

LAUNDRY LOOM - AN ONLINE LAUNDRY SERVICE

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

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DAFFODIL INTERNATIONAL UNIVERSITY

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APPROVAL

This Project titled “**Laundry Loom - An online laundry service**”, submitted by Abul Hassan Marju to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on January 2024.

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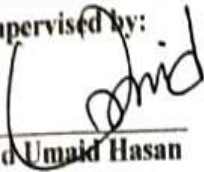
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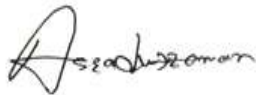
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ABSTRACT

The online laundry platform "Laundry Loom" provides the newest technology for washing, dry cleaning, and laundry. The system's use is adaptable. Our services leverage the expertise and experience we've amassed over the years to provide you with clean clothes as soon as feasible. Because it has partnered with the greatest laundrettes in the country, it provides free pickup and delivery of your filthy laundry. Using our website, mobile app, or hotline number, you can easily schedule an order and we'll handle the rest. Laundry Loom is an improvement to living, not just a service. Take back your valuable time, say goodbye to the laundry blues, and enjoy the convenience of having clean clothes delivered straight to your home.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

The first online laundry platform in DIU, Laundry Loom offers the newest washing, dry cleaning, and laundry technologies. Our services combine the knowledge and experience we've accumulated over time to deliver clean clothes to you as quickly as possible. It offers free pickup and delivery of your soiled laundry because it has teamed up with the best laundrettes in the nation. You may simply schedule an order via our website, mobile app, or hotline number, and we'll take care of the rest!

1.2 Motivation

As bachelor students we face many problems in real life. Most of the time students are very busy with their studies and skill development. They don't find enough time to clean their clothes. As everyone is busy with their professional life, getting online laundry service at their doorstep makes life hassle free. Clean clothes are enhancing personality of a person.

In real life, as bachelor's students, we deal with a lot of issues. Students are usually rather busy studying and honing their skills. They struggle to find time to launder their clothing. Since everyone is preoccupied with their work, having an online laundry service delivered right to their door simplifies life. A person's personality is enhanced by wearing clean clothes.

In contrast, the system gives customers a delivery token so they can pick up their purchases. Additionally, this technique takes a lot of time and eventually lowers the level of service quality. For the convenience of customers, Laundry Loom offers special help in the form of on-demand, dry cleaning, express, and subscription-based laundry services.

1.3 Objective

- The project's goal is to target to develop an online laundry platform that will help students save time by providing dry cleaning, ironing, and laundry services.
- The aim is to offer customers free laundry pickup for their dirty clothes and prompt delivery of clean laundry.
- To offer services to customers including dry cleaning, expedited laundry, on-demand laundry, and subscription-based laundry.
- to care for consumer clothing using gentle, environmentally friendly detergents, which preserves cleanliness and offers items a new lease on life.
- To deliver on our promises to clients in a consistent, trustworthy manner, build a positive reputation with them, and win their loyalty by offering a socially conscious service.

1.4 Expected Outcome

- If the project is carried out successfully, the following results should be obtained
- Through an online platform service, students will be able to wash, iron, and dry clean their soiled clothing right at home.
- Students will be eligible for complimentary pick-up and delivery services.
- Students will receive services according to their own schedule.
- On a reliable site, students will be able to guarantee their correct service.
- The level of end-user service will always be maintained by this system.

CHAPTER 2

BACKGROUND

2.1 Introduction

One of the services that everyone needs is laundry. The majority of students these days attend college and are unable to wash their own clothing at home, and the expense of hiring staff is also rising daily. Many people who lodge in dorms or hostels lack the means to launder and press their clothing. Additionally, the prevalence of skin illnesses among people is rising these days, underscoring the need of hygiene. The Daffodil International University Permanent Campus region is home to about 8,000 students. (Include Datta para, Khagan Bazar, Changaong, Paragaong, Boys hostel, and Girl's hostel). A significant portion of this enormous student body lacks the time necessary to launder their clothing.

Laundry is one of the services that everyone requires. Nowadays, most kids attend college and are unable to do their own laundry at home, and recruiting new employees is becoming more and more expensive every day. A lot of people who stay in hostels or dorms don't have access to laundry or ironing facilities. Furthermore, people are becoming sick from skin conditions more often these days, which emphasises the importance of hygiene. There are roughly 8,000 students living in the Daffodil International University Permanent Campus location. (Include Changaong, Paragaong, Khagan Bazar, Datta para, and the hostels for girls, boys, and girls). A large fraction of this massive student body does not have the time to do their laundry.

It would be quick, simple, and convenient to communicate with customers. Clothes are washed, pressed, and neatly delivered in a handy bag by doorstep laundry services. Laundry management using an online system has gained popularity, particularly in underdeveloped nations. Individuals who are gone from home for work or school do not have time to wash their soiled clothes. Thus, the first service to consider for those people is online laundry. For the convenience of customers, online laundry services offer special help in the form of on-demand, dry cleaning, express, and subscription-based laundry services.

2.2 Related Work

As of right now, there are no comparable workings with our cloud-based Sheba.xyz & smartlaundry.com concept. There are one or two systems similar to ours that are primarily used in our nation for generalizing the laundry loop and storing it in a safe cloud storage for later use.

Our goal is to develop an online application that offers Laundry Loom a quick and user-friendly interface. The creation of a platform independent is the primary goal of the effort. Web application that uses a web browser alone to manage and distribute electronic documents. The idea is to develop programmed that can function without printing versions of documents.

Still, there is some work to be done, such as building a dashboard, processing orders, and setting up a mechanism for customers to register and log in. Sheba.xyz offers a laundry system that is referred to as "A smart laundry system." Numerous services are offered via this system, including house cleaning, appliance repair, washing, and moving. Additionally, this system offers delivery and pickup services. However, they have tacked on additional fees for this service.

They have contributed to a large area and large corporate goals. However, we aim for a little campus space in order to provide a small benefit to the students.

2.3 Comparative Studies

Examining one or more developed systems against other developed systems is known as comparative studies. The system's similarities and differences are listed here. The most significant component of any project is these investigations.

It assists us in appreciating the special qualities of the current system and in determining its appropriate fix. Here are a few case studies of our present setup:

- **Case Study 1: DASHBOARD:** according to this study, is "a display or visualization of the highly important information which is used to fulfil necessary objectives, which is consolidated and displayed on a single screen so that all the necessary information can be monitored at once."

Dashboards are an information display which is predominantly visual that is used to monitor current scenarios at a glance so that a timely response can be given and hence are single-paged, glanceable visuals of data.

- **Case Study 2: ORDER PROCESSING:** Laundry Loom was fully contracted by the customer to handle the order management process. Validation of online orders, order tracking, order placement, refunds, product inquiries, management of exceptions, such as order cancellations or alterations, and other customer service-related tasks, were all included in this procedure.
- **Case Study 3: SERVICES:** The research framework proposed in this study will allow for the comparative analysis of customer satisfaction and service quality across all system components. It uses the structural equation modelling approach to analyse and compare the patterns of service quality and customer satisfaction because different consumers require various services.

2.4 Scope of the Problem:

For students who live in and around the university region, our services are primarily focused on the university. Students residing in the designated area will benefit from the service by

saving time and effort that they can use for other pursuits. We'll make sure that the products they've been assigned arrive on schedule, saving the user a great deal of hassle.

2.5 Challenges:

Developers have numerous obstacles and difficulties when working on a system. In the process of creating this system, we have encountered a few difficulties. The difficulties we have encountered:

- **Professionalism:** As junior developers, we don't have a lot of work experience. We don't always work with complete professionalism because of this. However, our work is solutionable to a grade.
- **Technology Stacks:** Several technology stack types are being used in our Laundry Loom project. For front-end and back-end design, we use React.js, Reactstrap, Material UI, JavaScript (Node.js), Express.js, and so on. For us as a novice developer, those presented challenges. These are our system's main technologies.
- **UI/UX Design:** UI/UX design was another difficult task for us. Since this kind of endeavor is new to us. We actually like participating in this design challenge since it pushes us to be more inventive and efficient.
- **Poor Workstation:** Hardware is consumed excessively when building the system and running the server continually. We have to struggle with our meagre resources.

CHAPTER 3 REQUIREMENT SPECIFICATION

3.1 Business Processing Modeling Here is our business process model:

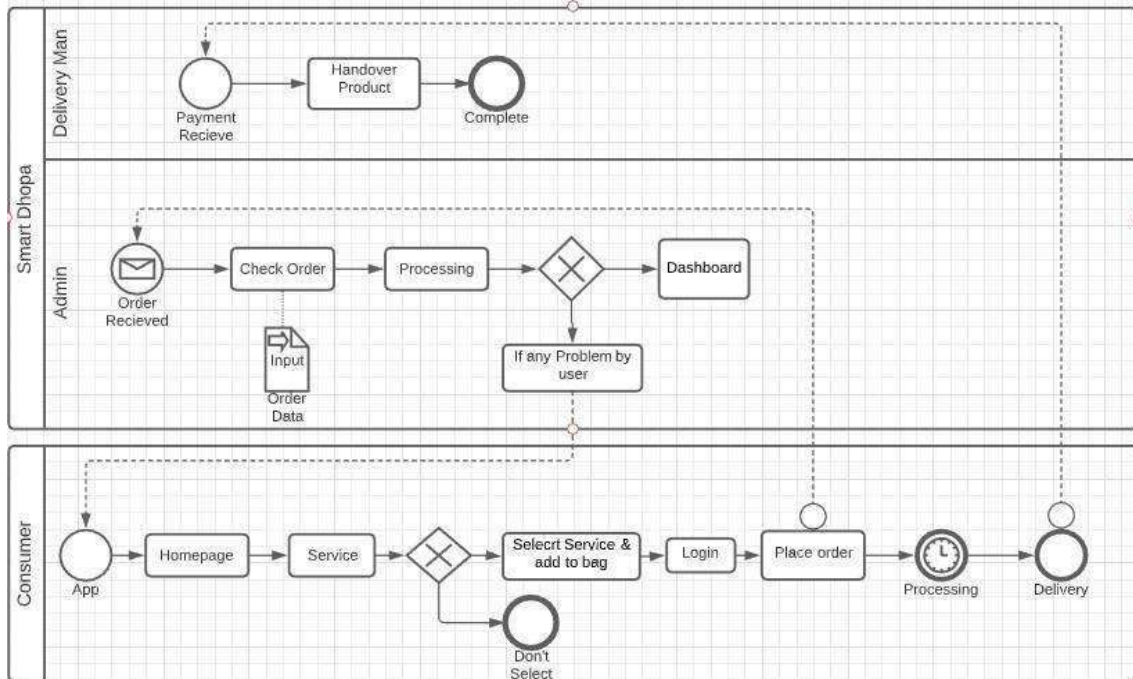


Figure 1: Processing Modeling

3.2 Requirement Collection and Analysis

3.2.1 System Descriptions:

Customers can select any of the six services we offer under our suggested scheme. For students who live in and around the university region, our services are primarily focused on the university. Any item in the items list can be updated, added, or removed here by the admin.

The laundry management system with several services is the foundation of the suggested system. Three categories will contain six distinct services offered by this system. Customers who order more than 100 taka can also receive free delivery services using this system.

With our proposed system, the administrator may track a client's products and keep track of customer details like a delivery token and past order history. Additionally, information about various admin panel overviews, such as the quantity of orders, deliveries, services purchased, and sales reports generated, are provided by the statistical dashboard in the admin panel.

3.2.2 User Requirement Specifications

We will make our suggested system available to pupils. For pupils, this system offers various features. Our system is used by two users. The following describes each user's whole system procedure:

a. Admin User

- A new role, such as editor or moderator, can be added to the system by the admin. The administrator has the ability to edit their own profile.
- Any order details can be updated or deleted by the admin as needed. can also change the time and date of pickup.
- The system can be managed by the admin. A product's name, price, or inventory can be updated, changed, or added by an admin. A product can also be removed from inventory by an admin. Every service will be divided into three categories. They are Accessories, Household, Men's, and Women's Wear.
- An administrative panel will have a statistical dashboard, laundry management, the ability to amend service details, monitor daily activities, and the ability to generate reports, among other features.
- In the admin panel the statistical dashboard will provide statistics over different overview of the admin panel including Number of Orders, Number of Delivery, Purchase services and generated sales reports.
- Laundry Management will be utilized in the admin panel to track a client's products and keep track of customer details, including past order history and delivery tokens.

b. Consumer User

- Users will have three options for registering on a registration form.
- Those are: i) Gmail authentication ii) user name, email, and password iii) Verification via Facebook.
- The login button will be present. Customers who have already created an account can access the website directly by logging in with a legitimate email address and password.
- On a reliable platform, users will be able to guarantee their appropriate service.
- A set of garments to clean will be available in the application's preset menu features. There will be a deal displayed for the fixed menu. Users will choose when they want to be picked up.
- Users need to add their address and contact n users have the ability to increase or decrease the number of goods.
- Users can choose a pickup time and date that works for them.
- On the user dashboard, users can then check order details and display delivery progress details. ● The user can download their invoice at the last minute.

c. System User

- This will be a completely responsive system. One feature of this system will be i) Wash & Iron service.
ii) Cleaning Services
iii) Laundry service with a subscription; iv) Dry cleaning service;
v) Emergency service; and
vii) Iron service
- If the order is greater than 100 Tk, free pick-up and delivery will be offered through this method; otherwise, there will be a Tk 20 fee for product pick-up and delivery.
- The level of end-user service will always be maintained by this system.
- Additionally, consumers will be able to evaluate and review our services through rating and review services.
- When a customer completes their order, this system will immediately generate an invoice and send it to the customer's dashboard.
- Customers will be able to view their service processes through an online Monitoring System feature.

3.3 Use Case Modeling & Design

The Use Case Model is an approach that combines text and images to enhance the comprehension of requirements. A use case model shows how everything external to the system interacts with it in order to represent the entire functionality of the system.

Below is a Use Case Diagram related to this application.

- The online application being developed for this project is designed to oversee an online resume building system.
- Actors: Three actors are involved: i) the Administrator; ii) the Consumer; iii) The Delivery Man

3.3.1 Use Case Modeling and Description

The different functionalities that the system must serve are depicted in the use case diagram that follows. Let's begin with the admin user first

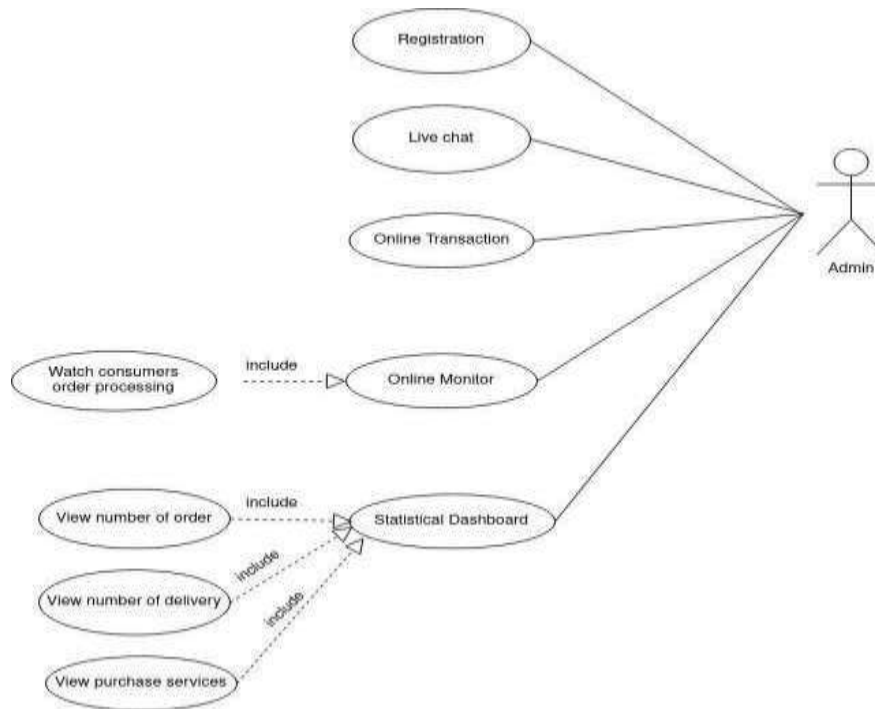


Figure 2: Use Case Diagram Admin

Use Case Diagram Admin: Use Case Diagram Admin connected with Registration, live chat, Online transaction, Online monitor, Statistical Dashboard, watch Consumer order processing include with Online Monitor and view number of orders, view number of deliveries, view purchase services include with Statical Dashboard.

Use Case 1: Consumer

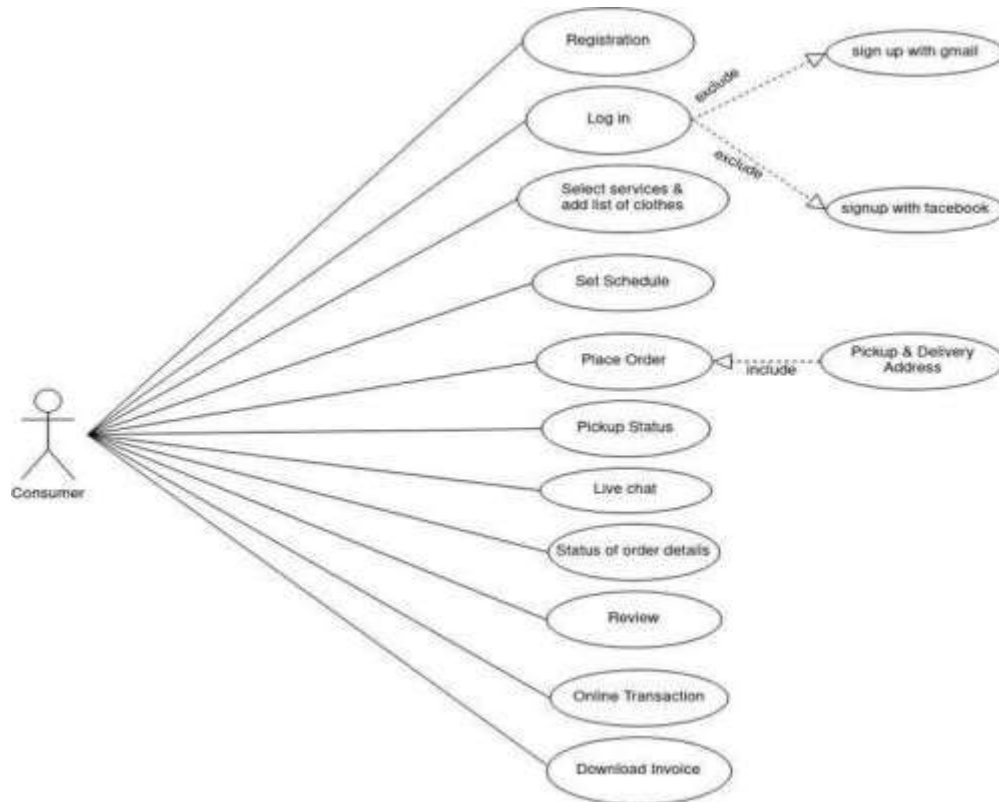


Figure 3: Use Case Diagram Consumer

Use Case Diagram Consumer: Consumer diagram provides registration, log in, select service and add list of clothes, set schedule, place order, pickup status, live chat, status or details, review, online transaction, download invoice. Log in provides sign up with Gmail or sign up with Facebook.

Use Case 2: Delivery Man

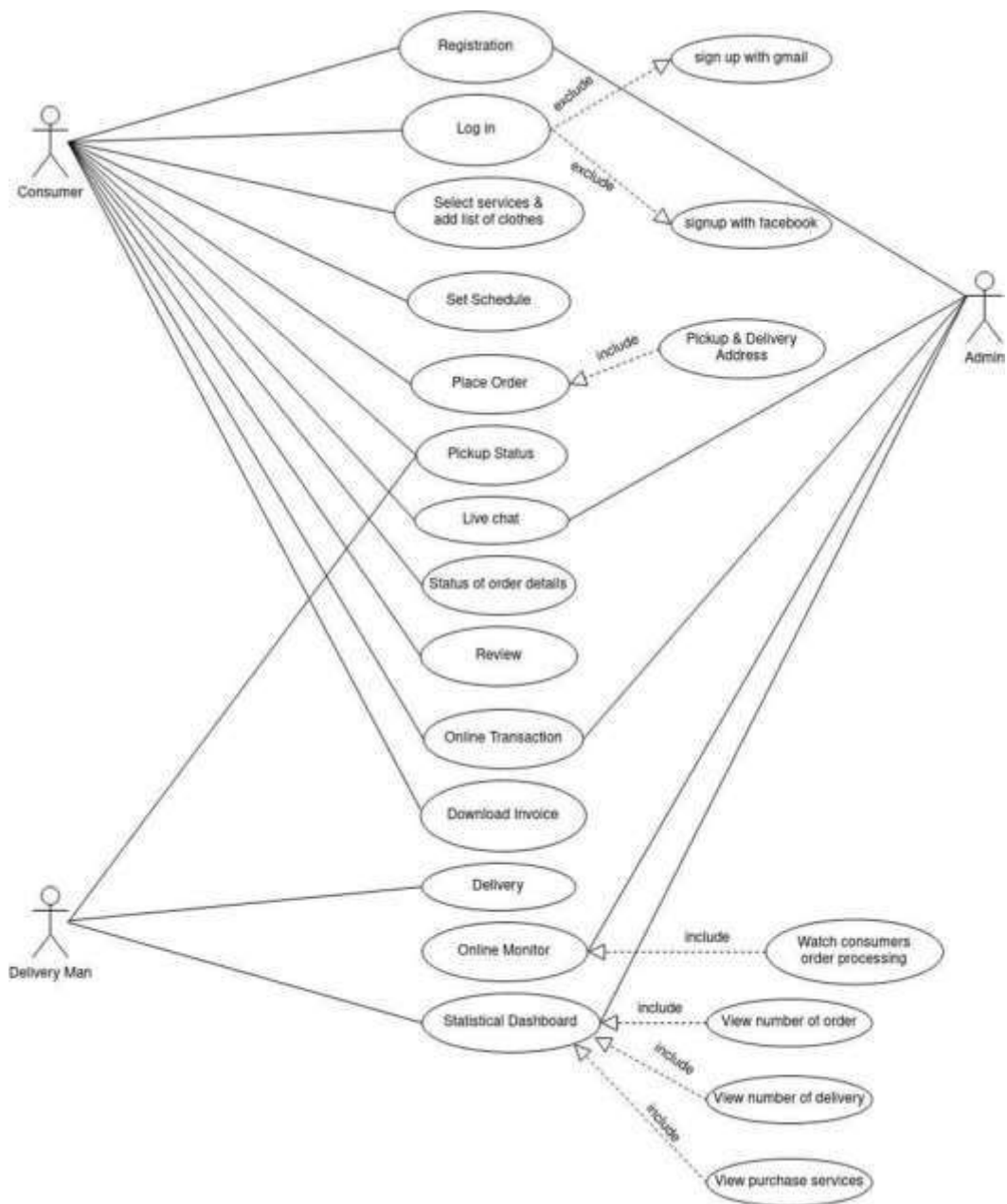


Figure 4: Use Case Diagram Delivery Man

3.3.1 Use Case Description: Consumer User

Table No-1

Criteria	Description
Use Case Name	Registration

Actor	Consumer
Pre-Condition	Visit Website with URL
Flow of Events	<ol style="list-style-type: none"> 1. Consumer click on the “sign up” button. 2. Consumer fill up his name in the user's name input field. 3. Consumer fill up his email address in the email input field. 4. Consumer fill up a strong password in the password input field. 5. Consumer have to re-enter his password in password again input field.
Exit Conditions	A new user account is created.
Alternate flow	<ol style="list-style-type: none"> 1. Please fill the required name Input field with a valid name. This field cannot be empty. 2. Please fill the required email Input field with a valid email. This field cannot be empty. 3. Please fill the required password Input field with a strong password. Password must be an Uppercase, a Lowercase, a number and a special character and at least 8 characters.

Use Case Name	Log In
Actor	Consumer
Pre-Condition	Registration

Flow of Events	1. Consumer click on the “sign in” button. 2.Consumer fill up input field by email & password. 3.Consumer click on “log in” button. 4. Consumer click on the “sign in with Google” button. 5. Consumer click on the “sign in with Facebook” button.
Exit Conditions	Successfully log in
Alternate flow	1. Invalid username or password. 2. Please insert the correct username, password.
	3. Facebook authentication failed. 4. Google authentication failed.

Use Case Name	Select services & add list of clothes
Actor	Consumer
Pre-Condition	Visit website by URL
Flow of Events	1.Select service “Men’s ware / Women’s ware / Household & Accessories. 2.Select option “ Go-to-Another” service. 3.Select item & click “add to bag” button.. 4.Change the item's quantity & review your bag. 5.Go to checkout button for schedule and shipping address.
Exit Conditions	Successfully added item in the bag.
Alternate flow	1. Empty bag Please add items in your bag. 2. Please order minimum amount of 100 taka.

Use Case Name	Set schedule
Actor	Consumer
Pre-Condition	Select services & add list of clothes
Flow of Events	<ol style="list-style-type: none"> 1. Select time & date 2. Change time & date 3. Select “Confirm schedule” button.
Exit Conditions	Successfully set schedule.
Alternate flow	<ol style="list-style-type: none"> 1. Please provide a valid time and date.
Use Case Name	Place order
Actor	Consumer
Pre-Condition	Set schedule
Flow of Events	<ol style="list-style-type: none"> 1. Fill up name & contact number field. 2. Fill up shipping address of (House no./Road no., Address, Area) field. 3. Select “Save Address” button. 4. If user have any promo code then fill the promo code area Checked with “I agree terms & condition”. 5. Select “Place Order” button.
Exit Conditions	Successfully confirm order.
Alternate flow	<ol style="list-style-type: none"> 1. Please provide a valid name and contact number. This field cannot be empty. 2. Please provide a valid shipping address. This field cannot be empty.

3.3.2 Use Case Description: Admin User

Table No-2

Use Case Name	Online Monitor
Actor	Admin
Pre-Condition	Delivery
Flow of Events	1. Watch consumers order processing. 2. Admin will always be able to monitor the progress of consumers products. 3. Admin can check consumers product information.
Exit Conditions	Monitor progress of consumers order.
Alternate flow	Can't monitor due to missing data of consumers product.

Use Case Name	Statistical Dashboard
Actor	Admin
Pre-Condition	Online Monitor
Flow of Events	1. View number of order. 2. View number of delivery. 3. View purchase service. 4. Generate sales report.
Exit Conditions	Get a full overview of statistical dashboard.
Alternate flow	Not found data of consumers order information.

3.3.4 Use Case Description: Delivery Man

Table No-3

Use Case Name	Delivery
Actor	Delivery Man
Pre-Condition	Status of Order Details
Flow of Events	1. Delivery Man will deliver the product. 2. Delivery Man deliver products to the shipping address. 3. Consumer will receive the product.
Exit Conditions	Successfully delivered product.
Alternate flow	Delivery delayed due to product wash & iron failure.

3.3.5 Activity Diagram

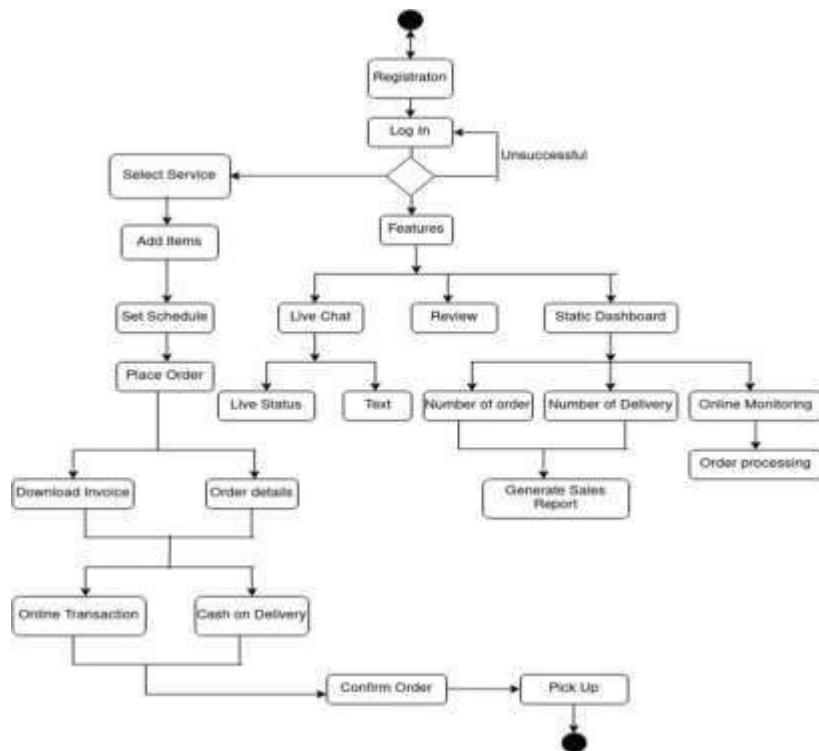


Figure 6: Activity Diagram

3.4 Design Requirements

Performance: Our technology is sufficiently fast and incredibly easy to use. It responds to each user in a target operation very quickly. Timing is key to performance; it begins with a request made to the system, which it then processes to produce a response. We gauge the effectiveness by looking at both the overall procedure and reaction time.

Reliability: Both stability and security will be dependable in the suggested system. In the future, the system will be hosted on cloud (Amazon Web) services.

Security: The system did not gather any personal information from its users and would never reveal any user's personal information. The database will use encryption to protect user data.

Portability: The system is portable thanks to web applications and cloud services, allowing users to use it from any location.

Maintainability: Maintainability is the amount of time needed to fix a solution or one of its components, modify it to improve performance or other aspects, or adjust it to a changing environment. Our user interface is incredibly intuitive and makes system maintenance very simple. The data is easier to maintain thanks to the strong backend.

Usability: After logging in, users can use this system. The final user is required to create their account. For ease of comprehension, the system's user interface ought to be designed in a novel way.

Availability: Our web application is accessible online at any time, from any location in the globe, thanks to the cloud service. Our user will have constant access to the data through various applications (Web and Mobile).

CHAPTER 4 DESIGN SPECIFICATION

4.1 Front-End Design

We attempted to achieve the highest possible level of integration between User Interface, User Experience, and Performance in our online laundry (Laundry Loom) management system. For, a better user experience, we therefore devise a way to make the system lighter and have a more straightforward front-end design. Our front-end design will have all the features listed below.

- **Login/Logout:**

- a. **Login:** Definitions of user names, passwords, and access roles—such as the administrator role, user role for consumers, delivery guy, and admin—must be contained on the host server. The definition will only be shown locally on the host server and at the user's location. The login will either work or not something go wrong, the standard authentication page will show. There must be a way to cancel the login. In the event of cancellation, the home page will appear. If the login attempt fails, the login screen will reload with all fields empty.
- b. **Logout:** Following a successful login, a logout control will be present on all pages that are presented after the user's dashboard, home page, and login page are displayed.

- **Dashboard:**

Following login, the user is shown an interactive page with his order history. The dashboard displays the user's order details as well as the day, date, and percentage of orders placed. When the user clicks the "view details" button, a modal window containing the user's order details is displayed. The user can download or print that information.

- **Bag:**

In the navigation menu, there is a "Bag" option. The user will be directed to a new page by clicking. The user can view the things that have been added to or chosen for his bag or shopping cart on this page. From here, the user can change how many of the desired items he wants. It displays the costs of the selected item's subtotal, delivery charge, and grand total. From this page, the user can change the delivery and pickup status. Additionally, the user can check out his order.

- **Services:**

The user will be presented with a page outlining all of the services when he clicks on the service option. Each service has a "select service" button that can be clicked to access or retrieve more information about it. Additionally, the user can see the services' reviews and ratings.

By choosing user services, a user will be able to see the specifics of the services, get an idea of how to place an order, and ultimately obtain the services he requires with ease.

ReactJS: An open-source JavaScript package called React.js is used to create user interfaces especially for one-page apps.

It is employed in managing the visual layer of mobile and online applications. We can also make reusable user interface components with React. A declarative, effective, and adaptable JavaScript library, React is used to create user interfaces. The letter "V" stands for MVC. Simple objects can be created at low cost to construct React elements. The DOM is updated to match the React elements by React DOM. This is because JavaScript executes extremely quickly, making it worthwhile to maintain a DOM tree in order to expedite its manipulation. React was designed with the browser in mind, but it can also be used on a server with Node.js thanks to its architecture.

4.2 Back-End Design

Our programmed uses a contemporary Universal programmed architecture, allowing server-side rendering of both our front-end application and its assets. The frontend and backend of the application are its two main components. The request is mostly handled by MongoDB via the node.js webserver when a user sends it; node.js then passes it to the frontend react.js via express.js, which receives it and locates the required resources and components. Currently, the express.js backend application receives an API call from the react application, which requests the data needed to render the page. The data is retrieved from the database (MongoDB) and sent to express.js as a JSON response by the backend application (express.js) in response to the API call. At last, React will get the data and use these to render the state.

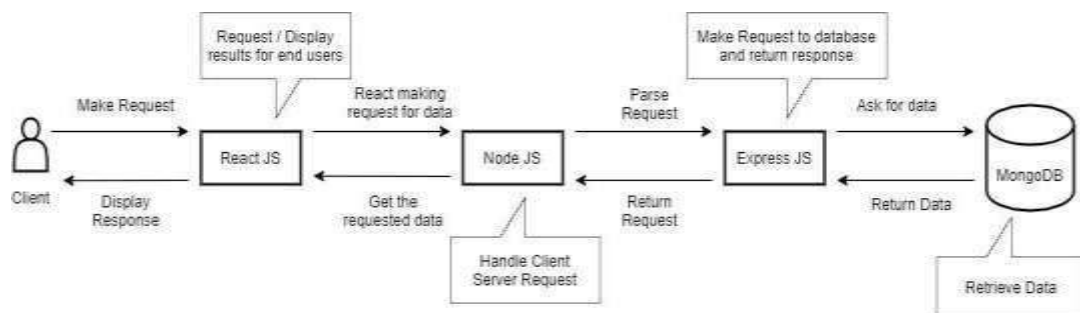


Figure 7: Request and Response flow diagram of the application

NodeJS: A cross-platform, open-source back-end JavaScript runtime environment called Node.js allows JavaScript code to be executed outside of a web browser. Node.js's single-threaded architecture makes it ideal for non-blocking, event-driven servers. While it was created with real-time, push-based architectures in mind, it is utilized for both conventional websites and back-end API applications. The V8 JavaScript engine powers Node JS and browsers alike. Node JS is a lightweight and efficient I/O system because it uses an event-driven, non-blocking architecture. Single threaded event loop architecture is used by Node

JS applications to manage concurrent clients reacting to these events is the foundation of everything in Node.

ExpressJS: A free and open-source web application framework for Node.js is called Express.js. It is used to rapidly and simply design and construct web applications. Web browser-based web applications are known as web apps. Libraries are available to work with a wide range of topics, including security headers, POST data, URL parameters, cookies, sessions, and user logins.

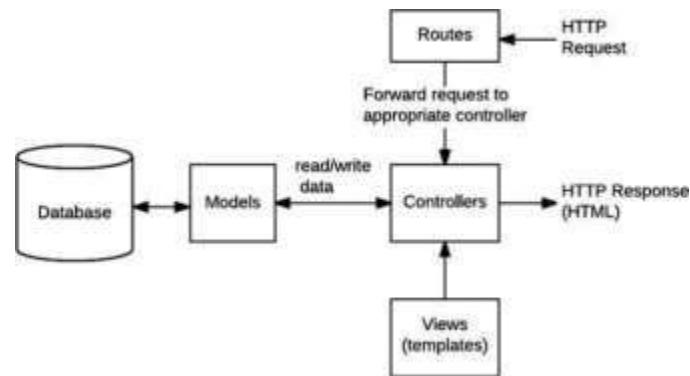


Figure 8: Express.js design pattern

Firestore and JavaScript Web Token Authentication: To authenticate users to your project, Firebase Authentication offers ready-made UI libraries, backend services, and simple SDKs. Passwords, phone numbers, well-known federated identity providers like Google, Facebook, and Twitter, and other methods are supported for authentication. Users that sign in with their email addresses and passwords can be created and managed using the Firebase Authentication SDK. Email password reset requests are likewise managed by Firebase Authentication. Integrate with federated identity providers to authenticate users.

An Internet standard known as JSON Web Token allows data to be created with an optional signature, optional encryption, and a payload of JSON containing several claims. Either a public/private key or a private secret is used to sign the tokens. In order for it to function, the user's identity is certified by the server, which then issues a token to the client. For each future request, the client will provide the token to the server, allowing the server to verify that the request is coming from the specified identity.

4.3 Interaction Design & UX

The laundry loom system has the most appealing and straightforward interaction design. It is quite simple for the user to operate and use. The style is a modern, flat user interface.

A simplistic user interface is used. Using certain parameters, the user experience is constructed. The user interface offers complete satisfaction in terms of usage, accessibility,

and enjoyment. When utilizing or interacting with the system, no such issue, abhorrent task, or interaction was discovered. System interaction design, graphic design, information architecture, user research, and other fields are all included in this field, which is focused on all aspects of the total user experience.

Reactivity is the most practical aspect of the technology we designed. The UI can be fixed to have the highest possible display resolution. With a web browser built on Android, the system is suitable for mobile use.

4.4 Implementation Requirements

The system will be developed using the following technologies:

a. Web Development Technology:

Operating System: Ubuntu 16.04

Web Server: Node.JS

Language Platform: JavaScript

Backend Framework: Express.JS

Frontend Framework: React.JS

UI Component: Material UI, ReactStrap, Now UI

Database Server: MongoDB

Hosting: Firebase, Heroku

IDE: Visual Studio Code

Tools: Github, Trello, Draw.io

b. Web Server Configuration (VPS):

Processor: 1 Virtual central processing unit

RAM: 2GB RAM

Storage: 5 GB SSD

Transfer Rate: 500 GB Monthly Transfer

CHAPTER 5 IMPLEMENTATION & TESTING

5.1 Implementation of Front-End & Design

The developed system features a flat, minimalistic style that is incredibly simple to understand for users. Therefore, it is too simple to use and engage with the UI and UX. However, we don't sacrifice design in the name of optimization. The system has a very appealing appearance. The created system's front-end design and implementation are depicted in the figures below.

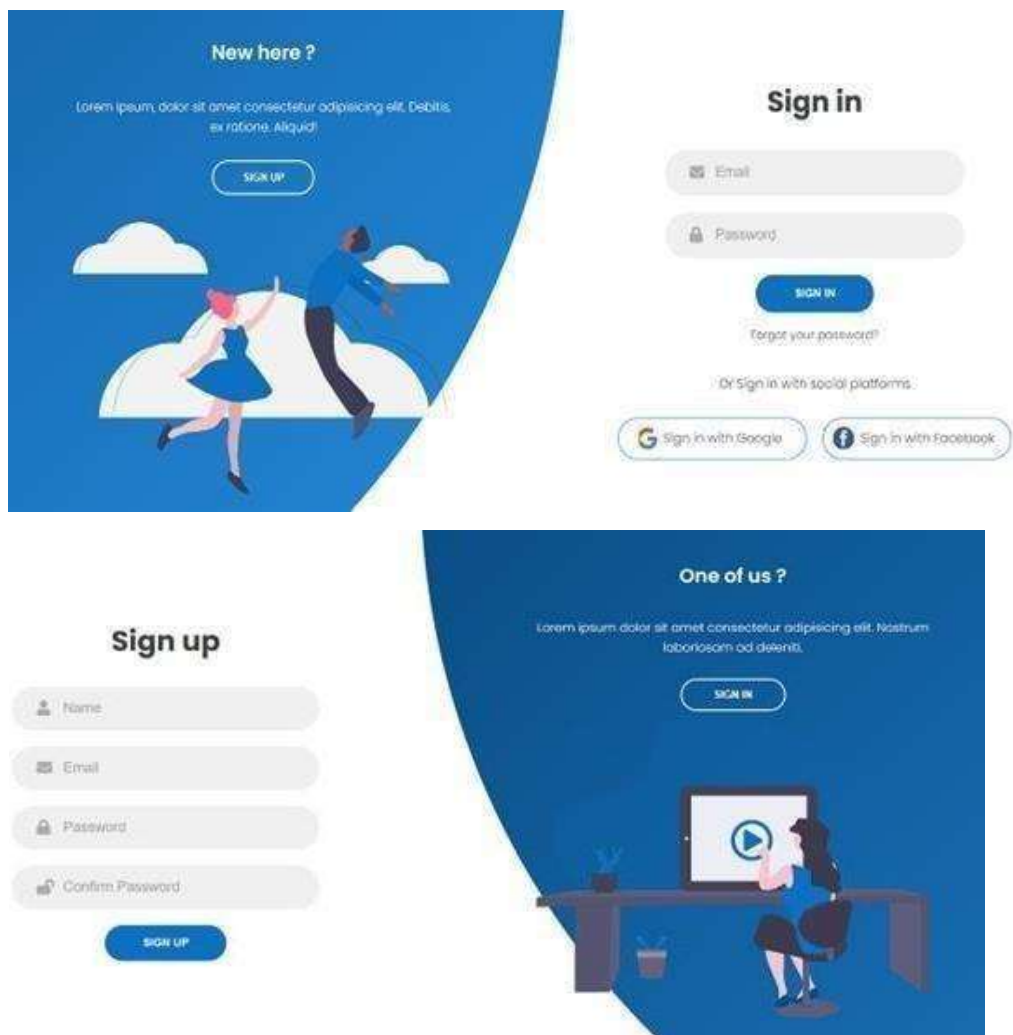


Figure 9: Registration Page

Registration Page: In this page we need to fill up email and password for authentication for sign button to access the account. For sign up button which needs name, e-mail, password and confirm password.



Figure 10: How it works

How it works: This figure displays how it works by selecting service, place order, set schedule, pickup, wash and iron.

Why Choose Us

Free Pickup & Delivery

Doorstep Pickup and Your clothes will be delivered at your doorstep on time and as fresh as day.

Hygienic

Your clothes are hygienically washed so they are germ free and clean. The way you think about laundry.

Affordable

No Additional Cost! You pay just as same as the price set by your selected laundry vendor.

Eco Friendly

Local residents love on our reliable laundry & dry cleaning services for the fast, accurate, top quality results.

Quality Guarantee

We are professionals in the laundry business, which means we always up to date on the latest technologies.

Transparent Pricing

In Affordable price our services in the same budget or less than any other local laundry services near you.

Figure 11: Why Chose us

Our Services



Wash & Iron

All your regular wear garments will be washed, steam ironed and neatly packed for delivery.

[> Select Service](#)



Wash & Fold

Just in case you choose not to use our steam ironing services we will wash and fold them for you.

[> Select Service](#)



Iron & Fold

Get back your dirty clothes. Your clothes we will iron and pressed to look the best for you.

[> Select Service](#)



Dry Cleaning

All your sensitive and special garments will be individually treated for any stains and dry cleaned.

[> Select Service](#)



Emergency Service

You can use our emergency service to receive services easily and quickly in our machines using very safe.

[> Select Service](#)



Subscription Based

You can get Best Price, Quality Service, Doorstep Pickup & Delivery Service, Hygiene & Fresh Laundry

[> Select Service](#)

Figure 12: Services



Figure 13: Review & Rating

Review & Rating: Review and rating figure just shows some review and rating.

Contact Us

Full Name

SAY HELLO

Get in touch, send us an email or call us

Our Vision is to -clean laundry in the shortest possible turnaround time

Questions? Enquiries? Suggestions? Existential doubts? Our teams are ready to hear about them!

+88019-6380-79309

laundryloom.support@gmail.com

Follow us on [f](#) [@](#) [v](#) [in](#)

Email Address

Phone Number

Your Message

Figure 14: Contact us

Contact us: Consumer can contact us by giving their full name, e-mail address, phone number and they can message us

Wash & Iron Service

Want to go another service?

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; align-items: center;"> Men's Wear </div> <div style="font-size: 1.2em;">▼</div> </div> <hr/> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; align-items: center;"> Women's Wear </div> <div style="font-size: 1.2em;">▼</div> </div> <hr/> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="display: flex; align-items: center;"> Household & Accessories </div> <div style="font-size: 1.2em;">▼</div> </div>	<div style="text-align: center;"> <p>Your Bag</p> <p>Total Item: 0</p> </div> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Sub Total</td> <td style="text-align: right;">₳ 0</td> </tr> <tr> <td>Delivery Charge</td> <td style="text-align: right;">₳ 0</td> </tr> <tr> <td>Grand Total</td> <td style="text-align: right;">₳ 0</td> </tr> </table>	Sub Total	₳ 0	Delivery Charge	₳ 0	Grand Total	₳ 0
Sub Total	₳ 0						
Delivery Charge	₳ 0						
Grand Total	₳ 0						

Figure 15: Service Page

Service Page: Service page contain separately men's wear, women wear, household and accessories.

How to order

- Select Service**
 From the category, select the service you are looking for.
- Set Schedule**
 Select your convenient time slot.
- Place Order**
 Confirm your order by clicking "Place order".

Terms & Condition

- After service completion you have to pay through online or Cash on Delivery.
- Price may differ due to product fabrication and measurement of their length. It will be based on our respective Service Provider's inspection.
- Service Delivery time might extended or changes due to product fabrics as in leather Jacket, Carpet etc.
- Delivery time also might changed upon transportation crisis like strikes and road blocks.
- Minimum Order Amount is BDT 100 for free pick and drop service, otherwise you have to pay additional BDT 20 as charge.

Details of Services

Laundry Loom help you find laundry service near you and ensure that your clothes are led by professional and experienced Service Providers. Our quality services are quick and simple. Every customer's laundry is washed with extreme care to preserve their clothes' quality. After washing your clothes our Service Providers folds, packs and deliver at your doorstep.

- Trusted, Certified and Skilled Launder.
- Best Product, Best Service.
- Guaranteed Customer Satisfaction.

FAQ of Our Service

- How many days you will take to deliver?
- Will you iron/pack my clothes after washing?
- Will you wash out every stains from my clothes?
- What if I leave my personal items with clothes?
- What if my clothes get missing?

Figure 16: Terms & Conditions, FAQ, how to order

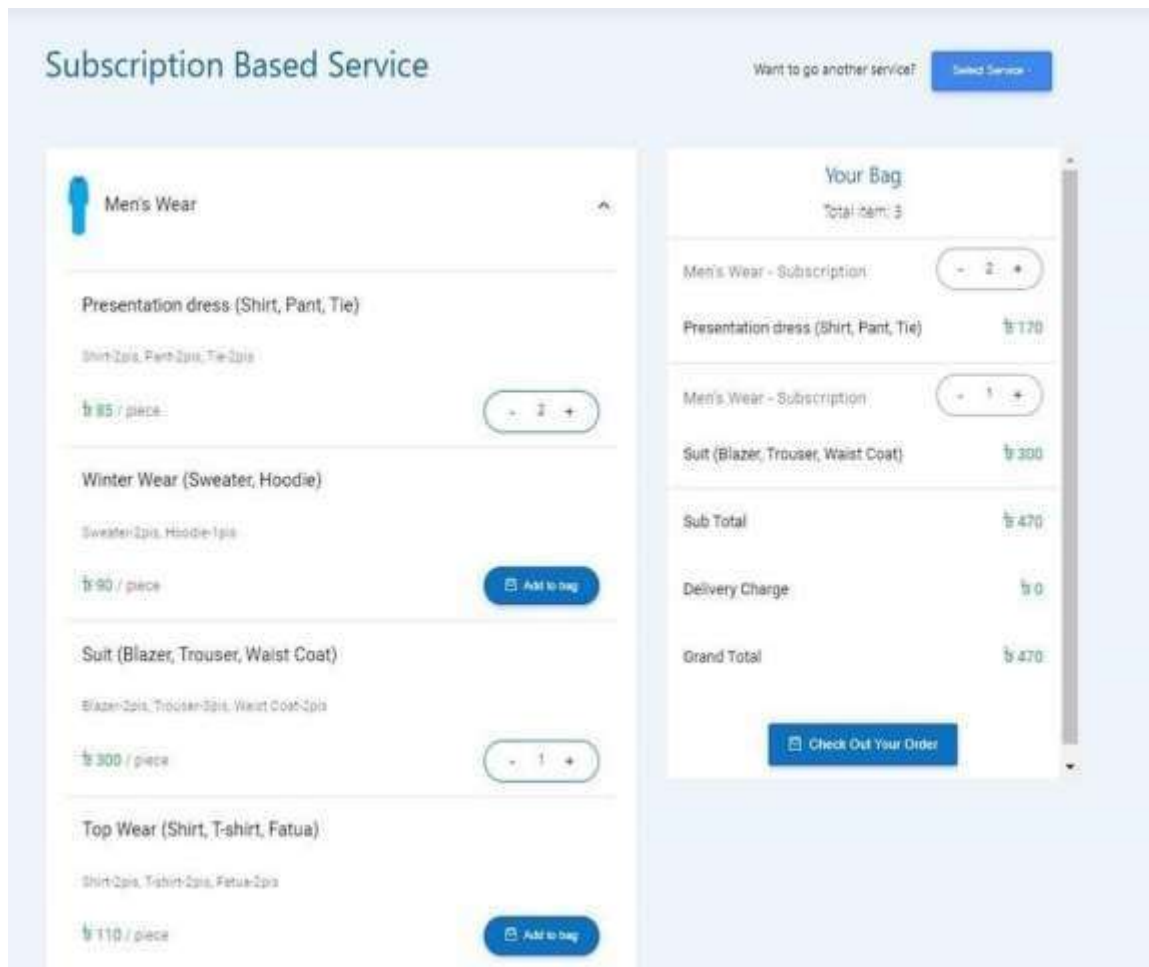
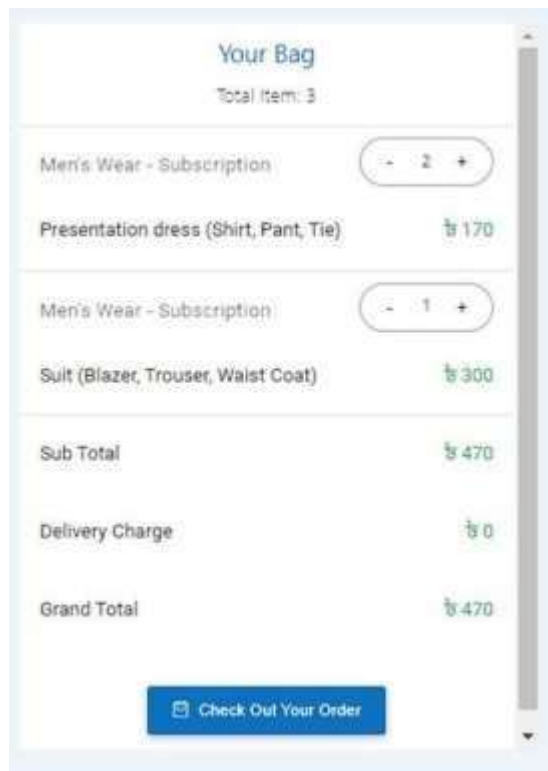


Figure 17: Subscription Services

Subscription Services: In figure seventeen shows subscription-based services.



Expert will arrive at the address given below

Full Name

Name is required

Email

Email is required

Mobile Number

Figure 18: Cart Consumer

Cart Consumer Can add product in cart.

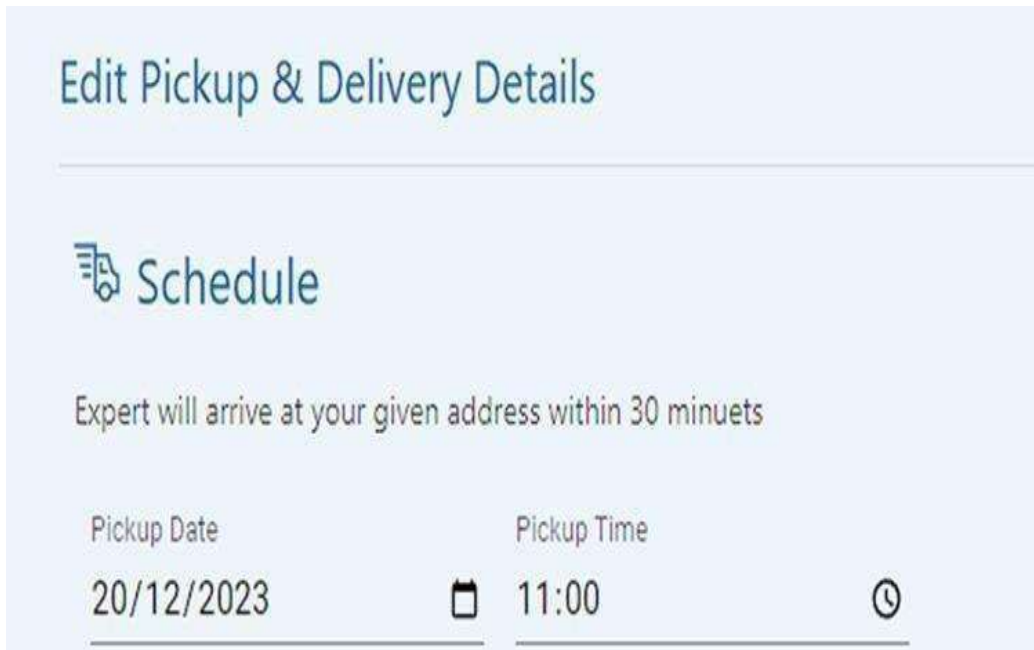


Figure 19: Set Schedule

Set Schedule: Consumer can fix pickup date and pickup time.



Figure 20: Admin Dashboard

Admin Dashboard: Admin Dashboard shows the overview of total order, pending order how many orders completed with total earning and graph shows the weekly completed order.

#	Order	Name	Email	Contact	Date	Products	View	Action
1	43892	Abdulah-Al-Nearin Manuf	abdulah25-256@du.edu.bd	01635746057	Fri Dec 11 2020	4	View Details	Action
2	571012	Priorto Abdulah	priorto77@gmail.com	01790626567	Sat Dec 12 2020	7	View Details	Action
3	292144	Abdulah-Al-Nearin	abdulah25-256@du.edu.bd	01234567809	Mon Dec 14 2020	8	View Details	Action
4	868326	Priorto	priorto50@gmail.com	01635746057	Thu Dec 10 2020	5	View Details	Action
5	316819	Priorto soft	priorto50@gmail.com	01312312312	Sat Dec 12 2020	1	View Details	Action
6	764385	Abul Ali	abul52@gmail.com	01934567890	Sun Dec 13 2020	2	View Details	Action
7	772506	Mofiz Mia	mofiz123@gmail.com	01312312312	Sun Dec 13 2020	5	View Details	Action

Figure 21: Order Details

Order Details.: Admin can see consumer orders.

Services	Category's	Category's	Category's
Wash & Iron	Men's Wear	Women's Wear	Household
Wash & Fold	Men's Wear	Women's Wear	Household
Iron & Fold	Men's Wear	Women's Wear	Household
Dry Cleaning	Men's Wear	Women's Wear	Household
Emergency	Men's Wear	Women's Wear	Household
Subscription	Men's Wear	Women's Wear	Household

Figure 22: Inventory

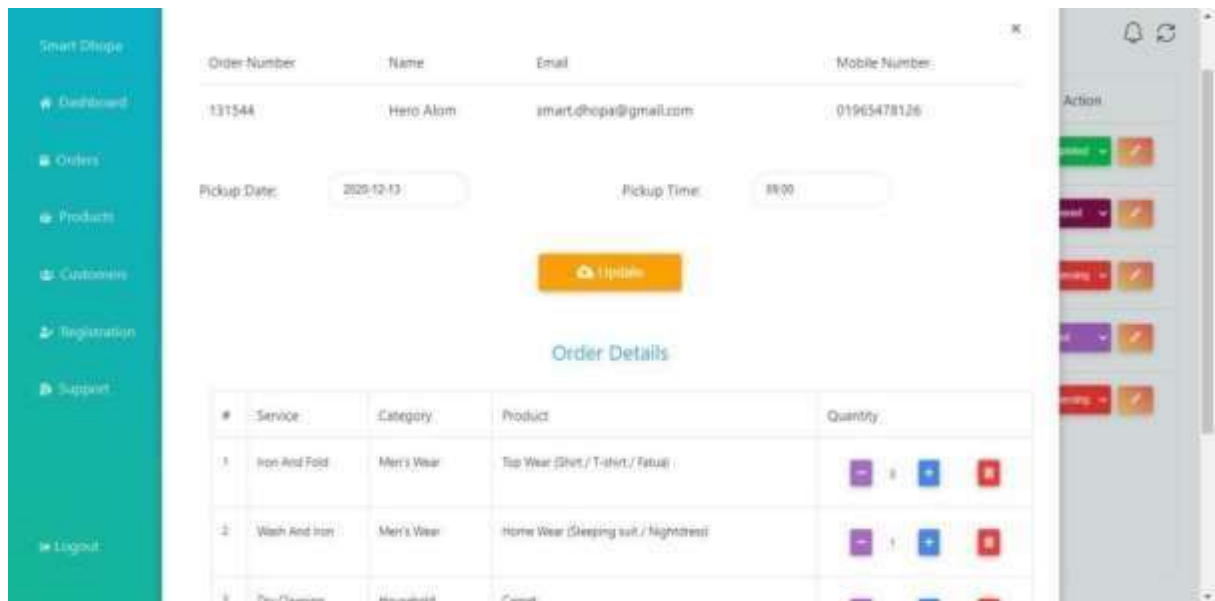


Figure 23: Edit Order Details

Edit Order Details: Admin can edit order details.

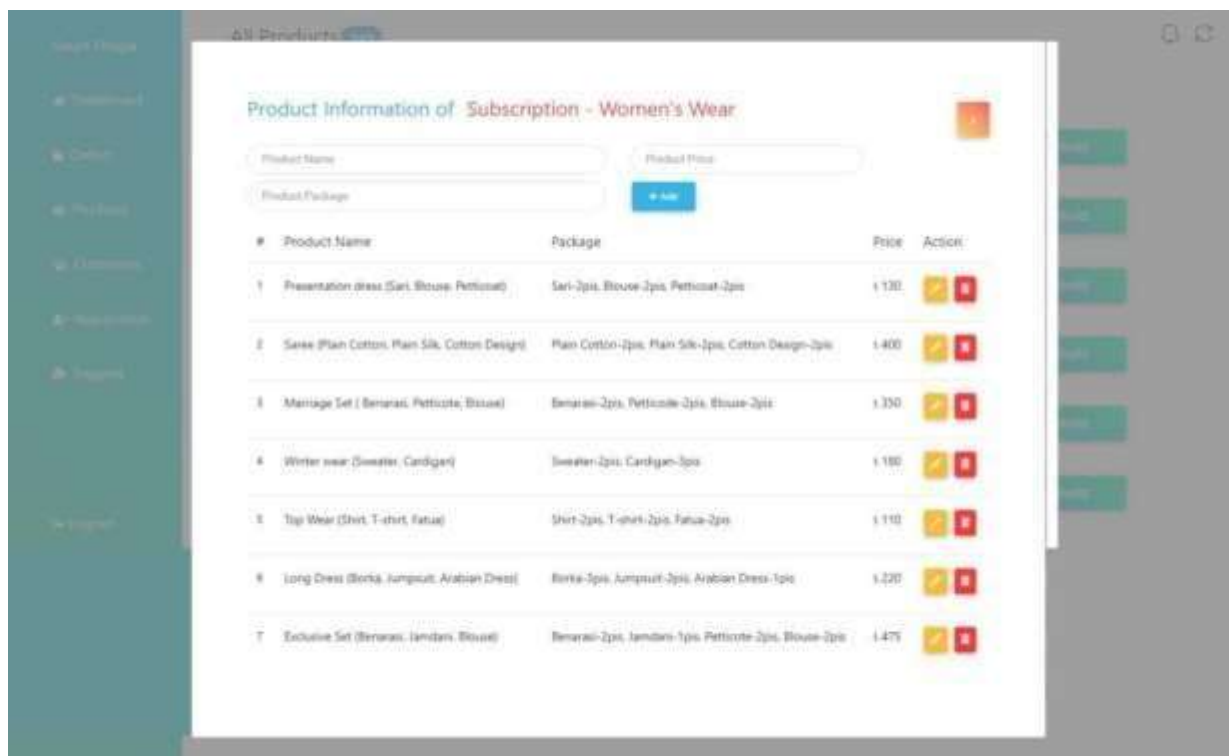


Figure 24: Edit Product Details

Edit Product Details: Admin can edit product details.

5.2 Test Results and Reports

Our project is finished, and it satisfies every need. The Online Laundry (Laundry Loom) technology is flawless, free of glitches and issues with user involvement. The web application has passed testing and no errors have been discovered. The laundry loom results are listed below.

- **Percentage of Accuracy**

Our project operates with perfect accuracy. As we stated in the last chapter, it satisfies every functional and non-functional need.

- **Percentage of Correctness**

Our project is now 100% accurate since we have verified all requirements, created test cases, and fixed any errors

CHAPTER 6

CONCLUSION & FUTURE SCOPE

6.1 Discussion & Conclusion

Future changes to our system can be made with ease because of the way it is constructed. With the newest technology available for laundry, dry cleaning, and washing, this is DIU's first online laundry platform.

Our services combine the knowledge and experience we've accumulated over time to deliver clean clothes to you as quickly as possible. Using this system is not difficult. Users are able to access our system from any platform. Our services are inexpensive, and users can save time by utilizing our method.

6.2 Scope for Further Developments

There is room for improvement in our system to make it more user-friendly for consumers. Our next steps for this system's development will determine its scope.

- **Residential students living areas:** We intend to expand our services in the future to include bachelor's living areas, private college and university dorms, and residential university areas. We intend to expand our services in the future to include bachelor's living areas, private college and university dorms, and residential university areas.
- **Cross platform:** The public demand will drive the introduction of the Android & iOS apps. This will benefit those without computers by enabling those with cellphones to experience the flavor of our platform.

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- [5] Learn more about laundry, from <<<https://www.dhobiwala.com/>>>
- [6] Follow service feature from <<<https://www.isthriwala.com/>>>
- [7] Learn more about laundry system from<<<https://www.laundrocart.com/>>>

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