



**A**  
**PROJECT REPORT**  
**ON**  
**Cloths Reusable Foundation**  
**Submitted for the Partial Fulfilment of**  
**MASTER OF COMPUTER APPLICATION**  
**(MCA)**  
**Part - II Semester -IV**  
**Submitted By**  
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**Under the Guidance of**  
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**TO**  
**THE DIRECTOR**  
**CHH. SHAHU INSTITUTE OF**  
**BUSINESS EDUCATION & RESEARCH, KOLHAPUR**  
**2022-2023**



**CHH.SHAHU INSTITUTE OF BUSINESS EDUCATION &  
RESEARCH, KOLHAPUR**

**CERTIFICATE**

This is to certify that **Ms. Vaibhavi Krishnat Patil (Seat No: 8350 )** has satisfactorily completed the Project work on “**Cloths Reusable Foundation**” developed through “**Java & Angular**” for the partial fulfilment of MCA-I(Sem-IV) submitted to **Chh. Shahu Institute of Business Education & Research, Kolhapur** during the academic year 2022 – 2023.

**Place : Kolhapur**

**Date: 06/11/2023**

**Dr . S.D.Bhoite**  
**(HOD)**

**External Examiner**



**CHH.SHAHU INSTITUTE OF BUSINESS EDUCATION &  
RESEARCH, KOLHAPUR**

**DECLARATION**

I undersigned hereby and declare that the project entitled **“Cloths Reusable Foundation”** Developed through **“Java & Angular”** submitted by me is an original work. The project presented is developed by me independently and is not duplication from any other source. The work is hereby submitted to **“Chh. Shahu Institute of Business Education and .Research, Kolhapur”** for the partial fulfilment of **MCA-II (Sem-IV) Project**.

**Place : Kolhapur**

**Date : 06/11/2023**

**Ms. Vaibhavi Krishnat Patil**



## CHH.SHAHU INSTITUTE OF BUSINESS EDUCATION & RESEARCH, KOLHAPUR

### ACKNOWLEDGEMENT

I have great pleasure while submitting this Project Report entitled for “**Cloths Reusable Foundation**” in partial fulfilment of MCA-II (Sem-IV) while submitting this Project Report, I take this opportunity to thank to those who directly or indirectly related to project work without their active co-operation and guidance it would have become extremely difficult to complete this task in time. At the outset, we keep on giving deep gratitude towards my Project Guide **Prof. S.Nagaonkar mam** who gave me guidance right from the initial stage of project and offered us several valuable suggestions for developing this project in systematic and presentable manner. I am also thankful to our H.O.D.**Dr . S.D.Bhoite** and all the staff members of Computer Department. In the end, I express my gratitude to our friends and parents who inspired me in this work, without their inspiration the work was almost impossible.

## INDEX

<b>Sr .No</b>	<b>Title</b>	<b>Page No.</b>
<b>1.</b>	<b>Introduction</b> 1.1)Introduction to Project 1.2) Modules	<b>6-8</b>
<b>2.</b>	<b>Description of the Current System</b> 2.1)Objectives 2.2)Current System and its Limitations 2.3)Requirement Analysis And Feasibility Study 2.4)Methodology Adopted	<b>9-15</b>
<b>3.</b>	<b>Scope of Work</b> 3.1)Scope 3.2)About Environment /Platform Used	<b>16-23</b>
<b>4.</b>	<b>System Diagrams</b> 4.1) Use Case Diagram 4.2)Data Flow Diagram 4.3)Entity Relationship Diagram	<b>24-27</b>
<b>5.</b>	<b>Database Design</b>	<b>28-30</b>
<b>6.</b>	<b>Input Screens</b>	<b>31-36</b>
<b>7.</b>	<b>Reports</b>	<b>37-40</b>
<b>8.</b>	<b>Conclusion</b> 5.1)Conclusion 5.2)Limitations 5.3)Future Scope of Study 5.4)Bibliography/References	<b>41-45</b>

# INTRODUCTION

## **1.1)Introduction to project:-**

Cloth Share Foundation is a form of electronic commerce which allows consumers to directly buy good or service from the seller over the internet using web browser or mobile app. This site is to sell the old cloths and books or other stationary things.

Here is the place where user can sell their old cloths and earn some money. Even they can donate to the needed one and get some rewards after donating. We share your donation to the NGO and orphanage.

This may sound a bit lame, but it's true; giving really does make us feel good.

There are so many people in the world and in our own neighborhoods around us that are in need.

## **1.2) Module Introduction**

This system we have developed by combining few modules, those are as follows :

### **User Register Form-**

User has to register himself on a system by providing personal information like name, email, password.

### **User Login Form -**

User login by entering username and password into the system.

### **Donation Form-**

To donate, Donar has to enter mobile number, name, location. Donar need to select product image that he want to donate & Upload it.

### **Store Form-**

This form shows all the products i.e. Cloths, Stationary material & Books.

### **Payment Form-**

Here User can make payment by entering his Payment details.



# **Description of the current System**

## **2.1)Objectives**

1. To promote the reuse of old clothes, books, and stationary items, contribute to reduced waste and a more eco-friendly lifestyle.
2. To develop a user-friendly e-commerce platform accessible via web browsers and mobile apps.
3. Users have the opportunity to earn money by selling their old clothes and items.
4. The platform facilitates charitable giving by allowing users to donate their old items to those in need, including impoverished students and children from NGOs and orphanages.
5. The inclusion of rewards for charitable actions can motivate users to participate actively in both selling and donating, reinforcing a culture of social responsibility.
6. To provide educational resources and information about the benefits of reusing and donating old items for the betterment of society and the environment.
7. The project aligns with eco-conscious values by promoting the environmental benefits of reusing items and reducing the carbon footprint associated with the production and disposal of new goods.

## **2.2)Current System and its Limitations**

### **EXISTING SYSTEM**

This system is not much user-friendly as one need to go to the market physically. This platform is where user can sell their olds cloths, books and other stationary things and earns some money.

Even the buyer can also get the product in less amount. User can also Donate their books and cloths to the needed one. This website is to help the poor students or child from NGO and Orphanages who can affords the cloths and others things.

### **LIMITATIONS OF THE EXISTING SYSTEM**

1. Managing the collection, distribution, and quality control of donated items can be logistically challenging, particularly as the platform grows.
2. Users, especially older individuals or those from less technical backgrounds, may face difficulties in using web browsers or mobile apps effectively, potentially excluding some demographic groups.
3. The current system may not have a structured mechanism for users to donate their old clothes and books to those in need,
4. As with any online platform, there are security risks such as data breaches, phishing attempts, and fraud.
5. As the platform grows, scaling up infrastructure and maintaining performance can be challenging without careful planning.

## **2.3)Requirement Analysis And Feasibility Study**

### **REQUIREMENT ANALYSIS**

Since the users of this system are online, user requirement analysis becomes one of the major steps that would ultimately enable the developer to make the system much more user friendly. Various detailed Studies were conducted to analyse the system thoroughly.

Based on the results, various user requirements emerged.

The user requirements can be categorized as follows:

- a. Functional Requirements
- b. Non Functional Requirements

#### **A] FUNCTIONAL REQUIRMENTS:**

All of the following functional requirements are kept in mind for the designing process which would follow.

The functional requirements are as follows:

- a. A reliable and a user-friendly system. The reliability of the system depends on the accurate and efficient information provided by the system.
- b. The user interface must be simple, not complicated and extremely easy to follow.
- c. The proper report format is to be prepared by a discussion with the respective persons.
- d. The system must be developed in such a manner that in the future if the need arises, changes should easily be done.

#### **B] NON FUNCTIONAL REQUIREMENTS**

The System must be compatible with all web browsers and this system will use the default internet securities.

## **FEASIBILITY STUDY**

### **1] Technical Feasibility**

Building this system is technically feasible. The hardware and software needed are all available, it not difficult to get them. This system is very much concerned with specifying equipment and the website will successfully satisfy almost all the user's requirements. In Brief I can say the necessary resources needed for the development and maintenance of the system are available. I am going to use JavaScript and MYSQL database.

### **2] Operationally Feasibility**

The project I am developing is operationally feasible as there is no need for users to have good knowledge in computer before using it. The user can learn and use the system with easiness; he just needs to read the manual or tutorial from the developers

### **3] Economic Feasibility**

Besides being technically feasible, developing this system is economically feasible as well. Economic analysis is most frequently used for evaluation of the effectiveness of the system. The development of the system does not require the developers to spend a lot of money. The tools I will be using to develop the system are not expensive and the software's are open source. All I need is time. Even the maintenance of the system will not be expensive. The system is indeed economically feasible.

## **REQUIREMENT ENGINEERING**

1. How the system saves user data?
2. Is the system user-friendly?
3. Is the system works correctly?
4. Is the system saves valid data?

### **Questionnaires**

Questionnaires mean a set or questions that are given to the user for answering it. We had also formed out questionnaire and they filled it.

1. What type of Books do you want?
2. What kind of difficulties do you face while selling any material.
3. What kind of improvement do expect from our system?
4. What kind of difficulties do you face while using service.
5. What do you expect from our system?
6. Do you want other material/service from us.

## **2.4)Methodology Adopted**

Methodology used to develop system is:

1. Requirement Analysis is done to analyse the requirements of the user.
2. The module is designed as per the requirements of the user.
3. After designing the module, then coding of the Web application is done.
4. After coding, testing of the system to check whether system is working appropriately.

# SCOPE OF WORK



## **SCOPE**

The project involves the development and maintenance of a user-friendly e-commerce platform accessible through web browsers and mobile apps. This platform enables users to engage in buying and selling activities for old clothes, books, and stationary items. Sellers can create detailed listings for the items they wish to sell, including descriptions, prices, and images.

Buyers can browse and search for items based on their preferences. The platform facilitates secure transactions between buyers and sellers, including payment processing, order management, and dispute resolution mechanisms.

Users have the option to donate their old clothes, books, or stationary items to individuals in need. The project manages the collection, distribution, and quality control of donated items.

### **3.1)About Environment /Platform Used**

#### **Java**

##### **What is Java?**

Java is a high-level, versatile, and widely used programming language known for its portability, platform independence, and strong community support. Developed by James Gosling and his team at Sun Microsystems (now owned by Oracle Corporation), Java was first released in 1995.

Below is an introduction to Java and its key features:

1. **Platform Independence:** One of the most prominent features of Java is its "Write Once, Run Anywhere" capability. Java programs can be written on one platform (e.g., Windows) and executed on another platform (e.g., Linux or macOS) without modification, thanks to the Java Virtual Machine (JVM), which interprets and runs Java bytecode.
2. **Object-Oriented:** Java is a pure object-oriented programming language. Everything in Java is an object, including primitive data types, and follows the principles of encapsulation, inheritance, and polymorphism.
3. **Strongly Typed:** Java enforces strong type checking at compile-time, reducing the likelihood of runtime errors. This helps ensure the reliability and stability of Java programs.
4. **Automatic Memory Management:** Java employs a garbage collector that automatically manages memory by deallocating objects that are no longer in use.
5. **Multi-Threading:** Java supports multi-threading, allowing developers to create concurrent and multi-threaded applications.
6. **Exception Handling:** Java has a robust exception handling mechanism that helps developers identify and handle errors in a structured manner, improving program reliability.
7. **Portability:** Java's platform independence and standardization make it an ideal choice for cross-platform development, from desktop applications to mobile apps (Android), embedded systems, and web applications.

# Angular

## What is Angular?

Angular is a JavaScript framework written in TypeScript and maintained by Google. It enables users to develop and test large applications easily. It has surpassed Javascript for developing single-page applications that require modularity, testability, and developer productivity. In this Angular tutorial, you will learn about the different features of Angular, Angular Architecture, its advantages, and its limitations.

## Features of Angular :

1. **Component-Based Architecture:** Angular follows a component-based architecture, where the application is built as a collection of reusable and self-contained components.
2. **Two-Way Data Binding:** Angular provides two-way data binding, which means changes to the application state are automatically reflected in the user interface, and vice versa, without the need for manual DOM manipulation.
3. **Dependency Injection:** Angular has a built-in dependency injection system that makes it easy to manage and inject dependencies into components, services, and other parts of the application.
4. **Routing:** Angular provides a powerful router for managing navigation within a single-page application. Developers can define routes, associate components with routes, and handle navigation events.
5. **Services:** Angular encourages the use of services to encapsulate and share functionality and data across different parts of an application. Services are typically used for tasks like making HTTP requests or managing application state.
6. **Forms:** Angular offers both template-driven forms and reactive forms for handling user input and form validation. Reactive forms are particularly useful for complex forms with dynamic behavior.

7. TypeScript: Angular is built using TypeScript, a statically typed superset of JavaScript. TypeScript brings strong typing and better tooling to the development process, making it easier to catch errors early.
8. Security: Angular helps developers address security concerns like cross-site scripting (XSS) and cross-site request forgery (CSRF) by providing built-in mechanisms for data sanitization and protection.
9. Community and Ecosystem: Angular has a large and active community, which means extensive documentation, a wide range of third-party libraries, and strong community support.

Angular continues to evolve, with regular updates and improvements, making it a popular choice for building modern web applications.

## **Spring Boot**

### **What is Spring Boot?**

Spring Boot provides a good platform for Java developers to develop a stand-alone and production-grade spring application that you can just run. You can get started with minimum configurations without the need for an entire Spring configuration setup.

Spring Boot is an open source Java-based framework used to create a micro Service. It is developed by Pivotal Team and is used to build stand-alone and production ready spring applications.

### **Advantages**

1. Spring Boot offers the following advantages :
2. Simplified Development: Spring Boot simplifies the development process by providing a set of default configurations and sensible defaults
3. Rapid Development: Spring Boot's auto-configuration feature automatically configures various components based on project dependencies.
4. Microservices Ready: Spring Boot is well-suited for building microservices-based architectures. It provides features like embedded web servers and support for building RESTful APIs, making it easy to create microservices and deploy them independently.
5. Production-Ready Defaults: Spring Boot offers production-ready features like health checks, metrics, and monitoring out of the box.
6. Embeddable Web Servers: Spring Boot includes support for embedded web servers such as Tomcat, Jetty, and Undertow.
7. Dependency Management: Spring Boot manages dependencies through the use of the Spring Initializr and Spring Boot Starter dependencies.

# SQL

## What is SQL?

SQL stands for Structured Query Language and is a computer language that we use to interact with a relational database. SQL is a tool for organizing, managing, and retrieving archived data from a computer database.

The original name was given by IBM as Structured English Query Language, abbreviated by the acronym SEQUEL. When data needs to be retrieved from a database, SQL is used to make the request. The DBMS processes the SQL query retrieves the requested data and returns it to us. Rather, SQL statements describe how a collection of data should be organized or what data should be extracted or added to the database.

## What are the characteristics of SQL?

- SQL may be utilized by quite a number of users, which include people with very little programming experience.
- SQL is a non-procedural language.
- We can without difficulty create and replace databases in SQL. It isn't a time-consuming process.
- SQL is primarily based totally on ANSI standards.
- SQL does now no longer have a continuation individual.
- SQL is entered into the SQL buffer on one or more lines.
- SQL makes use of a termination individual to execute instructions immediately. It makes use of features to carry out a few formatting.
- It uses functions to perform some formatting.

### **3.1)About Environment /Platform Used**

#### **SOFTWARE ENVIRONMENT**

- Operating System: Windows 10
- Front-end: Java,Angular
- Back-end: Sql
- Browser: Google Chrome, Microsoft Edge

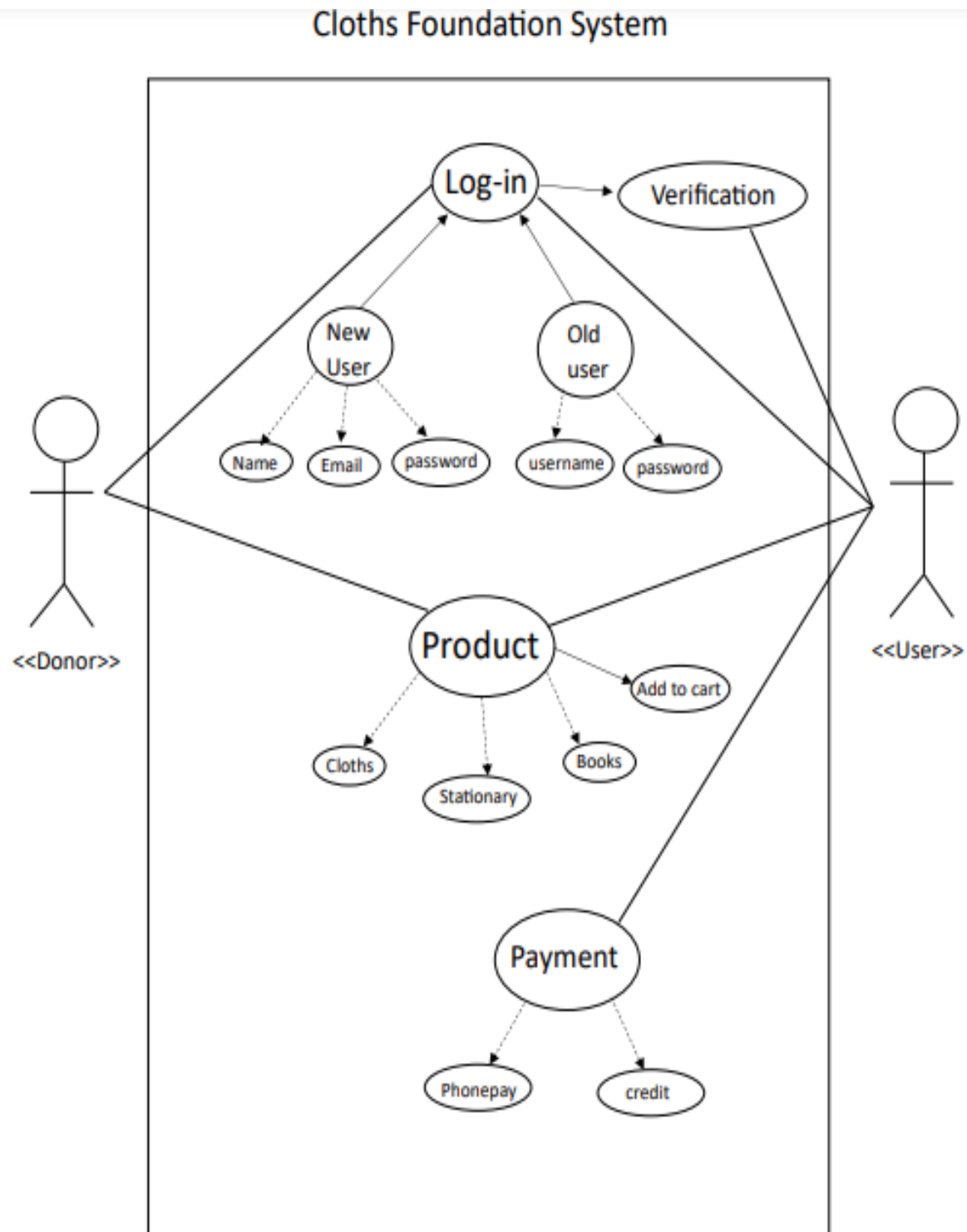
#### **HARDWARE ENVIRONMENT**

- Processor: Intel(R) Core(TM) i5-1035G1 CPU @ 1.00GHz 1.20 GHz
- RAM: 4 GB of RAM
- SSD: 250GB

# SYSTEM DIAGRAMS

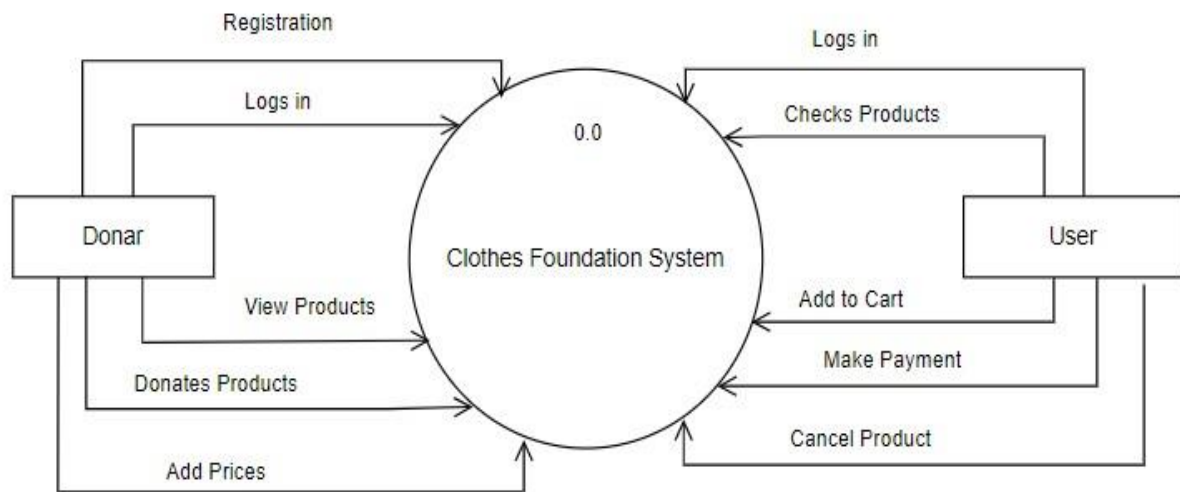


## 4.1) Use Case Diagram

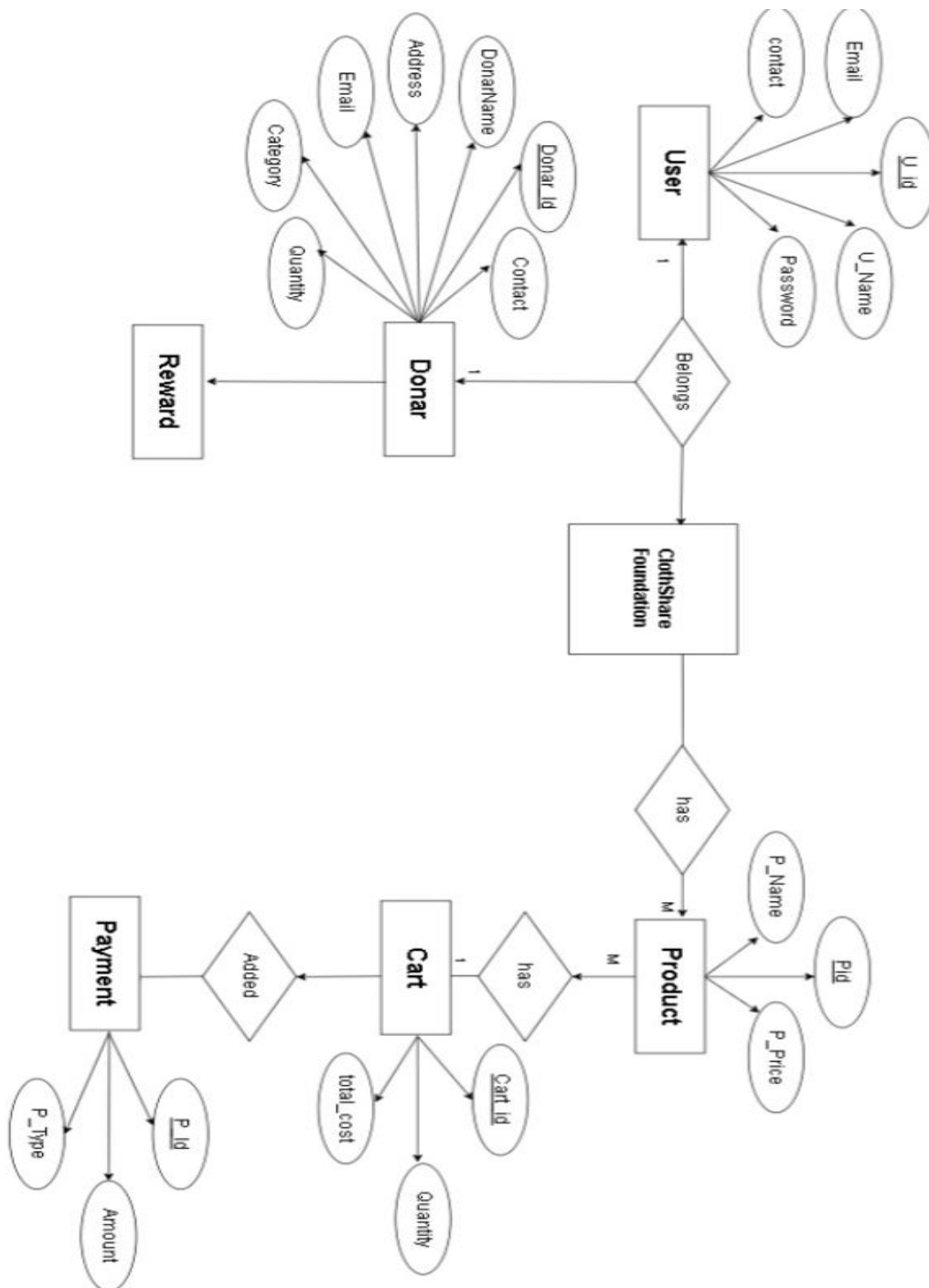


## 4.2)Data Flow Diagram

### 0 - Level Data Flow Diagram



### 4.3)Entity Relationship Diagram



# **DATABASE DESIGN**

## Table Specification :

### Cart

Column_name	DataTypes
Cart_Id	int
Product_Id	int
User_Id	int

### Donar

Column_name	DataTypes
Donar_Id	int
Address	String
Category	String
Contact	long
Donar_name	String
Pic_byte	Byte

## Product

Column_name	DataType
Product_Id	int
Category	String
Image_path	String
Price	int
Product_Name	String

## User

Column_name	DataType
User_Id	int
Contact	long
Email	String
Password	String
User_name	String

# INPUT SCREEN

## Home Page




## User Registration Form

The screenshot displays the user registration form on the Cloth Share Foundation website. The header is identical to the home page. The main content area is titled 'Sign up' in bold black text. On the left, there is a vertical stack of five input fields, each preceded by a small icon: a person icon for 'Enter your name', an envelope icon for 'Enter your Email', a telephone icon for a field containing '0', a padlock icon for 'Enter your Password', and a key icon for 'Confirm Password'. Below these fields is a blue 'Register' button. To the right of the form is a colorful illustration of a person with a speech bubble, surrounded by various geometric shapes and symbols. At the bottom left of the form area, there are two links: 'Register User?' and 'Login here'.



## User Login Form

**CLOTH SHARE FOUNDATION** [HOME](#) [ABOUT](#) [CONTACT](#) [Donate](#) [Store](#) [Registration](#) [login](#)



### Login

**Email**

**Password**

☐ **Remember Me**

[Forgot Password?](#)

[Login](#)

[New User? SignUp here](#)

## Donation Form

**CLOTH SHARE FOUNDATION** [HOME](#) [ABOUT](#) [CONTACT](#) [Donate](#) [Store](#) [Registration](#) [login](#)

### Donation Form

Mobile Number:

Name:


Location:

Donation Category:

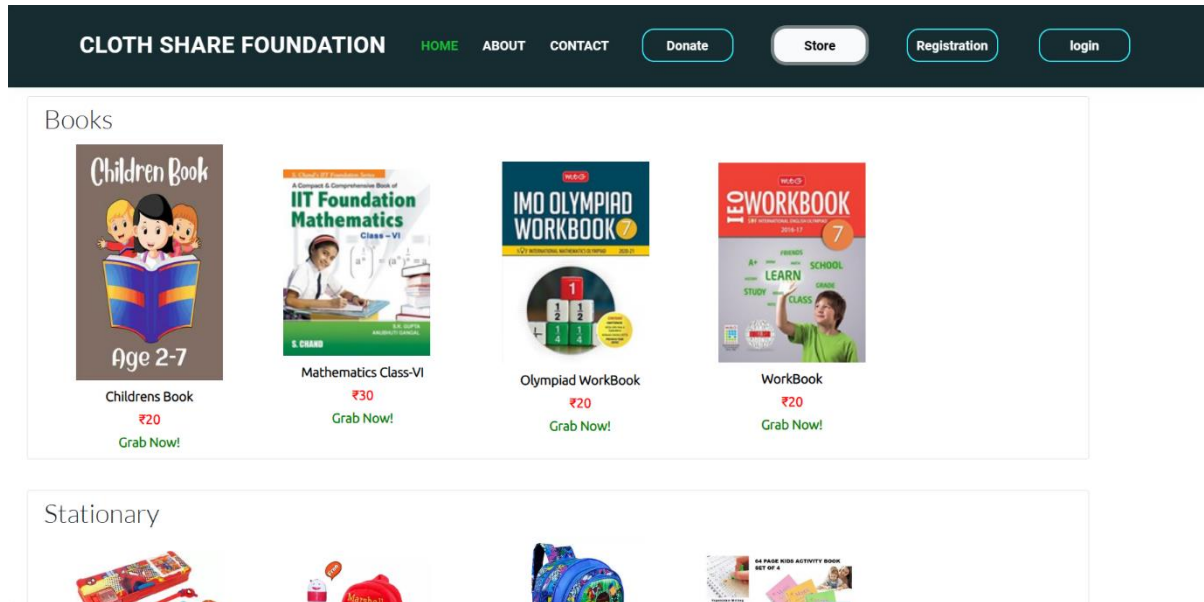
Quantity:

Image:

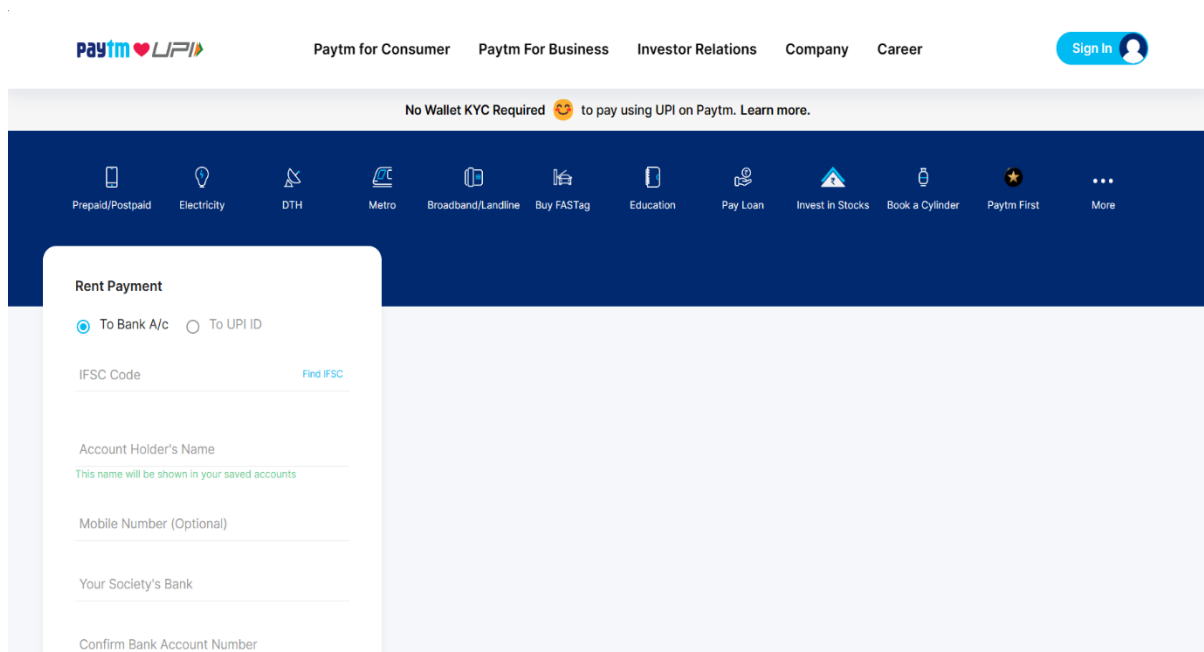
No file chosen



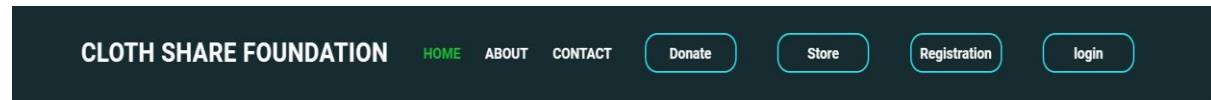
## Store Form



## Payment Form



## About Us Page

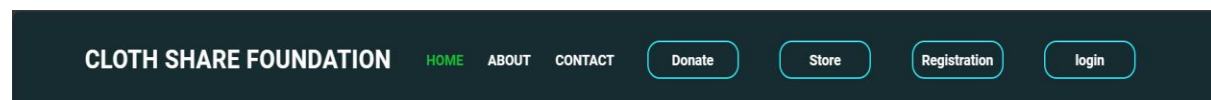


The Cloth Share Foundation is Simple!

Here is the place where you can sell your old cloths and earn money.  
You can also Donate your cloths to the needed one. We Deliver your Donations to the right place



WHY DONATE THROUGH Cloths Share Foundation



### Super Convenient

Donate reusable items from the convenience of your house. Avail doorstep pickup and get your donations delivered to the ones in need.



### Feel Good Factor

Giving gives you pleasure and makes you happier bringing a positive and uplifting effect on you.



### Your Donations are Valued

We make sure your donations reach someone who really requires them by delivering them to the beneficiaries directly.



### Transparent Process

Your donations reach the beneficiaries as it is through our verified trusted partner NGOs audited on regular basis.



### Get Surprise Rewards

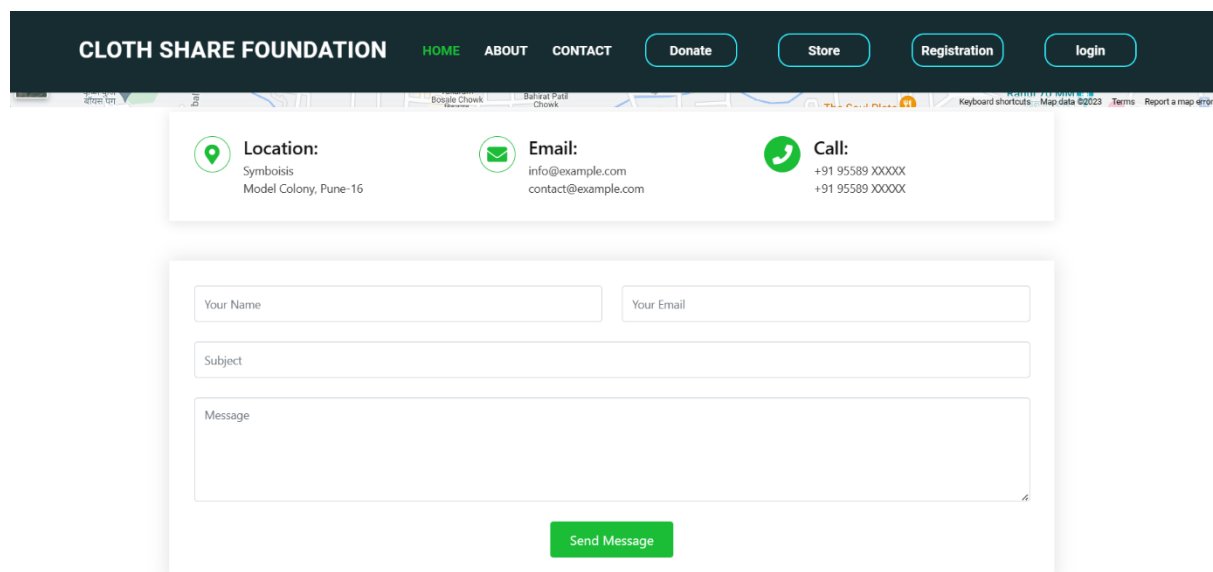
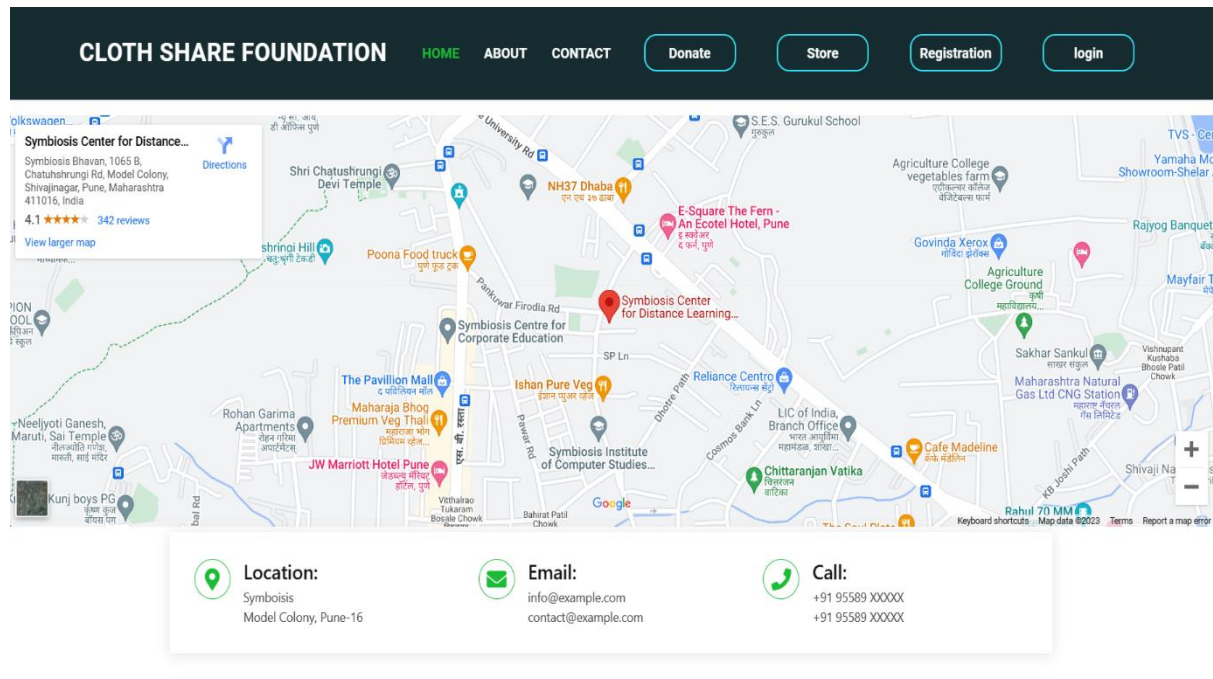
We surprise you time to time by sending you our exclusive "happiness box" containing surprise goodies and vouchers for you.



### Save the Environment

Keep your unwanted belongings out of landfill by giving them a new life and getting them in hands of someone who really requires them.

# Contact Us Page



# OUTPUT SCREEN

## User Registration Form

CLOTH SHARE FOUNDATION

HOME

ABOUT

CONTACT

Donate

Store

Registration

login

Sign up

Vaibhavi Patil

Vaibhavi123@gmail.com


9999999999

\*\*\*\*\*

\*\*\*\*\*

Register

[Register User?](#) [Login here](#)



## User Login Form

CLOTH SHARE FOUNDATION

HOME

ABOUT

CONTACT

Donate

Store

Registration

login

Login

Email

Vaibhavi123@gmail.com

Password

\*\*\*\*\*

☐

Remember Me

Forgot Password?

Login

[New User? SignUp here](#)

## Donation Form

CLOTH SHARE FOUNDATION

HOMEABOUTCONTACT

DonateStoreRegistrationlogin

Donation Form

Mobile Number:  
9999999999

Name:  
Vaibhavi Patil

Location:  
Kolhapur


Donation Category:  
Books

Quantity:  
1

Image:  

Choose FileNo file chosen

upload



## Shopping Cart

CLOTH SHARE FOUNDATION

HOMEABOUTCONTACT


DonateStoreRegistrationlogin

Cloth Share Foundation

Search Here

Search

Pay




Logout


### Your Shopping Cart

Product Name	Price	Quantity	Total	Action	Payment
Tshirt & Pants	\$67.00	1	\$67.00	<div>Remove</div>	<div>Payment</div>
Total: \$67.00					

# Payment Form

paytm 

Paytm for Consumer   Paytm For Business   Investor Relations   Company   Career

Sign In 

Prepaid/Postpaid   Electricity   DTH   Metro   Broadband/Landline   Buy FASTag   Education   Pay Loan   Invest in Stocks   Book a Cylinder   Paytm First   More

Rent Payment

☒ To Bank A/c   ☐ To UPI ID

IFSC Code  
HDF9898556 [Find IFSC](#)

Account Holder's Name  
XYZ  
This name will be shown in your saved accounts

Mobile Number (Optional)

Your Society's Bank  
HDFC Bank

Confirm Bank Account Number  
\*\*\*\*\*

[Upload Rental Agreement \(Optional\)](#)



# CONCLUSION

## 5.1) Conclusion

Cloth Share Foundation is a promising initiative that leverages the power of electronic commerce to facilitate the sale of old clothes, books, and stationary items while promoting charitable contributions. By providing a user-friendly online platform accessible through web browsers and mobile apps, it has the potential to bring about several positive outcomes.

It has a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of programming in Angular, Java and SQL and also handling procedure related with Foundation systems. It also provides knowledge about the latest technology used in developing application and server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

At last it can be concluded that the **Cloths Reusable Foundation** was the real learning experience. The project has been made as per as the given specification. The system has been made as user friendly as possible.

## **5.2) Limitations**

But there are some limitations, they are as follows:

1. Managing the collection, distribution, and quality control of donated items can be logistically challenging, particularly as the platform grows.
2. Users, especially older individuals or those from less technical backgrounds, may face difficulties in using web browsers or mobile apps effectively, potentially excluding some demographic groups.
3. The current system may not have a structured mechanism for users to donate their old clothes and books to those in need,
4. As with any online platform, there are security risks such as data breaches, phishing attempts, and fraud.
5. As the platform grows, scaling up infrastructure and maintaining performance can be challenging without careful planning.

### **5.3)Future Scope of Study**

The scope of this project is very broad in terms of gaining knowledge and sharing knowledge among world.

Clothing industry that aims to lower the environmental impact of the clothes industry both production and consumption.By prioritizing quality over quantity ,reducing the amount of textile waste generated.

It is responsible for large amount of waste.

It will cater the demand of Trading and thus helps the other business entities to increase the production and service which provide service and support to this industry.

- Security can be improved more.
- Payment option can be added.
- More features or as per user feedback application can be updated . This application will be used in corporate world.

## **5.4)Bibliography/References**

### **Books**

1. "Effective Java" by Joshua Bloch
2. "Angular Development with TypeScript" by Yakov Fain and Anton Moiseev
3. "Spring Boot in Action" by Craig Walls

### **Website**

<https://www.javaguides.net/2019/06/spring-boot-angular-7-crud-example-tutorial.html>