



INSTITUTE FOR ADVANCED COMPUTING ANDSOFTWARE DEVELOPMENT (IACSD), AKURDI, PUNE

Documentation On

Fashion 24 x 7

(Online Clothes Shopping Website)

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ABSTRACT

Fashion 24 x 7 (Online Clothes Shopping Website) is a project to provide necessary functionalities to the customers to enjoy online shopping from home place. This project is basically divided into 3 modules and can be titled as front end, backend and database. Also, Spring Security is used to provide authentication and authorization with an objective to improve data security.

This web project has applied standard 'SOLID Principles' by maintaining Separation Of Concern and Interface Segregation concepts. To attract more customers, the proposed application also provides attractive Graphical User Interface (GUI) implemented by ReactJS Libraries. As the project involves structured data and fixed schemas, MySQL is used as the database, which is quite preferred for its efficient queries & access.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, Mrs. Sonali Mogal for providing me with the right guidance and advice at the crucial juncture sand for showing me the right way. I extend my sincere thanks to our respected Centre Co-Ordinator Mr. Rohit Puranik, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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INTRODUCTION

Nowadays, the excitement of the customers for clothes shopping is getting crushed by crowdie malls, the long lines involved in the manual process of payments & what not. This is why many customers are opting to enjoy shopping from home instead of shopping at malls, shops etc.

This document includes Software Requirements Specification which is built to describe the agreement between the customer and the developer regarding the specification of the software requested for 'Online Clothes Shopping Website'. Its primary purpose is to provide a clear and descriptive 'Statement of User Requirements' that can be used as a reference in further development of the software system. This document is broken into a number of sections used to logically separate the whole content for the ease of reference. This Software Requirements Specification aims to describe the Assumptions, Constraints, Scope of Software to be developed, Functional Requirements, Non-Functional Requirements, various diagrams used while software development related to software described throughout the rest of the document.

This SRS describes, in clear terms, the software's primary uses and required functionality needed to general customer. This project of developing a hazel –free online portal for clothes shopping is providing separate portals for both customers & managers. Also, this online website aims towards reserving the rights to add & update products only to managers.

1 FEATURES

1.1 PROJECT OBJECTIVE

The main functionality of this project is that, to provide a secured online platform for clothes shopping available 24 x 7 for all the enthusiastic customers. This application provides proper security as well as attractive Graphical User Interface (GUI) to attract and ensure best services to all the customers.

1.2 PROJECT OVERVIEW

With the main objective of providing hassle-free online platform for online clothes shopping, this application provides different searching and sorting options. Also, some of the features like browsing variety of clothes products even without customer Login. The excitement of the customers for clothes shopping is getting crushed by crowdie malls, the long lines involved in the manual process of payments & what not. This is why many customers are opting to enjoy shopping from home instead of on site shopping.

1.3 PROJECT SCOPE

Fashion 24 x 7 (Online Clothes Shopping Website) will allow any user to create an account to become a customer. The application will allow users to browse, search, select, and add clothes products to a cart. Then, after selecting products in their cart, they can pay for the order items as per the order details. The above specified web application also allows an admin to manage the stock with full create, retrieve, update and delete (CRUD) functionality.

The application can by deployed by the owner provided with the specified requirements of server, virtual space & database versions. Also, it can be accessed by the normal users simply with the help of an updated Google Chrome Browser.

1.4 STUDY OF THE SYSTEM

1.4.1 MODULES:

The system after careful analysis has been identified to be presented with the following modules and roles.

The modules involved are:

Customer:-

The customer can browse variety of clothes products on the basic of different categories like T Shirt, Shirt, Pant etc. The authenticated (valid) customer can add multiple products to a cart and manage quantity as per the requirements.

➤ Admin :-

The admin have the authority of adding new products and update existing products. Also, the admin have the rights to cancel the order in case of emergency.

2 SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

2.1 PROPOSED SYSTEM

The proposed web application provides following functionalities in order to attract more customers for buying clothes online.

- ✓ The whole web application is hassle-free and provided best GUI.
- ✓ Security of the data is maintained properly by using in built Spring Security.
- ✓ Conditional Rendering is also used in order to achieve selective response generation.
- ✓ As it's an online web application and available for 24 x 7, customers may enjoy the shopping without any time constraints.

2.2 SYSTEM REQUIREMENT SPECIFICATION

2.2.1 FUNCTIONAL REQUIREMENTS

Fashion 24 x 7 (Online Clothes Shopping Website) will provide the following functionalities:-

• List Of Functions :-

Sr. No.	Function ID	Name Of The Function
1	F - 01	Collection of Clothes (as a product)
2	F - 02	User's Records
3	F - 03	List Of Available Products
4	F - 04	Log In – Log Out
5	F - 05	Shopping Cart
6	F - 06	Sorting Criteria
7	F - 07	Reviews & Ratings
8	F - 08	Admin Role
9	F - 09	Checkout
10	F - 10	Account Recovery
11	F - 11	Concurrency (Multi Threading)
		-

• Functional Description :-

i. Function ID : F - 01

a. Purposes : i. To maintain data associated with the inventory,

: ii. A product (clothes) has a title, brand name, size, quantities as per sizes, availability, category,

description, price etc.

: iii. The inventory also keeps track of the stock / quantity of each cloth product.

b. Entities Involved : Product (POJO)

c. Organizational Unit:

d. Frequency of Use : High

ii. Function ID : F - 02

a. Purposes : i. To maintain records for many users,

: ii. An user can be either a member or non-

member,

: iii. An user has a username (unique across all users), email address, password (with proper validations), and address (including detailed address, city, pin code, country etc.), contact number etc.

: iv. Anyone may sign up for a customer account.

b. Entities Involved : User (POJO)

c. Organizational Unit

d. Frequency of Use : High

iii. Function ID : F - 03

a. Purposes : i. To show a listing of available products,

: ii. All the clothes products are to be displayed in

proper order by title.

: iii. Each cloth will list the following – Title / Brand /

Price / Availability

b. Entities Involved : Product (POJO)

c. Organizational Unit

d. Frequency of Use : High

iv. Function ID : F - 04

a. Purposes : i. To allow users and managers to log in and out of

the system,

: ii. Users (Including both user and the manager)

will be logged out if inactive for 30 minutes.

b. Entities Involved : User, Manager (POJOs)

c. Organizational Unit :

d. Frequency of Use : High

v. Function ID : F - 05

a. Purposes : i. Any registered user is able to add one or more

clothes products to the shopping cart,

: ii. The shopping cart does not need to allow multiple

copies of any clothes product.

b. Entities Involved : Cart, Cart-item (POJOs)

c. Organizational Unit:

d. Frequency of Use : Medium

Function ID vi. : F - 06

> a. Purposes : i. The website must provide consistent sorting

> > options including following criteria - Sort By Price /

View New Products / Sort By Discounts / Sort By Category

b. Entities Involved : Product, Category (POJOs)

c. Organizational Unit:

d. Frequency of Use : Medium

Function ID vii. : F - 07

> : i. This web application must give options to all the a. Purposes

> > registered users to give reviews & ratings for

all the products

: Feedback (POJO) b. Entities Involved

c. Organizational Unit

d. Frequency of Use : Medium

viii. Function ID : F - 08

> a. Purposes : i. Registered Manager should be able to view and

> > add new products,

: ii. Also, they should be able to view and update

user's details.

b. Entities Involved : Manager (POJO)

c. Organizational Unit

d. Frequency of Use : High

ix. Function ID : F - 09

> : i. Checkout is only available to logged-in users a. Purposes

> > / managers,

: ii. When a user enters incorrect credentials, will be

given a chance to log in.

b. Entities Involved : User, Manager (POJOs)

c. Organizational Unit

d. Frequency of Use : Medium

Function ID : F - 10х.

> : i. This online website should give facility to recover a. Purposes

> > account in case of 'Forgot Password Scenario'.

: User, Manager (POJOs) b. Entities Involved

c. Organizational Unit d. Frequency of Use : Low xi. Function ID : F-11

a. Purposes : i. The online clothes shopping system would need to

be highly concurrent. There will be multiple ordering requests for clothes shopping at particular

point in time. The service should handle this type of load gracefully and fairly.

b. Entities Involved : ---

c. Organizational Unit :

d. Frequency of Use : ---

2.2.2 NON - FUNCTIONAL REQUIREMENTS

Fashion 24 x 7 (Online Clothes Shopping Website) will provide the following non – functional requirements:-

i. Interface:-

- ~ Fashion 24 x 7 (Online Clothes Shopping Website) must provide user interactive interface in order to attract more users.
- ~ The application should use best available attractive colour shade combinations.

ii. Performance:-

~ Number of Concurrent Users: - The application must handle maximum number of requests.

iii. Security:-

- ~ The online clothes shopping website must provide maximum level of security regarding data.
- ~ The data of the users, product details, valuable feedbacks, login credentials must be protected in order to maintain high customer satisfaction.
- ~ The application must provide separation via Authorization & Authentication.

iv. Availability:-

~ Fashion 24 x 7 (Online Clothes Shopping Website) must be available 24 X 7 i.e. throughout the day & night, so that users can enjoy shopping all the time.

v. Reliability:-

- ~ The specified application must be reliable, especially at the time of weekend, festival days, year endings etc.
- ~ The application must be reliable in the perspective of login / payment failures also.

vi. Safety:-

- ~ The online application must be saved against session fixations / SQL injection etc. malicious attacks.
- ~ The whole software must use firewall configurations in order to safeguard the application.

vii. Maintainability:-

~ The Fashion 24 x 7 (Online Clothes Shopping Website) should be able to maintain with as less efforts & changes as possible.

viii. Portability:-

- ~ The specified application must provide portability in order to change components of architecture in case of emergencies.
- ~ It should hazel free facility to replace the databases to enhance the efficiency in needed in future. Like replacement from MYSQL to Oracle or MYSQL to MongoDB.

ix. Accessibility:-

- ~ The online website must be accessible via desktops, laptops, smart devices including mobile phones, tablets etc.
- ~ The UI UX must not hamper in case of above options. It should remain uniform throughout all the devices.

x. Durability:-

~ The overall application should be durable, especially in the terms of data, product availability, and uniform performance over time.

xi. Other Requirements:-

- Hardware: The application is expected to function on Dell G3 15 with 1100 MHz Pre Processor Equivalent Or Above, 4 GB RAM, 512 GB HDD.
- Software: The Fashion 24 x 7 (Online Clothes Shopping

Website) shall work on Microsoft Windows operating systems family (MS Windows XP & Above). It configures to work with MYSQL database. This System works on Apache Tomcat server. It uses browser Google Chrome Browser.

3 DIAGRAMS

3.1 USE CASE DIAGRAM:-

A use case diagram is used to represent the dynamic behavior of a system. It encapsulates the system's functionality by incorporating use cases, actors, and their relationships. It models the tasks, services, and functions required by a system / subsystem of an application. It depicts the high-level functionality of a system and also tells how the user handles a system.

Here are all the basic terms used in the Use Case Diagram:-

- 1. Use cases: Horizontally shaped ovals that represent the different uses that a user might have.
- 2. Actors: Stick figures that represent the people actually employing the use cases.
- 3. Associations: A line between actors and use cases. In complex diagrams, it is important to know which actors are associated with which use cases. In this, Usually two keywords are used to denote the tight coupling & loose coupling i.e. include & extends respectively.
- 2. System boundary boxes: A box that sets a system scope to use cases. All use cases outside the box would be considered outside the scope of that system.

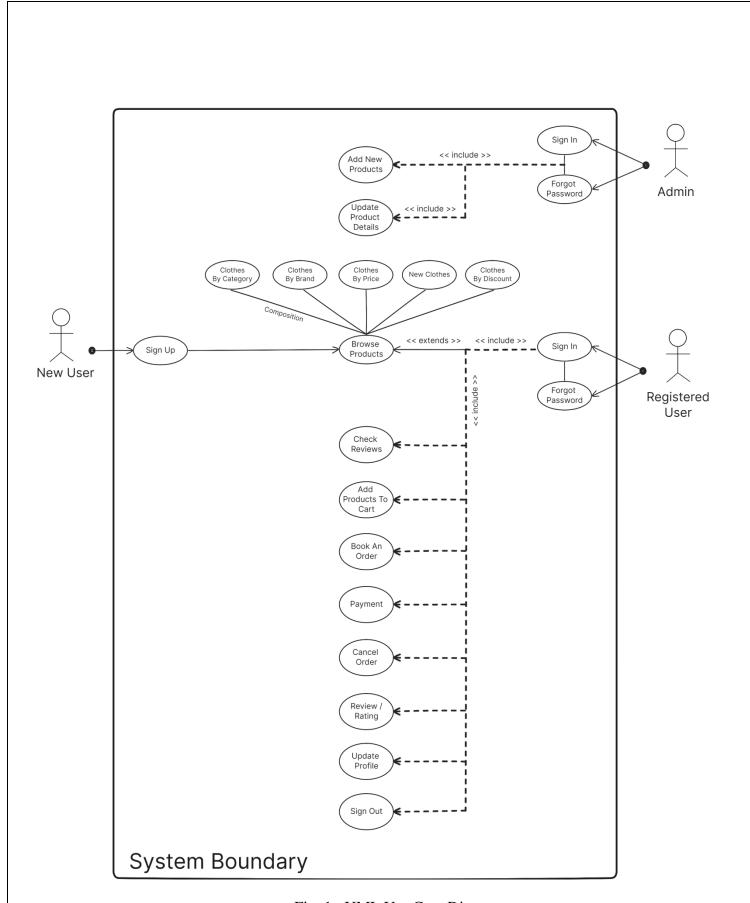


Fig. 1: UML Use Case Diagram

3.2. E-R DIAGRAM:-

Entity Relationship Diagram is used to define the data elements and relationship for a specified application. It develops a conceptual design for the database. It also develops a very simple and easy to design view of the data.

In Entity Relationship Diagram, the data is represented by using various components including entities, attributes, relationships (One To Many / Many To Many etc.)

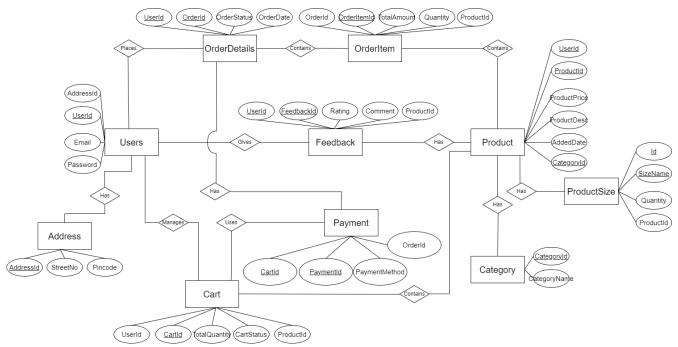


Fig. 2: ER Diagram

3.3. CLASS DIAGRAM:-

Class diagram is a static diagram. It represents the static view of an application. Class diagram is not only used for visualizing, describing, and documenting different aspects of a system but also for constructing executable code of the software application. Class diagram describes the attributes and operations of a class and also the constraints imposed on the system. The class diagrams are widely used in the modeling of object oriented systems because they are the only UML diagrams, which can be mapped directly with object-oriented languages.

Class diagram shows a collection of classes, interfaces, associations, collaborations, and constraints. It is also known as a structural diagram. The purpose of the class diagram can be summarized as:-

- A. Analysis and design of the static view of an application.
- B. Describe responsibilities of a system.
- C. Base for component and deployment diagrams.
- D. Forward and reverse engineering.

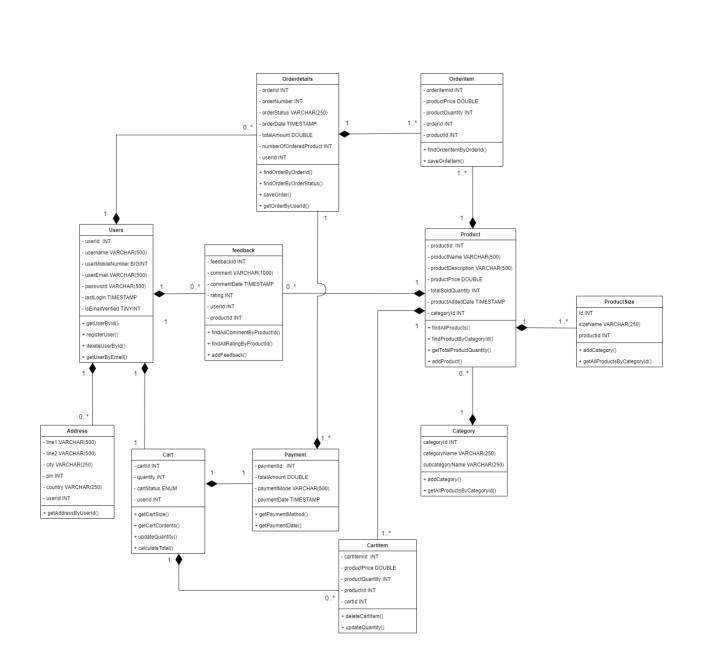


Fig. 3 : Class Diagram

3.4. ACTIVITY DIAGRAM:-

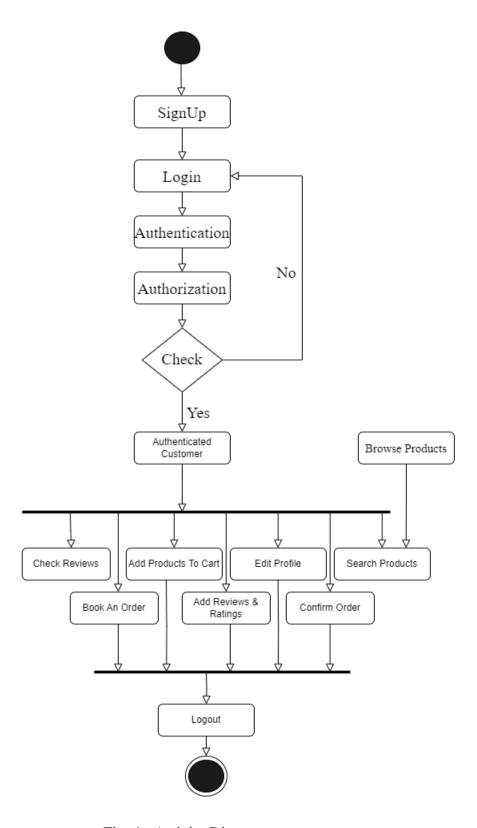


Fig. 4: Activity Diagram

3.5. DATA FLOW DIAGRAMS:-

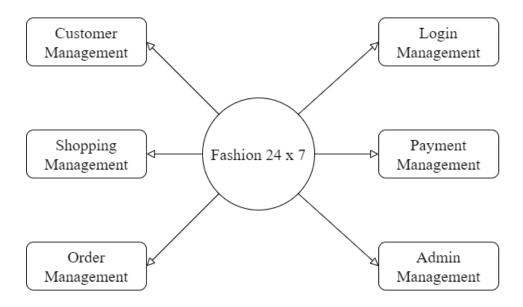


Fig. 5: Zero Level Data Flow Diagram

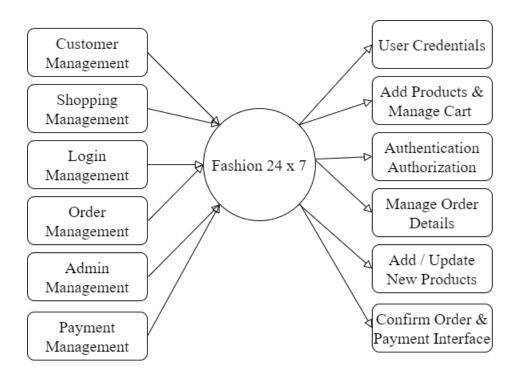


Fig. 6: First Level Data Flow Diagram

3.5. DEPLOYMENT DIAGRAM:-

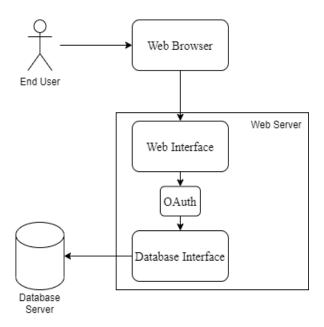


Fig. 7: Deployment Diagram

3.5. SEQUENCE DIAGRAM:

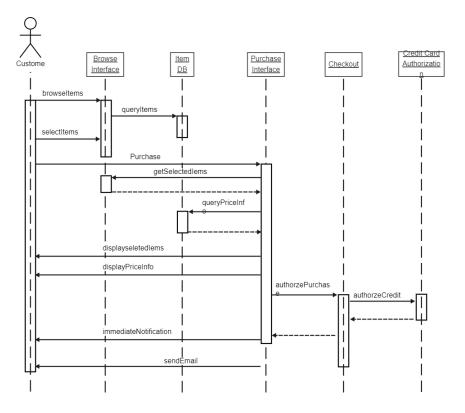


Fig. 8: Sequence Diagram

4 TABLE STRUCTURES

Fashion 24 x 7 (Online Clothes Shopping Website) generate following tables in the database:-

Field	Type	Null	Key	Default	Extra
userId	int	NO	PRI	NULL	auto_increment
username	varchar(500)	YES	j i	NULL	_
userMobileNumber	bigint	YES	UNI	NULL	
gender	varchar(45)	YES		NULL	
userEmail	varchar(500)	YES	UNI	NULL	
password	varchar(500)	YES		NULL	
registeredAt	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
lastLogin	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
isEmailVerified	tinyint	YES		0	
role	varchar(250)	YES		NULL	
enabled	tinyint	YES		1	
accountNonExpired	tinyint	YES		1	
credentialsNonExpired	tinyint	YES		1	
accountNonLocked	tinyint	YES		1	

Field	Туре	Null	Key	Default	Extra
productId	int	NO	PRI	NULL	auto_increment
productName	varchar(500)	YES		NULL	
productDescription	varchar(1000)	YES		NULL	
productPrice	double	YES		NULL	
productAddedDate	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
imageUrl	varchar(500)	YES		NULL	
categoryId	int	YES	MUL	NULL	İ

Field	Type	Null	Key	Default	Extra
addressId	int	NO	PRI	NULL	auto_increment
line1	varchar(500)	YES	ĺ	NULL	<u> </u>
line2	varchar(500)	YES		NULL	
city	varchar(250)	YES	ĺ	NULL	
state	varchar(90)	YES	İ	NULL	
pin	int	YES	İ	NULL	
country	varchar(250)	YES		NULL	
userId	int	YES	MUL	NULL	

Field	Туре	Null	Key	Default	Extra
cartId	int	NO	PRI	NULL	auto_increment
totalQuantity	int	YES		NULL	
totalCartPrice	double	YES	ĺ	NULL	1
cartStatus	varchar(45)	YES		NULL	
creationTime	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
userId	int	YES	MUL	NULL	

```
root>desc cartitem;
 Field
                               Null
                                            Default
                Type
                                      Key
                                                       Extra
 cartItemId
                int
                               NO
                                      PRI
                                             NULL
                                                       auto_increment
 unitQuantity
                int
                               YES
                                             NULL
 unitPrice
                double
                               YES
                                             NULL
                double
 totalPrice
                               YES
                                             NULL
 productId
                int
                               YES
                                      MUL
                                             NULL
                int
                                      MUL
 cartId
                               YES
                                             NULL
 sizeName
                varchar(45)
                               YES
                                             NULL
 rows in set (0.00 sec)
```

Field	Туре	Null	Key	Default	Extra
categoryId categoryName	int varchar(250)	NO YES	PRI	NULL NULL	auto_increment

ield	Туре	Null	Key	Default	Extra
feedbackId	int	NO	PRI	NULL	auto_increment
comment	varchar(1000)	YES		NULL	
commentDate	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
rating	int	YES		NULL	_
userId	int	YES	MUL	NULL	
productId	int	YES	MUL	NULL	

```
root>desc orderdetails;
Field
                                         | Null | Key | Default
                         Type
                                                                             Extra
 orderId
                           int
                                           NO
                                                  PRI
                                                         NULL
                                                                             auto_increment
orderNumber
                           int
                                           YES
                                                  UNI
                                                         NULL
                           varchar(250)
orderStatus
                                           YES
                                                         NULL
                                                         CURRENT_TIMESTAMP
                                                                             DEFAULT_GENERATED
 orderDate
                           timestamp
                                           YES
                           decimal(10,2)
                                           YES
 totalAmount
                                                         NULL
 numberOfOrderedProduct
                           int
                                           YES
                                                         NULL
 userId
                          int
                                           YES
                                                  MUL
                                                        NULL
 rows in set (0.00 sec)
```

oot>desc orderiter Field	" , + Type	+ Null	Key	+ Default	++ Extra
orderItemId productPrice productQuantity orderId productId	int double int int int	NO YES YES YES YES	PRI MUL MUL	NULL NULL NULL NULL NULL	auto_increment

ield	Type	Null	Key	Default	Extra
 paymentId	int	NO	PRI	NULL	auto_increment
totalAmount	double	YES		NULL	
paymentMode	varchar(500)	YES		NULL	
paymentDate	timestamp	YES		NULL	
paymentStatus	varchar(250)	YES		NULL	
orderId	int	YES	UNI	NULL	
userId	int	YES	MUL	NULL	
cartId	int	YES	MUL	NULL	

```
coot>desc oauth client details;
 Field
                            Type
                                             Null | Key | Default | Extra
 client id
                            varchar(255)
                                             NO
                                                    PRI
                                                          NULL
 resource_ids
                            varchar(255)
                                             YES
                                                          NULL
 client_secret
                            varchar(255)
                                             YES
                                                          NULL
 scope
                            varchar(255)
                                             YES
                                                          NULL
 authorized_grant_types
                            varchar(255)
                                             YES
                                                          NULL
 web_server_redirect_uri
                            varchar(255)
                                             YES
                                                          NULL
 authorities
                            varchar(255)
                                             YES
                                                          NULL
 access_token_validity
                            int
                                             YES
                                                          NULL
 refresh_token_validity
                            int
                                             YES
                                                          NULL
 additional information
                            varchar(4096)
                                             YES
                                                          NULL
 autoapprove
                            varchar(255)
                                            YES
                                                          NULL
11 rows in set (0.00 sec)
```

Field				Default	
token_id	varchar(255)	YES	+ 	 NULL	
token	mediumblob	YES		NULL	
authentication_id	varchar(255)	NO	PRI	NULL	
user_name	varchar(255)	YES		NULL	
client_id	varchar(255)	YES		NULL	

```
root>desc oauth refresh token;
                                          Key | Default |
 Field
                                   Null
                   Type
 token_id
                   varchar(256)
                                   YES
                                                NULL
                   mediumblob
 token
                                   YES
                                                NULL
  authentication
                   mediumblob
                                   YES
                                                NULL
 rows in set (0.00 sec)
```

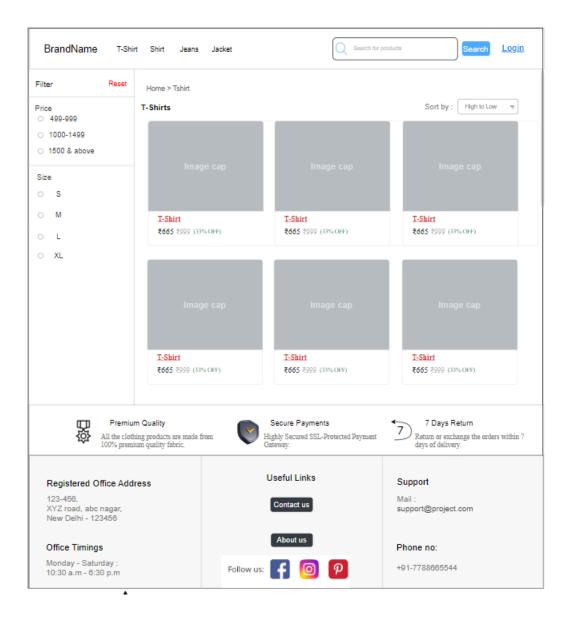
```
root>desc oauth access token;
 Field
                     Туре
                                    Null Key
                                                Default
                                                            Extra
 token id
                     varchar(255)
                                    YES
                                                 NULL
                     mediumblob
 token
                                    YES
                                                 NULL
                                           PRI
 authentication_id
                     varchar(255)
                                    NO
                                                 NULL
 user_name
                     varchar(255)
                                    YES
                                                 NULL
 client_id
                     varchar(255)
                                    YES
                                                 NULL
 authentication
                     mediumblob
                                    YES
                                                 NULL
 refresh_token
                     varchar(255)
                                    YES
                                                 NULL
 rows in set (0.00 sec)
```

Field	Type	Null	Key	Default	Extra
userId	varchar(255)	YES		NULL	
clientId	varchar(255)	YES	j	NULL	j
scope	varchar(255)	YES	j	NULL	j
status	varchar(10)	YES	ĺ	NULL	j
expiresAt	timestamp	NO	ĺ	CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP
lastModifiedAt	timestamp	NO	ĺ	NULL]

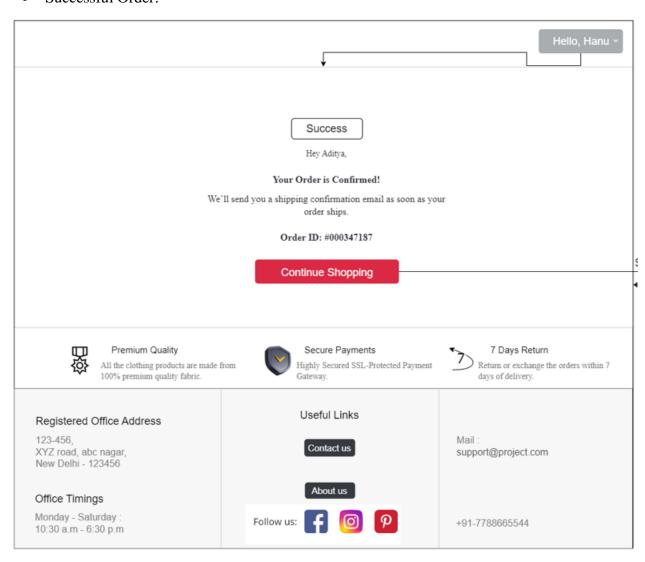
Field	Туре	Null	Key	Default	Extra
userId clientId scope status expiresAt lastModifiedAt	varchar(255) varchar(255) varchar(255) varchar(10) timestamp timestamp	YES YES YES YES NO NO		NULL NULL NULL NULL CURRENT_TIMESTAMP NULL	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

5 PROJECT DIAGRAMS

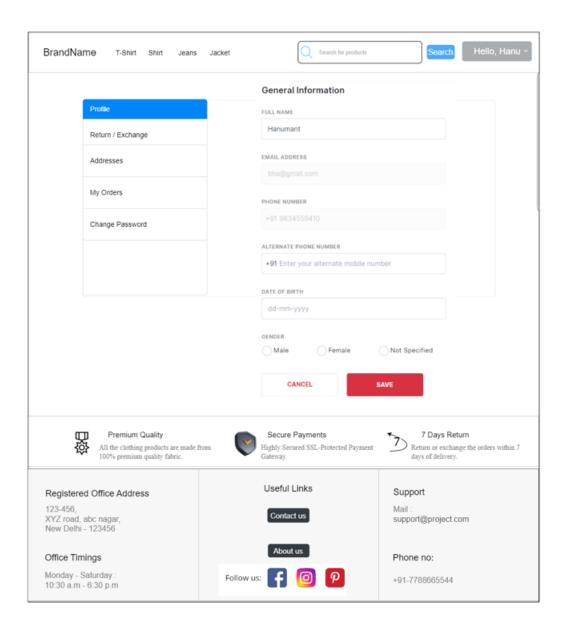
Category Wise Products:-



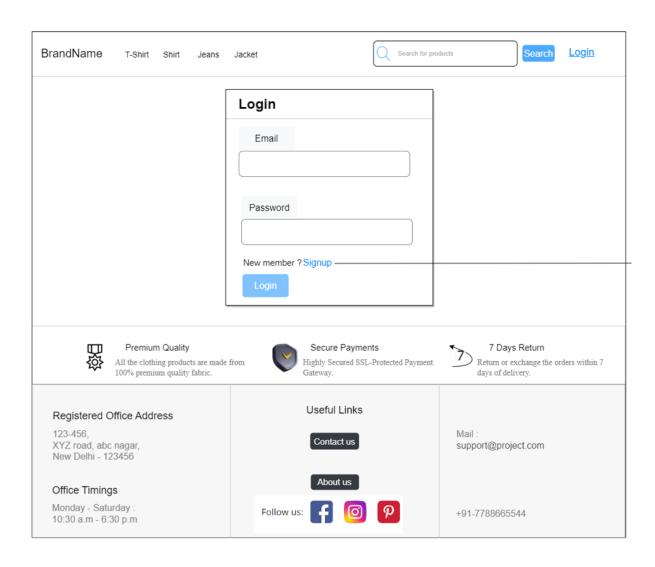
• Successful Order:-



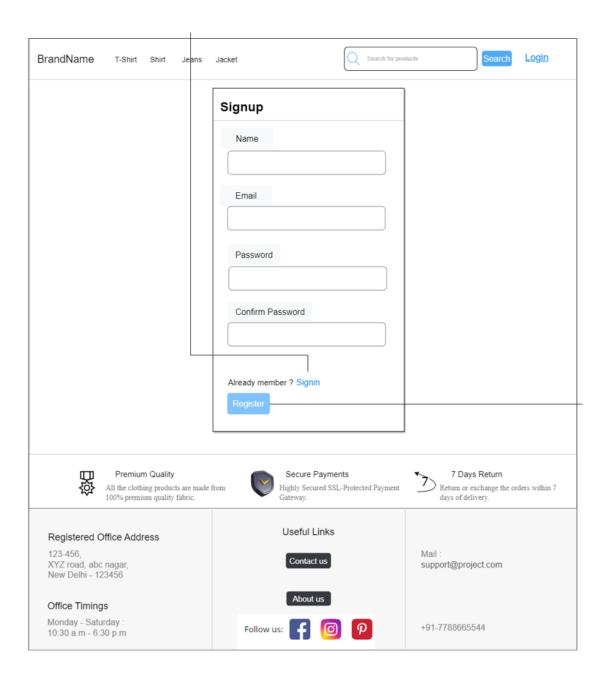
• Cart:-



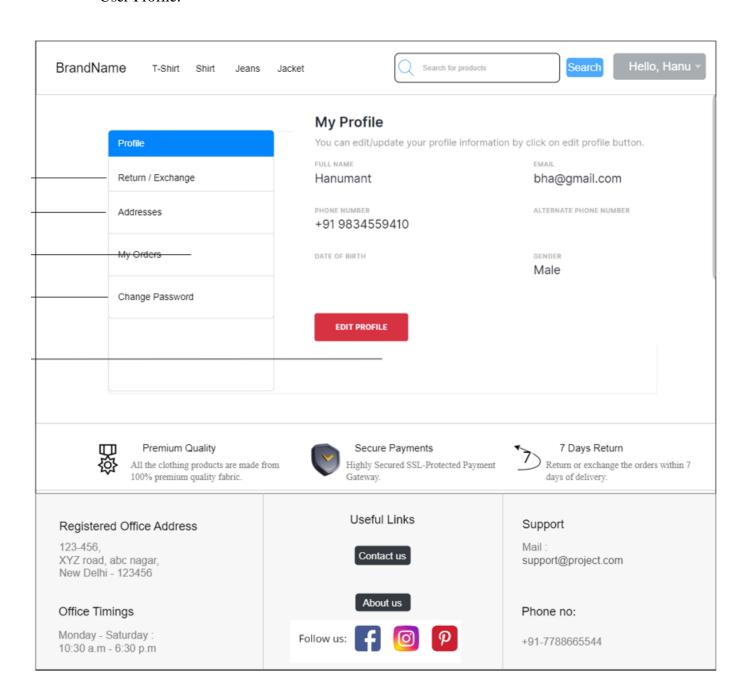
• User Login:-



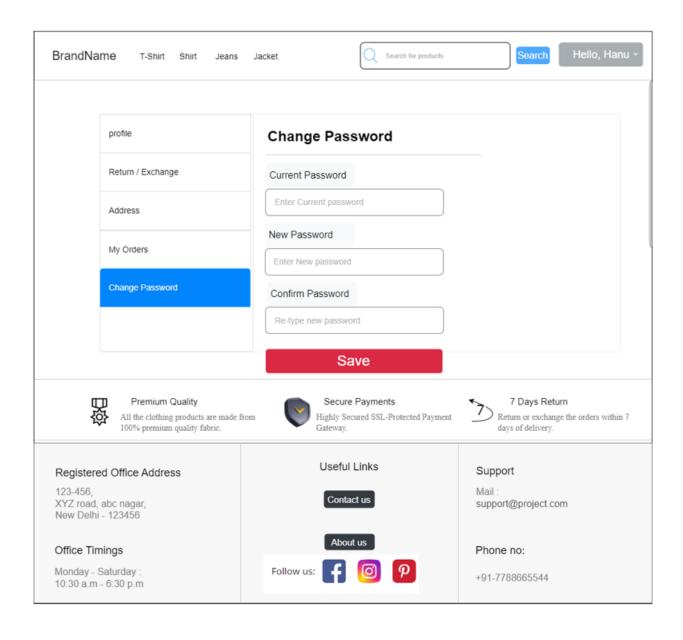
• User Signup:-



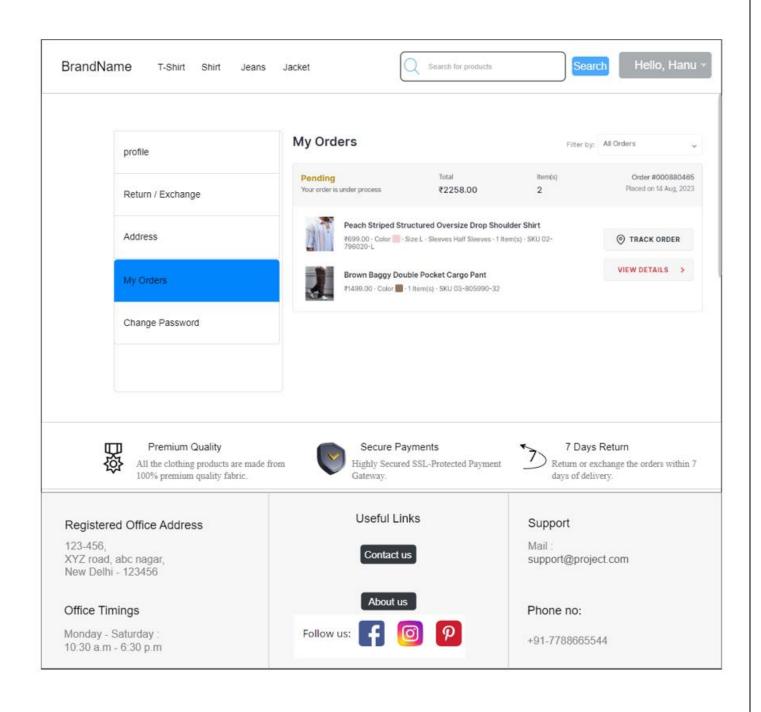
• User Profile:-



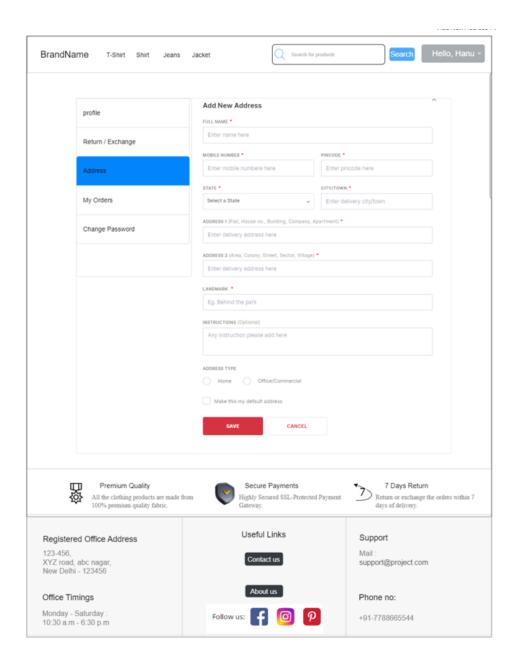
• Change Password Functionality:-



• Order History:-



User Address:-



6 CONCLUSION

The project entitled Fashion 24 x 7 (Online Clothes Shopping Website) was completed successfully.

The proposed web application has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application and provide a secured online platform for clothes shopping.

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using React.js, usage of responsive templates, designing of android applications, and management of database using MySQL. The entire system is secured by using Spring Security. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications.

There is a scope for further development in our project to a great extent. A number of features can be added to this system in future like providing payment gateway for maintenance payment and maintain their records in dashboard. Another feature we wished to implement is the management interface for inventory. These features could have implemented unless the time did not limit us.

7 REFERENCES

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ONLINE REFERENCE

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