Project Name: Customized-FirstChoice

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Documentation On

"Customized-FirstChoice"

<u>Submitted By</u>

Group No: 10

- Pooja Fondekar.   210943120068
- Pragati Wasnik.   210943120071
- Harsha Sonawane.   210943120031
- Mohnish Pawar.   210943120054

UNDER THE GUIDENCE OF:

Mrs. Harshita Maheshwari
Faculty Member

Infoway Technologies, Pune.

ACKNOWLEDGEMENT

The successful completion of a project is not an individual's effort. It is an outcome of cumulative efforts of all group members, each having its own importance to the objective.

This section is a value of thanks and gratitude towards all members for contributed in their own special way towards the completion of the project. For their invaluable comments and suggestions, we wish to thank all group members. We owe our gratitude and appreciation to our guide Mrs. Harshita Maheshwari whose suggestions and encouragement helped us to co-ordinate our project. We would also like to express our gratitude towards Infoway faculty and management for their Extended Support. Our thanks and appreciations also go to all project members for developing the project.

<u>Abstract</u>

This Customized-FirstChoice project will basically be an easy-to-use web application that will allow customers to easily purchase and order items. It is basically for providing a platform for registering users, vendors, categories, products, managing stocks and orders and an end to end system from order-to –delivery-to –payment services.

This project presents a theoretical framework for online shopping site, it discussed about ordering stitched products and raw materials from our store from vendors.

This project discussed the tool and technology used in developing the proposed system (the system has a front end by REACT to display the content structure and a back end of database using MySQL and Spring Boot I.e. J2EE). A number of development methodologies were discussed and why one of the methodologies was chosen for this project. Methods used to gather the requirement specification was also discussed and how the researchers will use this as a guideline in developing the proposed system.

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1. <u>INTRODUCTION</u>

Main motive of doing this project is to fulfill the customer requirements and to build strong customer base. In this project we are going to develop the system where we are providing a multiple option to user so that user can choose as per their requirement and get satisfactory product (Customized product). Also customer can buy raw material from the site. Experience to each segment of users and can drive customer loyalty and increase customer satisfaction.

The system enables the customer to purchase the Products category wise, choose products based on description and add that product into cart The system provides you details about product. If user want to buy product, he must have registered account. The system shows the product that are available or not in stock, The system displays price, quantity, availability of product to customer as well as vendors.

The System have admin who can add new categories so that vendors can add products according to the given categories. Also, admin first gives approval to the vendor and after approval from admin vendor can sign in to our system.

This will provide a platform for small as well as large boutiques to manage their business and get available to the customers through online delivery. Helping customers to decorate their special moments by delivering fabulous products.

1.1 Problem Statement

An online website for a shopping is a very common system that been used. Yet, there is some sites which failed to provide a good service for the customers and unable to get customized products.

In an existing system user can buy a readymade products i.e. stitched products so that sometimes need of user is not satisfied as per their requirements. Many times customers wants product as per their choice (customized product).

This documentation is aimed to create a website which, handle ordering like readymade products as well as raw materials for customization and satisfies the customers need.

Product Scope -

The scope for this project developing a software that operates as online system that can send and receive information to the vendors and customers. This system operates through online and will be highly secured as there will be different users with different keys to login into their account.

1.2 Aims & Objectives -

- To design a user-friendly website interface for the boutiques.

- To provide readymade as well as raw products.

- To provide a platform for a boutique owners that is vendors to sell their designer products as well as raw materials through Customized-FirstChoice.

- To provide an online products services with home delivery.

2.Analysis

2.1.Existing System

There is already existing online website for the shopping but they have only stitched products for particular product. So, sometimes customers wants to buy a product but size is not available so that Customized-FirstChoice provides a way to customers to buy a raw material according to their need.

2.2.Proposed System

Our proposed system that is Customized-FirstChoice modules listed as below.

1. User Module

2. Vendor Module

3. Admin Module

User need to register first and then login to order the product. User can select category for ordering raw materials according to their requirements. Readymade products are also available with lots of varieties. User can add their product in cart. User has one wallet where he/she can add the balance and buy the products if the wallet balance is sufficient. Individual user can also view their all orders.

Vendors need to register first and then the vendors which are approve by **Admin** only that vendors can handle their product management, stock management, add products. When order successfully placed then vendor's wallet also get updated.

Admin can login to system and approve a newly register vendor. Admin can also add a categories and view all the listed products. Admin can see all the orders that are take place by different users. When user placed any order admin wallet also get updated.

2.3.Software Requirement Specification

Hardware:

4. Intel i3 Processor 3rd Generation
5. 4 GB ddr3 ram.
6. Windows 10 Home edition or later.
7. 200 GB SATA HDD Space
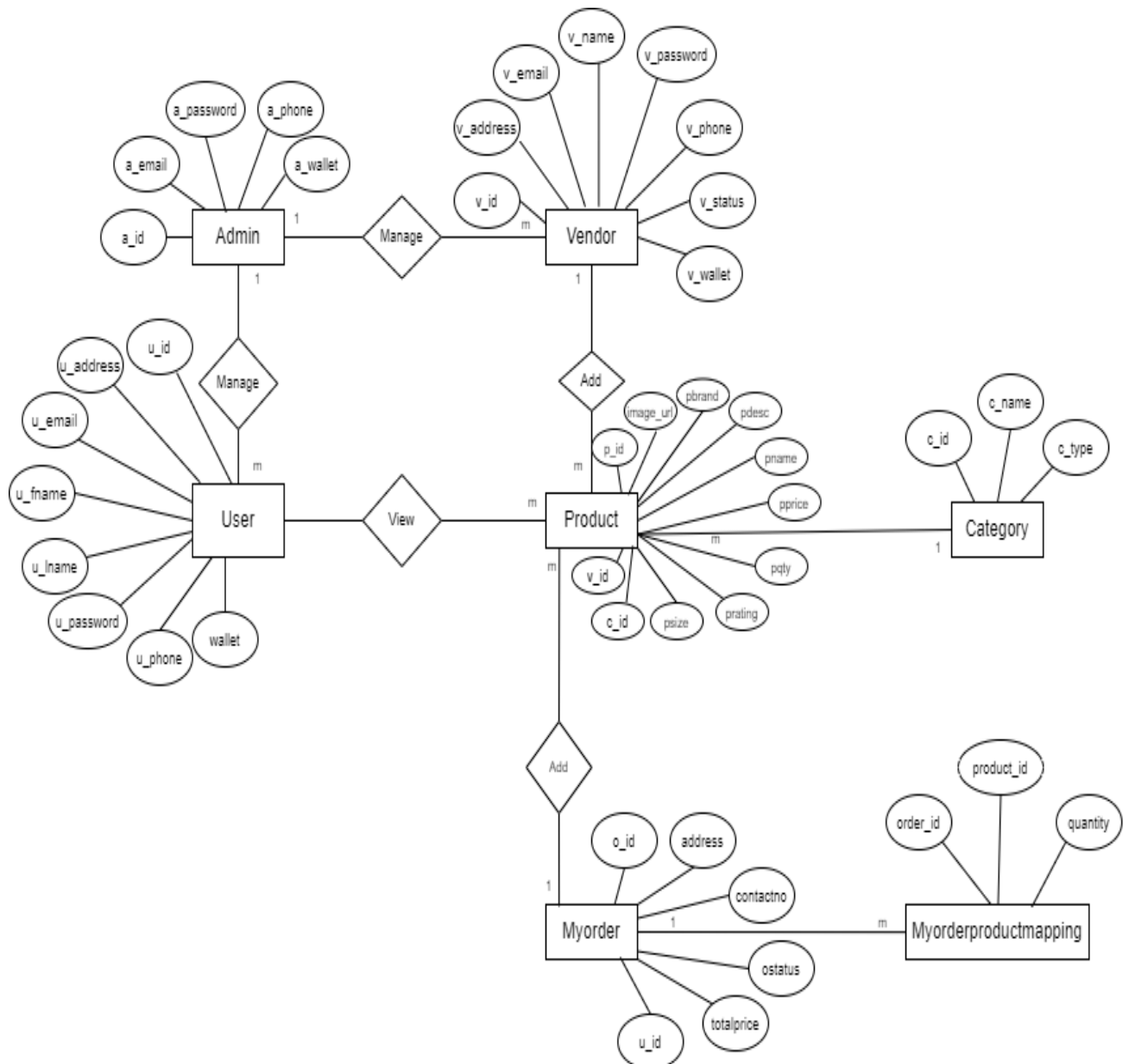8. Data Connection 200 Kbps

Software:

1. **Frontend-** REACTJS
2. **Backend-** Spring boot
3. **Database-** MySQL 5.7 with Workbench 8.0
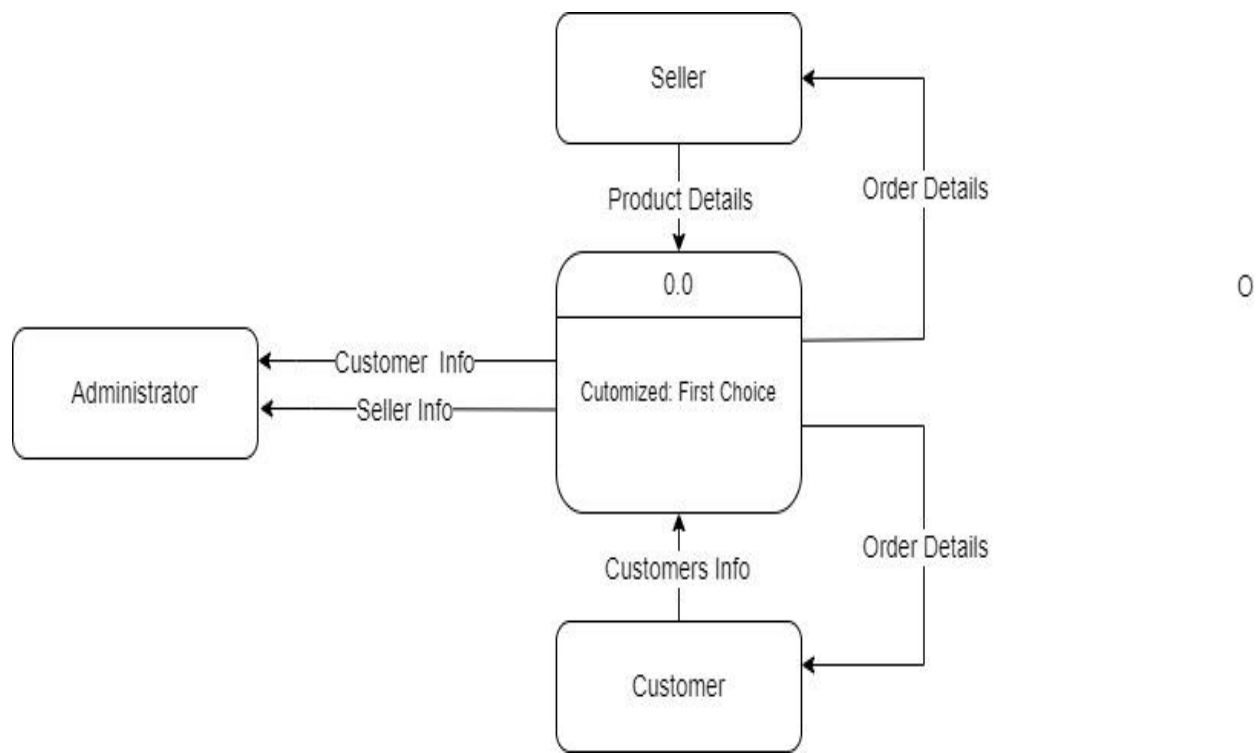5. Apache Tomcat Server 9

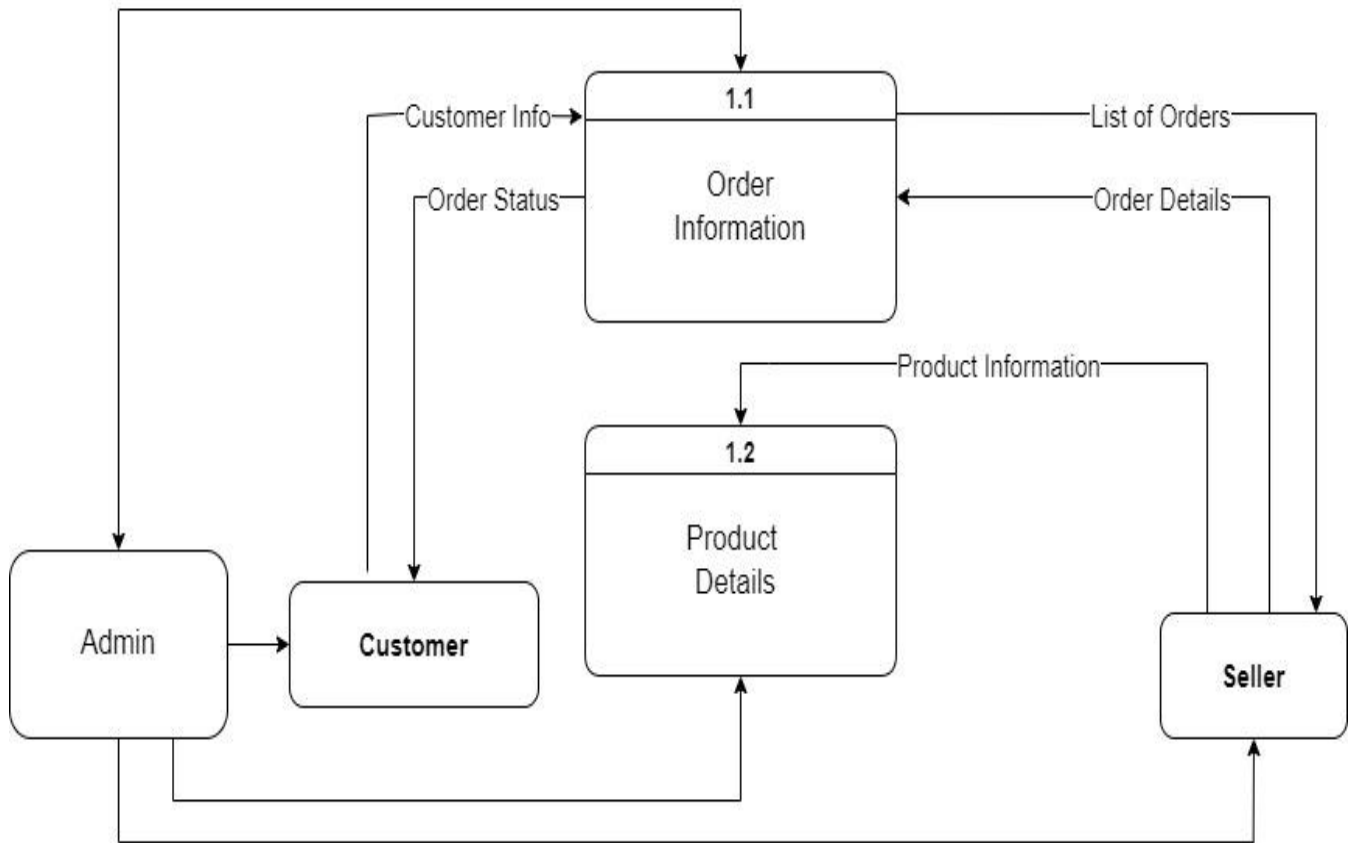# 3.DESIGN

3.1.UML diagrams

3.1.1.ER-Diagram:

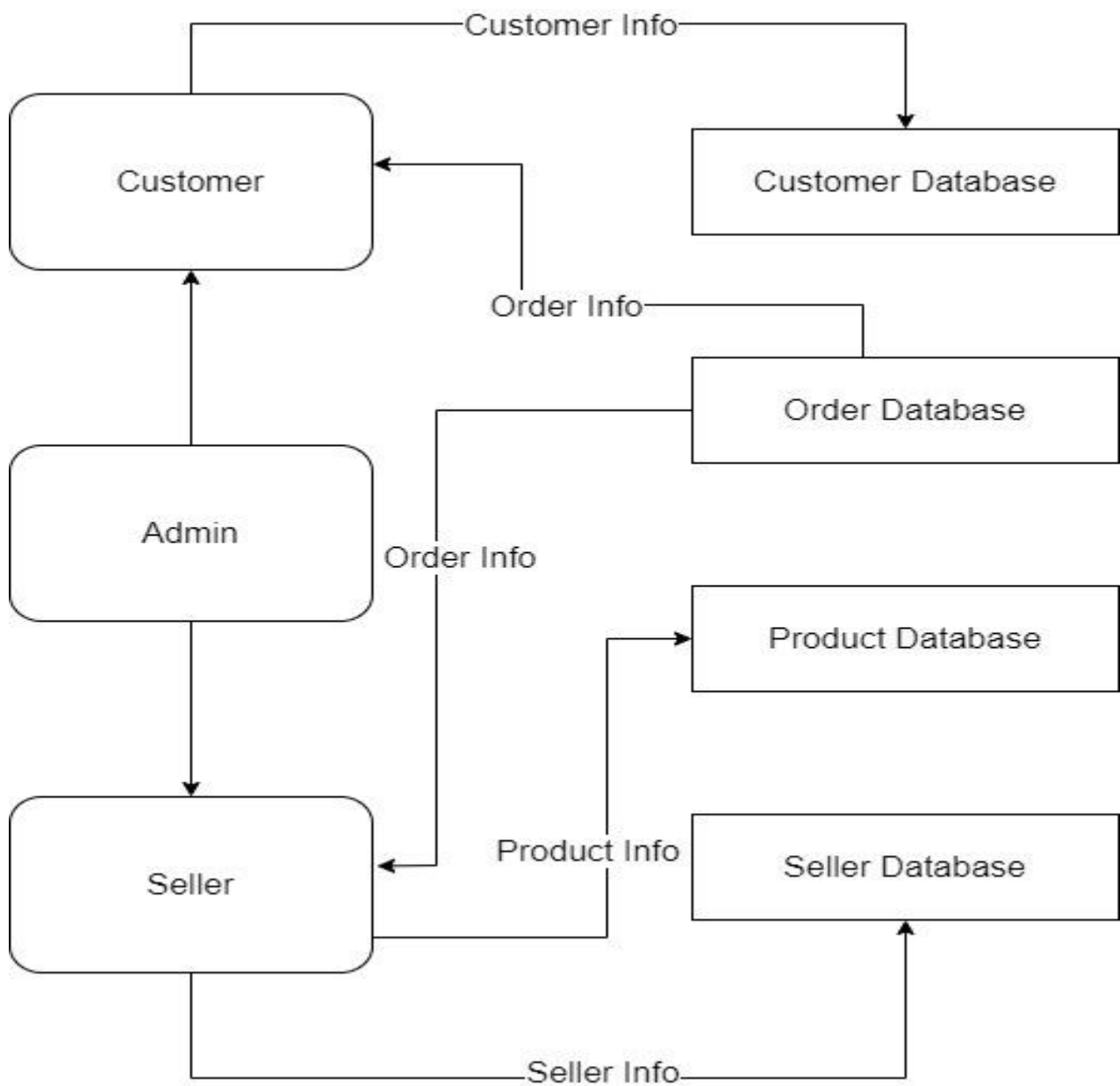### 3.1.2.Data Flow Diagram(DFD):

Level 0:

Level 1:

Level 2:

4. Implementation

4.1.Modules

Our proposed system that is Customized-FirstChoice consists of three main modules listed as below.

1. Customer Module
2. Vendor module
3. Admin Module

4.2.Module Description

4.2.1.Customer Module

• Customer can login or register.

• Select product category wise.

• Add products to cart.

• Customer can able to see order status after successfully placed order..

4.2.2.Vendor Module

• Vendor can login or create his own account.

• Vendor can add products for sell.

• Can view out of stock products.

4.2.3.Admin Module

• Admin can login.

• Admin can add categories.

• Approve vendor

4.3.Introduction of technologies used

4.3.1 Spring Boot Framework:

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 enables you to build applications from "plain old Java objects" (POJOs) and to apply enterprise services non-invasively to POJOs. This capability applies to the Java SE programming model and to full and partial Java EE.

4.3.1.1.Features of Spring boot Framework:

Web Development

It is well suited Spring module for web application development. We can easily create a self-contained HTTP server using embedded Tomcat, Jetty or Undertow. We can use the spring-boot- starter-web module to start and running application quickly.

Spring Application

It is a class which provides the convenient way to bootstrap a spring application which can be started from main method. You can call start your application just by calling a static run () method.

Admin Support

Spring Boot provides the facility to enable admin related features for the application. It is used to access and manage application remotely. We can enable it by simply using spring.application.admin. enabled property.

Logging

Spring Boot uses Common logging for all internal logging. Logging dependencies are managed by default. We should not change logging dependencies, if there is no required customization is needed.

Security

Spring Boot applications are spring bases web applications. So, it is secure by default with basic authentication on all HTTP endpoints. A rich

set of Endpoints are available for develop a secure Spring Boot application.

Advantages of a Spring Boot application

- Fast and easy development of Spring-based applications;
- No need for the deployment of war files;
- The ability to create standalone applications;
- Helping to directly embed Tomcat, Jetty, or Undertow into an application;
- No need for XML configuration;
- Reduced amounts of source code;

1. The JDBC Template

The central class of the Spring JDBC abstraction framework is the **Jdbc Template** class that includes the most common logic in using the JDBC API to access data, such as handling the creation of connection, statement creation, statement execution, and release of resource. The **Jdbc-Template** class can be found in the **org.springframework.jdbc.core** package.

The **Jdbc Template** class instances are thread-safe once configured. A single **Jdbc Template** can be configured and injected into multiple DAOs.We can use the **Jdbc Template** to execute the different types of SQL statements. **Data Manipulation Language** (**DML**) is used for inserting, retrieving, updating, and deleting the data in the database such as **SELECT**, **INSERT**, or **UPDATE** statements

4.3.2 MySQL

MySQL, the most popular Open-Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.

Features of MySQL:

A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or the vast amounts of information in a corporate network. To add, access, and process data stored in a computer database, you need a database management system such as MySQL Server. Since computers are very good at handling large amounts of data, database management systems play a central role in computing, as standalone utilities, or as parts of other applications.

- **MySQL databases are relational.**

A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structures are organized into physical files optimized for speed. The logical model, with objects such as databases, tables, views, rows, and columns, offers a flexible programming environment.

- **MySQL software is Open Source.**
Open-Source means that it is possible for anyone to use and modify the software. Anybody can download the MySQL software from the Internet and use it without paying anything. The MySQL Database Server is very fast, reliable, scalable, and easy to use.
MySQL Server works in client/server or embedded systems.

The MySQL Database Software is a client/server system that consists of a multithreaded SQL server that supports different back ends, several different client programs and libraries, administrative tools, and a wide range of application programming interfaces (APIs).

4.3.3.React JS

React JS is JavaScript library used for building reusable UI components. According to React official documentation, following is the definition −

React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance. React can also render on the server using Node, and it can power native apps using React Native. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

React Features

- **JSX** − JSX is JavaScript syntax extension. It isn't necessary to use JSX in React development, but it is recommended.

- **Components** − React is all about components. You need to think of everything as a component. This will help you maintain the code when working on larger scale projects.

- **Unidirectional data flow and Flux** − React implements one-way data flow which makes it easy to reason about your app. Flux is a pattern that helps keeping your data unidirectional.

- **License** − React is licensed under the Facebook Inc. Documentation is licensed under CC BY 4.0.
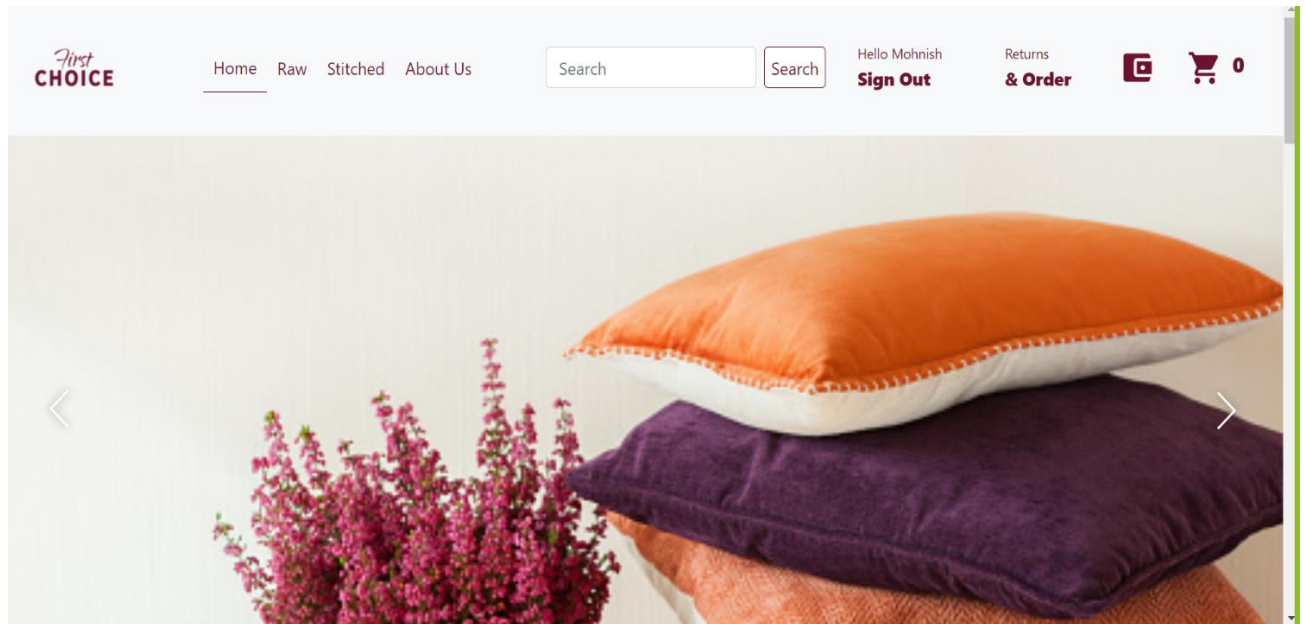
React Advantages

- Uses virtual DOM which is a JavaScript object. This will improve apps performance, since JavaScript virtual DOM is faster than the regular DOM.

- Can be used on client and server side as well as with other frameworks.

- Component and data patterns improve readability, which helps to maintain larger apps.

5.Test cases

Test case id	Test case Name	Test case description	Expected Result	Actual result	status
1	Admin Login	Admin needs to enter his id and password for login	Admin can see his homepage	Admin is on his home page	successful
2	customer Login	Customer need to register first and then enter his customer id and password for login.	Customer can see his homepage	Customer is on his home page	successful
3	Vendor Login	Vendor need to register first and then approve by admin and enter his vendor id and password for login.	Vendor can see his homepage	Vendor is on his home page	successful
4	Confirm orders	Customer can select product and then make payment from wallet.	Order will confirm and customer see order status is placed.	Customer can see order status placed	successful

6.Screenshots of Webpages

Homepage

List of Product:

Raw Material

Raw Cotton Material
Size -
Brand - Taavi
₹110

Available Stocks :**300 mtrs**
⭐⭐⭐

+ Add to Basket

Raw Material

Velvet Material
Size -
Brand - Taavi
₹165

Available Stocks :**194 mtrs**
⭐⭐⭐

+ Add to Basket

Raw Material

Raw Silk Material
Size -
Brand - Taavi
₹220

Available Stocks :**142 mtrs**
⭐⭐⭐

+ Add to Basket

Raw Material

Raw Rayon Material
Size -
Brand - Taavi
₹170.5

Available Stocks :**129 mtrs**
⭐⭐⭐

+ Add to Basket

User Sign In Page

User Sign-in

Email address

hsonawane1998@gmail.com

We'll never share your email with anyone else.

Password

•••••

☐ By signing in you will agree all the terms & condition by FIRST CHOICE

Sign In

Create Account

Vendor Login

Admin Login

Vendor Sign In Page

First
CHOICE

Vendor Sign-in

Email

hsonawane1998@gmail.com

Password

•••••

By signing in you will agree all the terms & condition by First Choice

Sign In

Create your Vendor's First Choice Account

← Back

User's Order List

Home   Raw   Stitched   About Us   Search | Search | Hello Mohnish **Sign Out**   Returns **& Order**   🛒 0

Order TotalPrice	Order QTY	Order Status
165	Raw Material * 1	Placed
660	Pillow Cover * 5	Placed
1980	Raw Material * 4 Raw Material * 6	Placed

First CHOICE

@2022 First Choice

User's Wallet Page

First CHOICE

Home   Raw   Stitched   About Us   Search | Search | Hello Mohnish **Sign Out**   Returns **& Order**   🛒 0

First CHOICE

User Wallet

Amount in wallet : 395

Add Amount

Vendor's product List

View Products   Product Out Of Stock   Add Products

Hello Harsha
Sign Out   Vendor

Product ID	Product Title	Product Describe	Product Size	Product Brand	Product Price	Product Quantity	Product Rating
1	Raw Material	Raw Cotton Material		Taavi	110	300	3
2	Raw Material	Velvet Material		Taavi	165	194	3
3	Raw Material	Raw Silk Material		Taavi	220	142	3
4	Raw Material	Raw Rayon Material		Taavi	170.5	129	3
5	Raw Material	Raw Satin Material		Taavi	275	120	3
6	Pillow Cover	Cotton Pillow Covers	20*26"	Taavi	132	0	3
11	Doormates	Brown Doormate	24*36"	Taavi	385	7	3
8	Linen Curtains	Pink Linen Door Curtains	6.5*7.5 feet	Taavi	990	8	3
9	Cotton Blue Bedsheet	Queen Size Bedsheet	90*108"	Taavi	605	6	3
10	Table Cloth	Floral Table Cloth	70*90"	Taavi	440	6	3

Vendor's page for out of stock products

First CHOICE

View Products   Product Out Of Stock   Add Products

Hello Harsha
Sign Out   Vendor

Product ID	Product Title	Product Describe	Product Size	Product Brand	Product Price	Product Rating	Product Quantity
6	Pillow Cover	Cotton Pillow Covers	20*26"	Taavi	132	3	0

Total Number Of Products:

1

Vendor's page for add product

Product Title

Enter Product Title

Description

Enter Description

Size

Enter Size

Brand

Enter Brand Name

Quantity

Enter Quantity

Price

Enter Price

Product Image

Choose File | No file chosen

*Upload Imgage within 2MB size

Add Product

Vendor's wallet page

First
CHOICE   View Products   Product Out Of Stock   Add Products   Hello Harsha
                                                                                                    Sign Out   Vendor

First
CHOICE

Vendor Wallet

Amount in wallet : 2524.5

Admin Home Page

First CHOICE

Add Category   Products   Categories   Customers   Vendors   Orders   Hello 1 **Sign Out**   Admin

Category Name

Category Type
○ STITCHED ○ RAW

Add Category

Admin page for vendor approval

First CHOICE

Add Category   Products   Categories   Customers   Vendors   Orders   Hello 1 **Sign Out**   Admin

Vendor ID	Vendor FirstName	Vendor ContactNumber	Vendor Email	Vendor Address	Vendor Wallet	Vendor Approve
1	Harsha	1223456789	harsha@gmail.com	Jalgaon	2524.5	🔵
19	Vendor	1223456789	vendor@gmail.com	Pune	0	🔵

Total Number Of Vendors:
2

7. TESTING

To build up our project we used software testing process for executing a program with the intent of finding error that is uncovering errors in a program makes it a feasible task and also typing to find the errors (whose presence is assumed) in a program. As it is a destructive process.
Types of testing we use in our project

Here we just mentioned that how the testing is related to this software and in which way we have test the software? In our project we have used five types of testing this are listed below –

UNIT TESTING –
Unit testing where individual program units or object class are tested here by using this testing, we have focus on testing functionality of the methods.

MODULE TESTING–
Where this is the combination of unit program is called module. Here we tested unit program is where the module program have dependency.

SUB SYSTEM TESTING –
Then we combined some module for the preliminary system testing in out project.

SYSTEM TESTING –
Where it is combination of two or more sub system and then it is tested here we tested the entire system a per requirement.

ACEEPTANCE TESTING –
Normally this type of testing is done to verify if system meets the customer specified requirements. After submitting this project to the user then they tested and to determine whether to accept the application. It is the system of testing performed by the customer to determine where they should accept the delivery of system.

8. Conclusion

Customized-FirstChoice provides a verified platform for online shopping of customize and ready-made products. A single platform to sell products by boutiques to customers.

Our System provides a very user-friendly platform where Customers can buy various types of readymade products and as well as raw materials. Admin have overall control over the website such as customer, vendors, order details .

9. Future Enhancement

The further development in the project is to provide a product as per customer requirement like customer will choose the material and provides a dimensions and according to that customer will received stitched product.

10. Bibliography

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https://www.w3schools.com/REACT/DEFAULT.ASP

https://www.javatpoint.com/mysql-tutorial

https://www.youtube.com/watch?v=36WoQ1anwM0

Thank You!