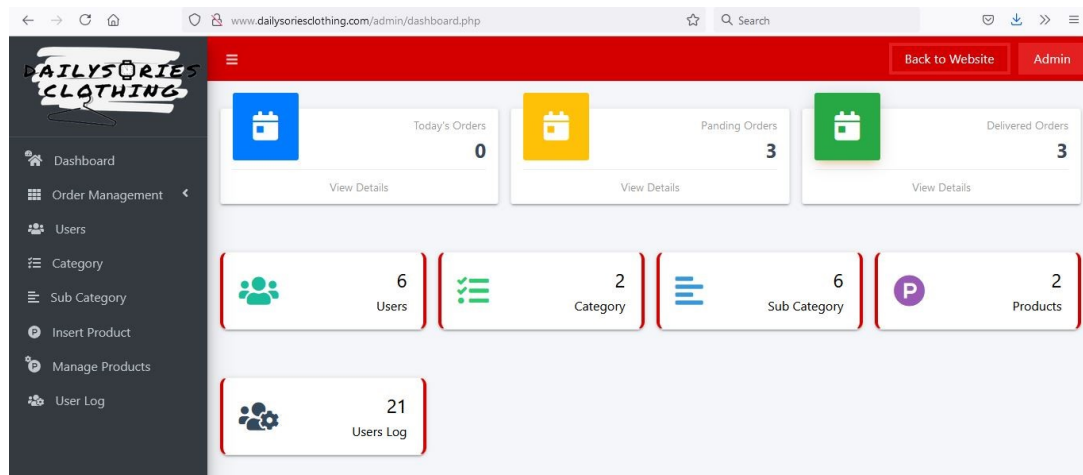


Figure 5.6: User Dashboard

This is the view of admin panel which is accessible by admin only. Admin can login with his username password and access the admin panel. From admin panel admin can manage and update products.

The screenshot shows the 'Insert Product' form in the admin panel. The form has the following fields: Category (dropdown menu with 'Mens Watch' selected), Sub Category (dropdown menu with 'Casio Retro' selected), Product Name (text input with 'Casio - B640WB-1A vintage unisex watch'), Product Company (text input with 'Casio'), Product Price Before Discount (text input with '7400'), Product Price After Discount (Selling Price) (text input with '7000'), Product Description (rich text editor), and Product Shipping Charge (text input). The top right of the form has 'Back to Website' and 'Admin' buttons.

Figure 5.7: Insert Product

Admin is uploading a new product with name “Casio - B640WB-1A vintage unisex watch” . A view of the output is demonstrated here

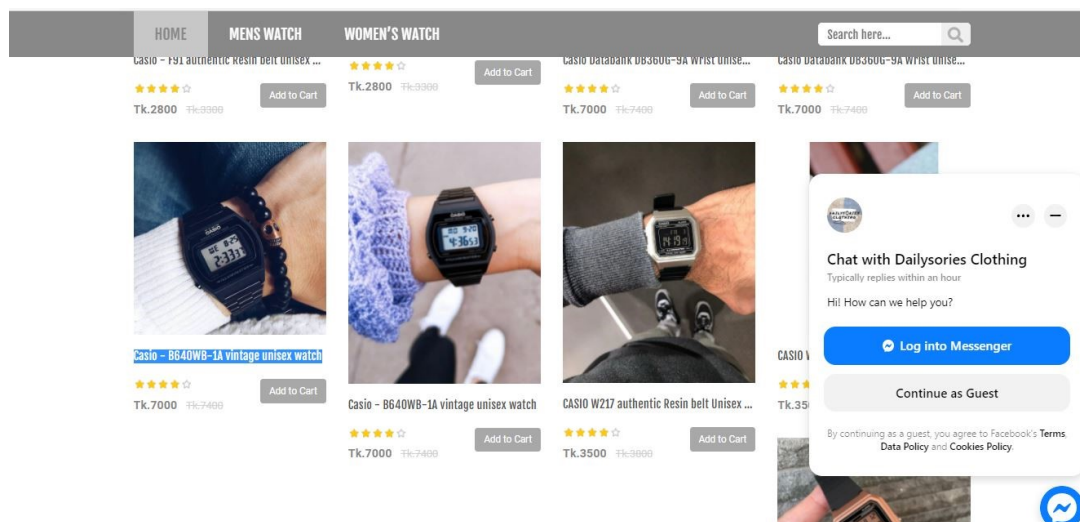


Figure 5.8: Homepage

As the admin uploaded a new product with name “Casio - B640WB-1A vintage unisex watch”, the output displays in the user panel of the website.

### 5.4.3 Architecture

To develop this project, MVC pattern has been used. The model contains a function which is used to insert, retrieve and update information from the database. The view contains the data that is presented to the user. The controller is used to connect model and view to process HTTP access and this generates a web page. Controller receives all the requests and passes it to the model and view. When a user visits the website it views information.



# Chapter 6

## Results & Analysis

The website was built to make easier for customers to place an direct order. One of the goals was to incorporate all products under one site so that the customers don't need to knock on their other social page and wait for response. Below I have shown few screenshots of some major pages from the website.

### Scene after Admin Logged in

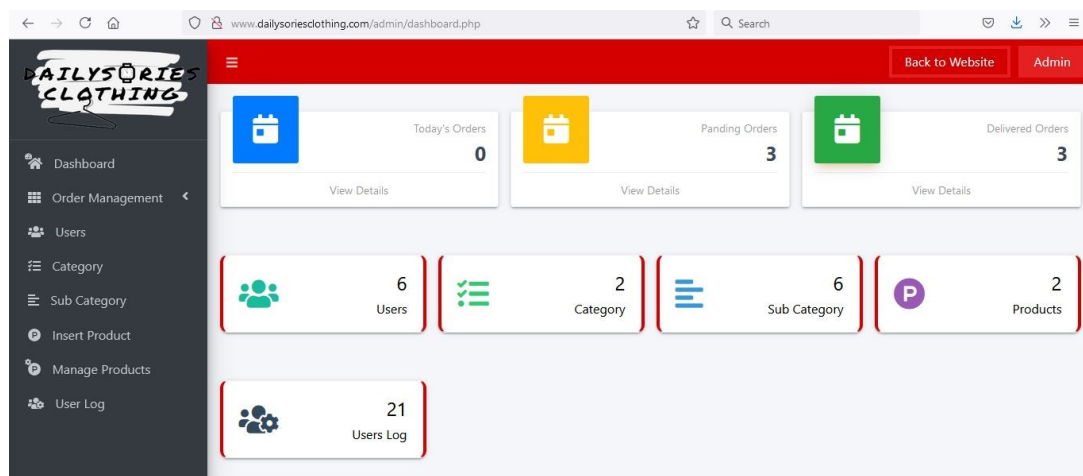
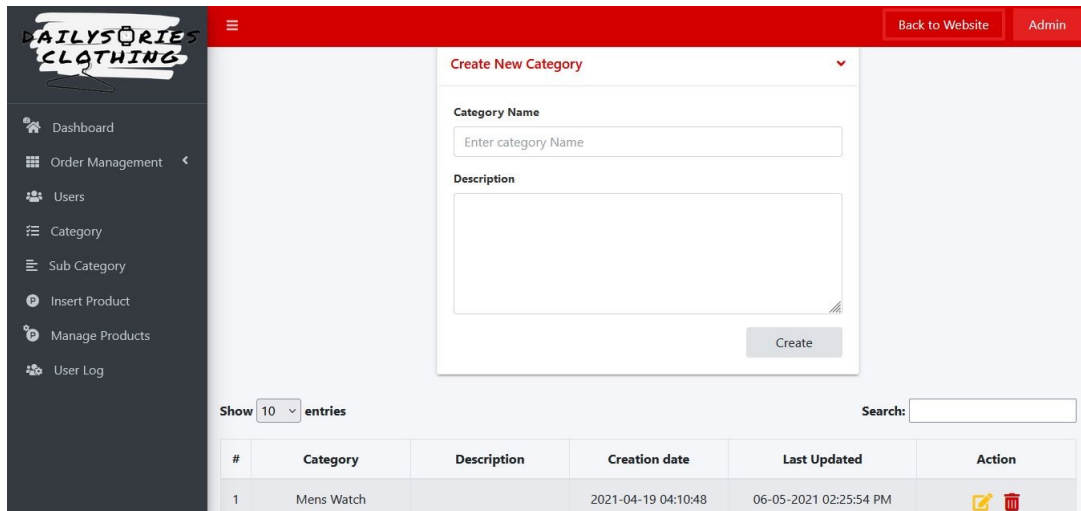


Figure 6.1: User Dashboard

Here Admin can manage all the orders which were places before and after (recently), also can view the customer delivery details from the dropdown menu of “Order Management”

## Category Subcategory:



Dashboard

Order Management

Users

Category

Sub Category

Insert Product

Manage Products

User Log

Back to Website

Admin

Create New Category

Category Name

Enter category Name

Description

Create

Show 10 entries

Search:



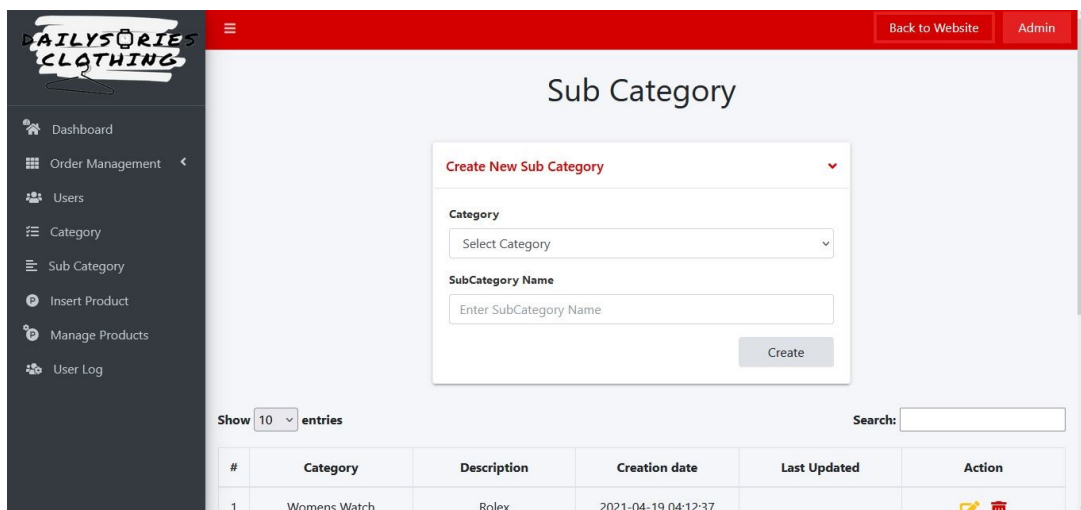
#	Category	Description	Creation date	Last Updated	Action
1	Mens Watch		2021-04-19 04:10:48	06-05-2021 02:25:54 PM	 

Figure 6.2: Category

Admin can create a category of the products, suppose men's watch or women watch.



Dashboard

Order Management

Users

Category

Sub Category

Insert Product

Manage Products

User Log

Back to Website

Admin

Sub Category

Create New Sub Category

Category

Select Category

SubCategory Name

Enter SubCategory Name

Create

Show 10 entries

Search:



#	Category	Description	Creation date	Last Updated	Action
1	Womens Watch	Rolex	2021-04-19 04:12:37		 

Figure 6.3: Subcategory

Here admin can create sub categories under category, suppose “Armani Men’s watch” “under the category ‘Men’s watch’

## Insert/Add new products

Figure 6.4: Inserting Product

Admin can add new product by clicking on Add. After adding product it will be stored in database and admin can view it in products page.

## Manage Products

#	Product Name	Category	Subcategory	Company Name	Product Creation Date	Action
1	Air King Black Dial Stainless Steel Mens Watch	Mens Watch	Rolex	Rolex	2021-04-19 04:25:54	
2	J12 White Dial Unisex Watch H5582	Womens Watch	Chanel	Chanel	2021-04-19 04:49:42	

Figure 6.5: Managing Product

Admin can manage Products that were previously uploaded. Admin can edit, update or delete any products from this section

# Chapter 7

## Project as Engineering Problem Analysis

### 7.1 Sustainability of the Project/Work

During my internship time, I faced some challenges in developing the Website. These are given below:

#### **Adapting to New Technologies corporate environment:**

Being new in this field, the first two weeks were quite challenging for me to understand the process. I had to learn adapt new language to build a website which was quite challenging for me. For this reason, initially, my learning curve has been substantially low. Despite this, I think I was able to keep up because of the proper guideline from my Supervisor.

#### **Understanding the Requirements:**

Since I was new in this filed, it was difficult for me to understand the requirements. But I was taken to client meetings also sent to the client on off days to talk and gather more details and requirements which helped me a lot.

### 7.2 Social and Environmental Effects and Analysis

Sustainability awareness is of great importance in e-commerce. Researchers and practitioners have asked how environmentally aware online shopping malls are, and which measures can be implemented for green-minded customers. All aspects are connected and a company cannot choose to deal with one and omit another. Concern for the environment involves natural resources, packaging materials, carbon dioxide emissions, water

pollution, and soil contamination. Companies should ensure that their activities will not lead to depletion of and damage to natural resources. Dealing with the production process, products, and services means not harming living creatures before, during, and after use of the product, and thus ensuring life continues. The support for a green environment and products contributes to the health of sustainable e-commerce consumers.

### 7.3 Addressing Ethics and Ethical Issues

The social aspect includes human needs and cultural development. In this dimension, it is a concern about how e-commerce will positively impact on consumers. Consumers want better health, a green environment, and socially responsible communities in the daily conduct of online business activities. Besides, one cannot forget CSR (Corporate Social Responsibility) and business ethics in day-to-day activity. The problem today is that the actions taken by human beings to meet their needs damage the future capability to generate other resources. The most important entrepreneurial ecosystems in the world have significant positive impacts on the economies and societies in which they operate, fostering innovations and economic sectors, and generating quality employment. At the same time, online firms involved in e-commerce (e-business) should understand the importance of humankind in its continuous existence. [4]

# Chapter 8

## Lesson Learned

### 8.1 Problems Faced During this Period

Considering my experiences from academic years being a student majoring in Computer Science Engineering I could learn a lot about theoretical implementation and planning. I had no idea about the corporate life. But after joining DigiKrew as an intern I got the opportunity to work and deal with the real life problems and urge to solve the problem. I got insight into professional practice. The demand for practical work experience has no other alternative in today's job market. An internship is a great opportunity to achieve this experience .DigiKrew is a startup company. But within a short time they managed to earn trust of a lot of corporate companies as their clients. In the whole period I learned a lot of things that I couldn't in my academic life. I know how to work with the team in a software company and how to communicate with other team members doing the project work together with time limitations. The most interesting part that I enjoyed and loved to do is meeting with the clients and gathering requirements. During my internship period as an intern and a new employee I had faced a lot of problems and difficulties and I am fine with it as the area was totally new to me. Below I have pointed out few major problems that I faced ; The first and foremost challenge was to be punctual in the office. Secondly, coping up with the old members of the company. Thirdly, to learn more about the rules and regulation of the company fourthly, to learn more about the existing projects which were already built and analyzing them. Fifthly, meeting with new clients and converting their speeches, words, desires into a documented requirement and then confirming it from them. As DigiKrew is a startup company and they were short with employees, I was sent to client's office on weekends which was very hectic for me. Learning to fix bugs which were not much possible for me as the company used to develop project with a different language which was not taught in my academic year. Last but not the least, being a junior developer was a bit worrying for me.

## 8.2 Solution of those Problems

In my academic years I was taught to solve theoretical problems. But in my internship period I had to solve real life problems which were somewhat difficult for me. The projects I have completed in my courses were course based but here in my office every project was a product needed to be top notch and for client purchased. As I mentioned few problems above, I could solve those with an aim to furnish myself for real life. I promised myself that to shine in corporate life I need to be punctual in office, only then I will be able to manage my daily work done in time. Although I was a junior developer, I tried to talk more with the members of the company more to break the ice and cope up with them. I believed that coping up with them was a very important part as without proper communication works can't be completed. There were existing project which were built before me joining. It was tough for me to understand them. So at times I seek helped from my supervisor who is the senior developer of the company. Meeting with corporate clients were a major issue but with more visits I realized that gathering requirements from the clients were the more enjoyable part. Going to meet clients to gather requirements on weekdays were hectic but later the company allowed working from home for at least one day in a week. Laravel was a new language for me, although I could't learn more during my internship period but YouTube helped me a lot. Apart from all the problems which were solved later, I believe I had a successful internship at DigiKrew.

# Chapter 9

## Future Work & Conclusion

### 9.1 Future Works

The project is still developing and need to be improved everyday with new plugins and requirements. As the company said, they will need more features on the website later after they are able to drive customers to the website. One of their pre mentioned requirement is to make the website more appealing but they will let know later after they take reviews from their customers on a daily basis. They also mentioned to add online payment gateway method after they verify their trade license which is not ready yet.

### 9.2 Conclusion

This internship was very successful for me. I have gained new knowledge, skills, and met so many new people. I got insight into professional practice. The demand for practical work experience has no other alternative in today's job market. An internship is a great opportunity to achieve this experience. The internship was also good to find out what my strengths and weaknesses are. This helped me to define what skills and knowledge I have to improve in the coming time. During my internship period, I learned about JavaScript, Bootstrap, laravel etc. Now I know how can make a website. Since, I worked with a developer's team in DigiKrew . Now I know how to work with the team in a software company and how to communicate with other team members doing the project work together with time limitations. The most interesting part that I enjoyed and loved to do is meeting with the clients and gathering requirements.



# Bibliography

- [1] A. Aalam, S. Mishra, S. Sharma, and R. Gupta, “Study & development of e-commerce website,” 2008.
- [2] O. Shoewu, S. O. Olatinwo, and O. O. Omitola, “Development of an electronic commerce web application,”
- [3] S. Balaji and M. S. Murugaiyan, “Waterfall vs. v-model vs. agile: A comparative study on sdlc,” *International Journal of Information Technology and Business Management*, vol. 2, no. 1, pp. 26–30, 2012.
- [4] H. G. Shivani, “A study of ethical and social issues in e-commerce,” *International Journal*, vol. 2, no. 7, 2012.