CERTIFICATE

This is to certify that the project entitled

"Luxewear: A Fashion Rental Website"

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Are the bonafide students of this institute and the work have been carried out by them under the supervision of **Mr. Jayaram MS** and it is approved for the partial fulfilment of the requirement of Centre for Development of Advanced Computing, for the award of the diploma of **PG-DAC**.

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Place:	
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ABSTRACT

The fashion rental website changes how people think about clothes and style. It has a user-friendly website where you can find many clothes and accessories for men and women from different brands. The cool thing is that you can rent these stylish items for a specific time instead of buying them. The website makes it easy to sign up, look at all the things they have, use search and filters to find what you want, and pay securely. It's a smooth process from choosing what you like to getting it at your doorstep.

What makes the fashion rental website special is how it tries to make fashion more affordable and eco-friendly. You can follow the latest trends without spending too much money, and it's better for the environment. The website also encourages people to share their thoughts by writing reviews and giving ratings. This helps others decide what to rent and creates a sense of community. In a world where fashion changes quickly and being kind to the Earth is important, the fashion rental website makes a positive difference by combining style with responsible choices

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INTRODUCTION

The Online Fashion Rental Website redefines the fashion landscape with its innovative approach to clothing rental services. It caters to both men and women, presenting a diverse collection of clothing items and accessories from renowned brands. Seamlessly integrating a comprehensive range of functionalities, the website offers users a streamlined and exciting journey of style exploration. Its feature set includes user registration and login, an extensive item catalog, efficient search and filtering capabilities, dedicated item detail pages, a user-friendly booking system, secure payment processing, smooth shipping and return management, and an interactive rating and review system.

This blend of services empowers users to effortlessly browse, choose, reserve, and pay for their desired items. The website ensures a reliable shipping mechanism for users to receive their selections. Additionally, users are encouraged to provide valuable feedback, fostering a community-driven fashion ecosystem that is both affordable and convenient.

In the ever-evolving realm of fashion consumption, the Online Fashion Rental Website emerges as an innovative force by offering a transformative rental experience. It challenges traditional purchasing patterns, making high-end fashion more accessible through the rental model. By enabling users to rent rather than purchase, the website champions affordability and convenience while maintaining style standards. With a user-centric approach, the website seamlessly guides users through each step of the process, from selecting items to leaving post-rental reviews. It orchestrates a cohesive experience that redefines the concept of fashion retail.

At its core, the Online Fashion Rental Website reshapes the fashion e-commerce landscape by elevating the concept of clothing rental. Through its sophisticated online interface, the platform not only provides a wide array of fashion choices but also turns each rental into a memorable and engaging experience. By fostering a sense of community through reviews and feedback, the website creates a shared fashion narrative. In a world where rapidly changing trends and sustainability concerns intersect, the website serves as a pioneering solution, bridging style desires with conscious consumption practices.

FEATURES

1.1 PROJECT OBJECTIVE

The project's primary objectives revolve around providing an accessible, sustainable, and enjoyable online platform where users can explore and embrace fashion through a rental model. The platform aims to redefine fashion consumption, making it more affordable, convenient, and environmentally conscious. Enable users to access a diverse range of fashionable clothing items and accessories from various renowned brands without the need to purchase them outright. This promotes affordability and eliminates the need for substantial upfront investments in high-end fashion.

1.2 PROJECT OVERVIEW

The Fashion Rental Website is a pioneering platform that transforms fashion consumption by offering users the opportunity to rent a diverse array of clothing items and accessories. This innovative approach combines convenience, style, and sustainability. With a curated collection from renowned brands, users can easily browse, select, and book items for specific periods. The website facilitates secure payment processing, efficient shipping, and user engagement through ratings and reviews. By promoting a culture of renting, the platform aims to redefine fashion choices, making them affordable, environmentally conscious, and adaptable to modern lifestyles.

1.3 PROJECT SCOPE

The scope of a Fashion Rental Website includes creating a user-friendly platform for individuals to explore, select, and rent a diverse range of clothing items and accessories from renowned brands. This involves intuitive navigation, detailed item pages, and seamless booking processes. The website would offer secure payment options, efficient shipping, and hassle-free returns. Users can engage by providing ratings and reviews, contributing to a

community-driven experience. The platform's sustainability focus promotes eco-conscious fashion choices. Customer support ensures a smooth user journey.

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:

- Administrator
- Customer

1.4.1.1 ADMINISTRATOR

The administrator is the super user of this application. Only admin have access into this admin page. Admin may be the owner of the shop. The administrator has all the information about the users and about all products.

This module is divided into different sub modules.

- 1. Manage categories
- 2. Manage Products
- Add Categories: The Admin can add different kind of category as per the availability of the category.
- Update Categories: The Admin can make changes in saved categories using update.
- **Delete Categories:** The Admin can Delete the categories when there is nothing related that category is not available for the time been.
- Add Products: The Admin can add different products as per the new arrival.
- **Update Products:** The Admin can make changes in saved product by setting the new price using update.
- **Delete Products:** The Admin can delete the product if there is no availability of that product.

1.4.1.2 CUSTOMER

In a fashion rental system, a customer is an individual who engages with the platform to rent clothing items or accessories for a specific period. This interaction can occur online through the website or app, over the phone, or in person at a physical location. The customer's role involves selecting the desired fashion items, specifying preferences such as size, style, and occasion, and providing essential information such as rental duration, shipping address, contact details, and payment information. Once the rental order is confirmed, the customer receives an estimated delivery date and may be notified when the items are ready for shipping or when they are in transit.

The customer's experience extends to engaging with the items, exploring their fashion choices, and showcasing their individual style during the rental period. At the end of the rental duration, the customer returns the items, ensuring they are in good condition. Similar to the pizza ordering scenario, the fashion rental system also encourages feedback and reviews from the customer, contributing to a community-driven approach and enhancing the overall user experience.

- **Sign in, sign out, create account:** This feature is provided to customer so he can sign in, sign out, Google sign in and create account for new customer.
- **Forget Password:** If customer don't remember the password so he can use forget password to create new password.
- **Select the Categories:** Customer can select the category as per his wish list.
- Add to cart: Customer can add products to cart which he wants to buy the products.
- **Payment:** Customer have a privilege to his order he can see his order details.
- **View Product:** Customer can view the product Details.
- **Buy Product:** Customers can buy product from his cart by doing payment.
- User Profile Page: User can see his order and his details.

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.

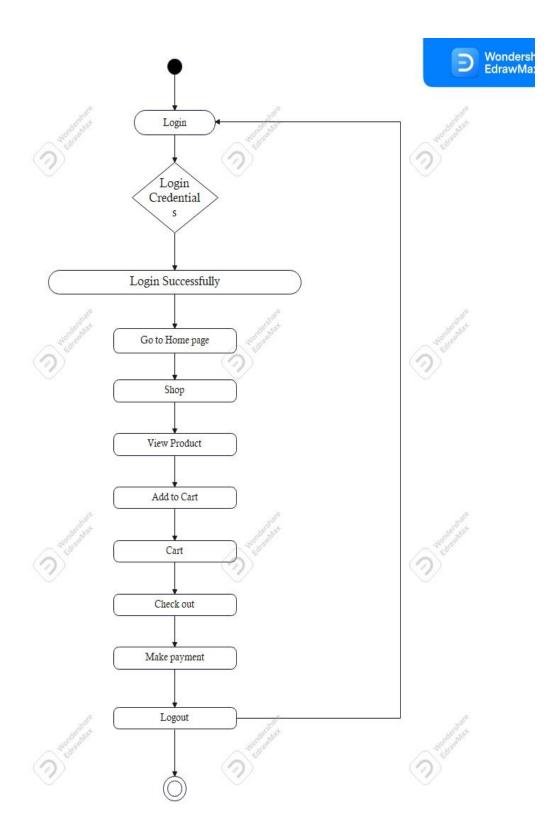
2.1 EXISTING SYSTEM

- **Product Selling:** The primary function is to sell a wide range of products, including electronics, books, home goods, and more, to customers.
- **Personalization:** Some personalization features are present, such as recommended products based on browsing history and purchase patterns.
- Sales and Discounts: Frequent sales, deals, and discounts are offered to attract customers and boost sales.
- **User Profiles:** Users can create profiles, save shipping information, track orders, and manage their preferences.
- **Delivery and Returns:** The website offers various delivery options and has a return policy in place for products that customers are not satisfied with.
- **Customer Support:** A customer support system assists users with inquiries, complaints, and order-related issues.
- Brand Variety: The platform features products from various brands, catering to different preferences.
- **User Reviews:** Customers can leave reviews and ratings for products, helping others make informed decisions.

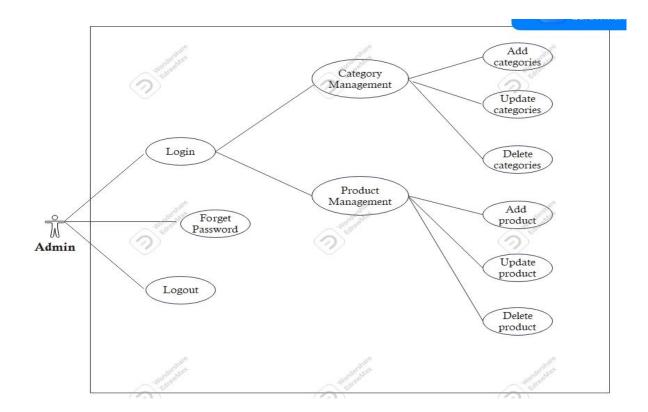
• **Payment Options:** Multiple payment methods are available, including credit/debit cards, digital wallets, and cash on delivery.

2.2 PROPOSED SYSTEM

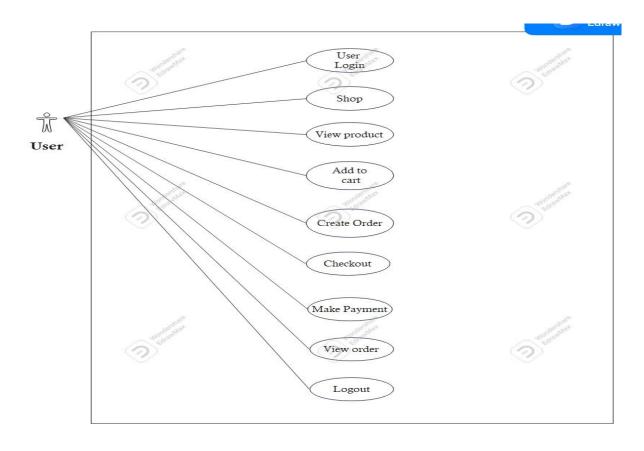
- **Product Renting**: The primary function is to offer a diverse collection of fashion items for rental, focusing on clothing, accessories, and designer wear.
- **Temporary Usage:** Users rent items for specific periods, promoting shared usage instead of permanent ownership.
- Enhanced Personalization: Offers a virtual fitting room and personalized recommendations for users to choose items that suit their preferences.
- **Sustainability:** Emphasizes sustainability by encouraging renting, reducing the environmental impact of fashion consumption.
- **Rental Plans:** Offers various rental plans, allowing users to choose based on their needs, such as one-time rentals or subscription models.
- **Quality Assurance:** Conducts quality checks before each rental to ensure items are in good condition.
- **User Engagement:** Encourages community engagement by allowing users to leave reviews and ratings for rented items.
- **Secure Transactions:** Provides secure payment gateways for rental transactions.
- Collaborations: Collaborates with fashion brands and designers for exclusive rental collections.
- **Convenience:** Simplifies the return process, making it easy for users to return rented items.



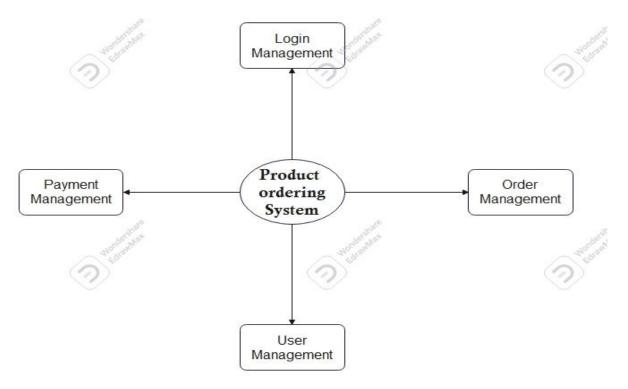
ACTIVITY DIAGRAM



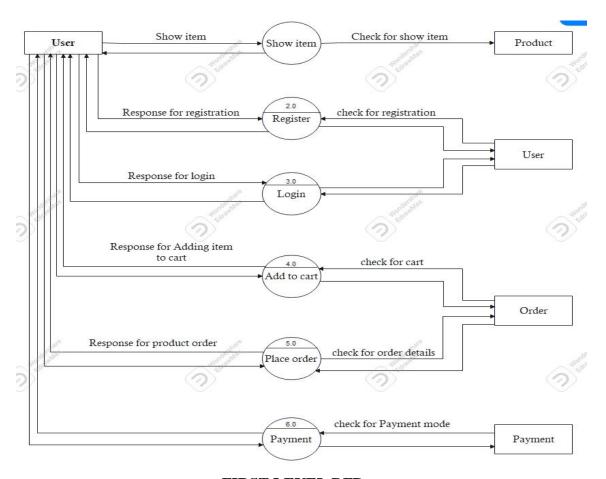
ADMIN SIDE USECASE DIAGRAM



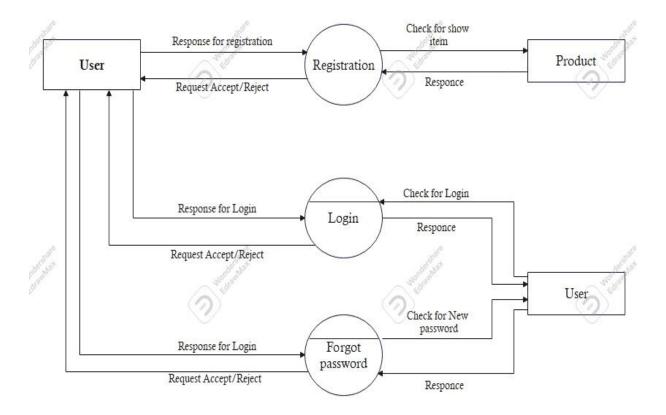
USER SIDE USECASE DIAGRAM



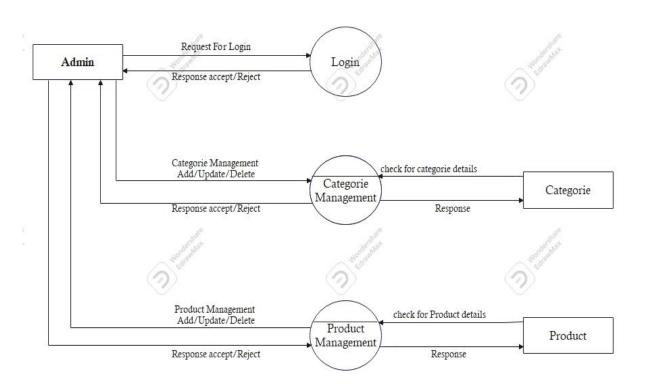
ZERO LEVEL DFD



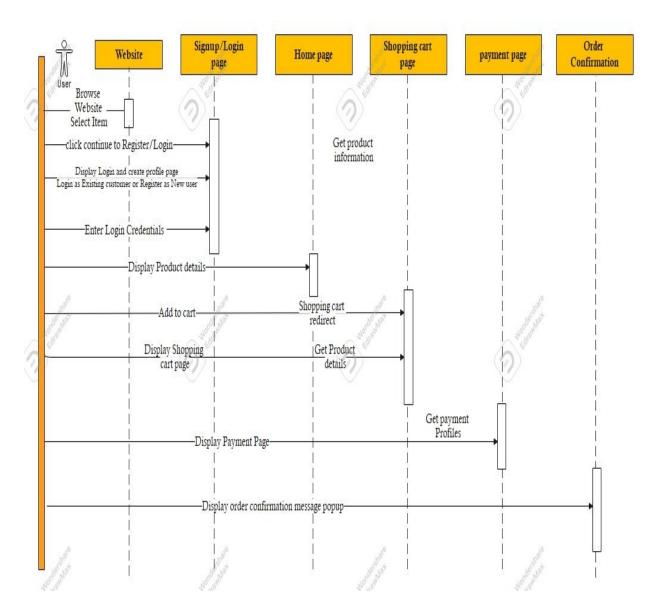
FIRST LEVEL DFD



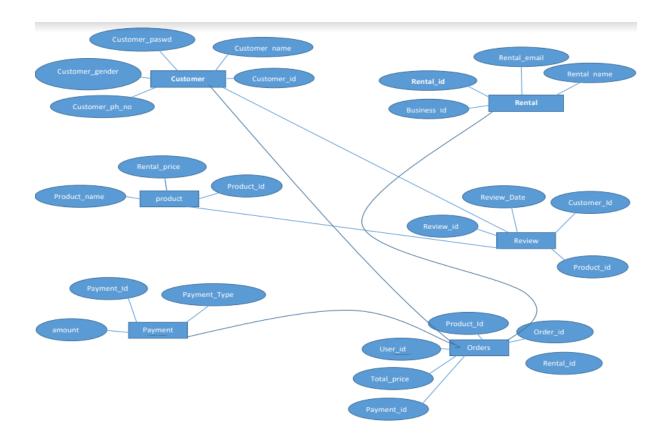
SECOND LEVEL DFD



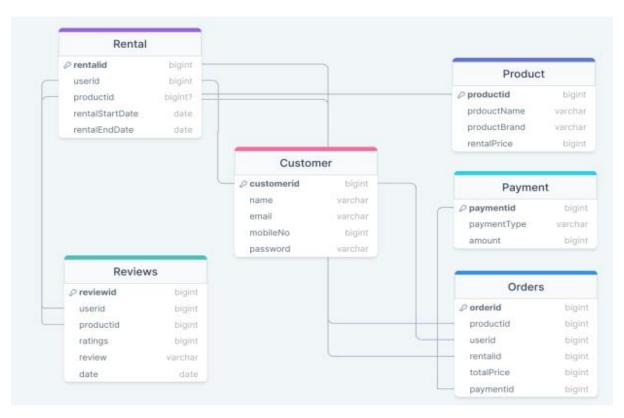
ADMIN SIDE DFD



SEQUENCE DIAGRAM



ER DIAGRAM



CLASS DIAGRAM

2.3 SYSTEM REQUIREMENT SPECIFICATION

2.3.1 GENERAL DESCRIPTION

A Fashion Fusion is a platform that allows users to rent fashion items from a variety of brands and designers. Also, users can register to provide items on rent. The website typically features a searchable catalogue of items, as well as filters to help users find the perfect look. Users can rent items for a specified period of time, review the product. Also, the website will handle all of the logistics, such as shipping, returning.

User Need

- a. A wide variety of fashion items to choose from.
- b. Affordable prices.
- c. Convenient rental process.
- d. Excellent customer service.
- e. A variety of payment options.
- f. The ability to rent items for some period of time.
- g. The ability to return items early or late without penalty.
- h. The ability to exchange items if they are not the right size or style.

Assumptions and Dependencies

- a. Users need to create an account and be registered with the Fashion Fusion Website before accessing its features and services.
- b. The fashion rental app offers different types of memberships with varying benefits, privileges, and fees.

The fashion rental app provides a clear and transparent overview of the benefits, features, and costs associated with each customer type

2.3.2 SYSTEM OBJECTIVE

The primary objectives of our Online Fashion Rental website are:

- **Fashion Accessibility**: Provide users with convenient access to a diverse range of fashionable clothing and accessories for rent.
- **Sustainability**: Promote a more sustainable and eco-friendly approach to fashion consumption by encouraging renting instead of buying.
- User Experience: Deliver a seamless and enjoyable user experience through an intuitive interface, virtual fitting room, and personalized recommendations.
- **Cost Efficiency**: Offer cost-effective alternatives to owning expensive clothing items, allowing users to enjoy high-quality fashion without the high costs.
- **Community Engagement**: Foster a community of fashion enthusiasts by enabling users to share reviews, ratings, and experiences, enhancing trust and engagement.

2.3.3 SYSTEM REQUIREMENT

2.3.3.1 FUNCTIONAL REQUIREMENTS

The complete functional modules of the application include the following:

a. Registration and Login

Allow user to create an account & sign in using email and password or other social accounts. Verify user identity through email verification and two-factor authentication.

b. Search And Filtering

Using this feature using can search for a product & can filter the products using different entities such as price range, new arrivals, colour etc.

c. Item Catalogues

This module allows user to see items catalogue according to occasional base.

d. Booking System

In this module, the user will able to add personal details and address and book the product by selecting the duration to rent the product according to its pricing.

e. Payment Processing

Using this, the user will able to choose payment method according to his convenience such as UPI, COD, Card Payment etc.

f. Shipping and Return Management

The door step delivery will be provided by the Courier service provider within 5 to 7 days. And after duration period is over then door step pickup will be provided if user has to return or he can extend the time period.

g. Customer Support

24*7 customer support will be provided for any queries regarding shipment or tracking the product or to know the details of the product.

h. Ratings and Review System

This system allows user to rate the products which he purchased so that other users can get assurance about that particular product.

2.3.3.2 EXTERNAL INTERFACE REQUIREMENTS

a. Payment Gateway:

- i. Secure payment gateway integration: Integrate a reliable and secure payment gateway to process transactions, supporting various payment methods. Pricing and billing: Calculate rental charges, additional fees (such as cleaning or late fees), and provide clear billing statements to users. Payment reminders: Send automated reminders for upcoming or overdue payments.
- ii. Inventory Management: Item catalogue management: Provide an interface for administrators to manage and update the inventory, including adding new items, updating availability, and removing rented or unavailable items.
- iii. Size and availability tracking: Keep track of item availability based on size, style, and other attributes to ensure accurate information is displayed to users.

b. Communication and Support:

- i. Include contact information and options for users to reach customer support or ask questions regarding rentals, returns, or other inquiries.
- ii. Chat or messaging feature: Provide a communication channel for users to communicate with customer support or with other users, such as for inquiries, size recommendations, or item requests.

c. Integration with Third-Party Services:

i. Integrate with external services such as shipping providers for tracking deliveries, inventory management systems for real-time availability, and analytics tools for monitoring website performance and user behaviour.

2.3.3.3 NON-FUNCTIONAL REQUIREMENTS

a. Security:

Ensure that the platform is secure and uses encryption to protect user data, including personal information and payment details.

Ensure that the platform is compliant with data privacy laws such as GDPR and CCPA, protecting user data and providing users with control over their data. Implement a privacy policy and terms of service that outline how user data is collected, used, and protected.

b. Performance:

Ensure that the platform is fast and responsive, with quick load times for pages and search results. Ensure that the platform can handle high traffic volumes during peak rental periods such as occasions & festivals.

c. Scalability:

Design the platform to be scalable and able to handle a growing number of users. Implement load balancing and other techniques to distribute traffic and prevent overload on the server.

d. Reliability:

Ensure that the platform is reliable and able to handle a high volume of traffic without crashing or experiencing downtime. Implement backup and recovery systems to ensure that data is not lost in the event of a system failure.

e. Accessibility:

Implement features such as keyboard navigation to improve accessibility.

f. Usability:

Ensure that the platform is easy to use and navigate, with intuitive user interfaces and clear instructions for tasks such as adding a product to cart for rent & wish list also.

g. Maintainability:

Design the platform with maintainability in mind, making it easy to update and modify as needed. Use modular and well-structured code to make it easy to identify and fix bugs and add new features.

SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis on translating design. Specifications to performance specification. System design has two phases of development.

- Logical Design
- Physical Design

During logical design phase the analyst describes inputs (sources), outputs(destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

3.1 INPUT AND OUTPUT DESIGN

3.1.1 INPUT DESIGN

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design. The user-originated inputs are converted to a computer-based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

3.1.2 OUTPUT DESIGN

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

3.2 DATABASE DESIGN

3.2.1 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are:

- Primary key the field that is unique for all the record occurrences
- Foreign key the field used to set relation between tables Normalization is a technique to avoid redundancy in the tables.

3.2.2 TABLE STRUCTURE

• USERS:

	Field	Type	Null	Key	Default	Extra
>	id	int	NO	PRI	NULL	auto_increment
	email	varchar(255)	NO	UNI	NULL	
	first_name	varchar(255)	NO		NULL	
	last_name	varchar(255)	NO		NULL	
	password	varchar(255)	YES		NULL	

• ROLES:

	Field	Туре	Null	Key	Default	Extra
•	id	int	NO	PRI	NULL	auto_increment
	name	varchar(255)	NO	UNI	NULL	

• USER ROLE:

	Field	Туре	Null	Key	Default	Extra
•	user_id	int	NO	MUL	NULL	
	role_id	int	NO	MUL	NULL	

• CATEGORY:

	Field	Туре	Null	Key	Default	Extra
>	category_id	int	NO	PRI	NULL	auto_increment
	name	varchar(255)	YES		NULL	

• PRODUCTS:

	Field	Туре	Null	Key	Default	Extra
)	id	bigint	NO	PRI	NULL	auto_increment
	description	varchar(255)	YES		NULL	
	image_name	varchar(255)	YES		NULL	
	name	varchar(255)	YES		NULL	
	price	double	NO		NULL	
	quantity	int	NO		NULL	
	weight	double	NO		NULL	
	category_id	int	YES	MUL	NULL	

3.3 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.3.1 FRONT END

Thymeleaf is a powerful and versatile templating engine for front-end development within Spring Framework applications. It seamlessly integrates with Spring, offering a wide array of features that make it a popular choice for building dynamic and responsive web applications:

- **Natural Templates**: Thymeleaf templates resemble regular HTML, making them easy to read and maintain, even for developers who are not familiar with the templating engine.
- **Server-side Rendering**: Thymeleaf performs server-side rendering, allowing dynamic data to be incorporated into the templates before they are sent to the client's browser.
- Expression Language: Thymeleaf provides a rich set of expression language (Thymeleaf Expression Language or "th:text") that enables the embedding of variables, conditions, iterations, and more directly into HTML attributes and content.
- **Data Binding**: It supports bidirectional data binding, automatically updating the user interface when the underlying data changes.
- Layouts and Fragments: Thymeleaf supports layout templates and fragment inclusion, streamlining the process of creating consistent layouts and reusing components.
- **Internationalization:** Thymeleaf simplifies the implementation of internationalization and localization by allowing dynamic insertion of localized content into templates.
- **Spring Integration:** Being a natural fit for Spring, Thymeleaf easily integrates with Spring MVC, allowing seamless interaction between the back end and front end.
- **Data Iteration:** Thymeleaf's iteration features (th:each) make it straightforward to loop through collections and arrays, rendering data dynamically.
- **Form Handling:** It assists in generating and processing HTML forms by binding form fields to Java objects, simplifying form handling and validation.
- **Conditional Rendering:** Thymeleaf enables conditional rendering of elements using th:if and th:unless attributes, enhancing dynamic content display.

- **URL Handling:** Thymeleaf provides URL manipulation capabilities through th:href, facilitating the creation of links with dynamic parameters.
- **Fragment Caching:** The engine supports fragment caching (th:fragment) to improve performance by caching parts of the template.
- **Security:** Thymeleaf helps prevent cross-site scripting (XSS) attacks by automatically escaping content by default.
- Extensions and Customization: It allows the creation of custom dialects and processors to extend its functionality for specific project needs.
- **Documentation and Community:** Thymeleaf has comprehensive documentation and a supportive community, making it easy to find resources and solutions to common challenges.

Overall, Thymeleaf's seamless integration with Spring, combined with its readability, versatility, and feature-rich capabilities, positions it as a strong choice for building dynamic and interactive front ends in Spring-based web applications.

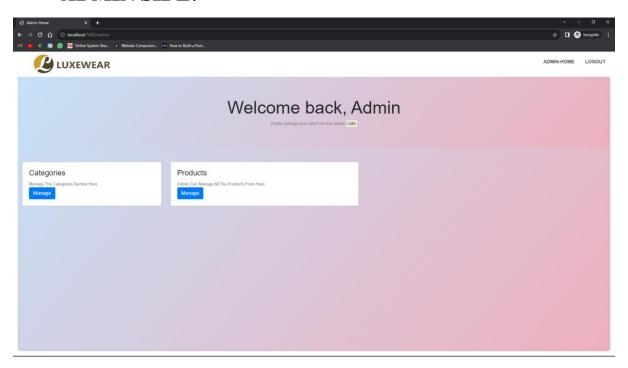
3.3.2 BACKEND

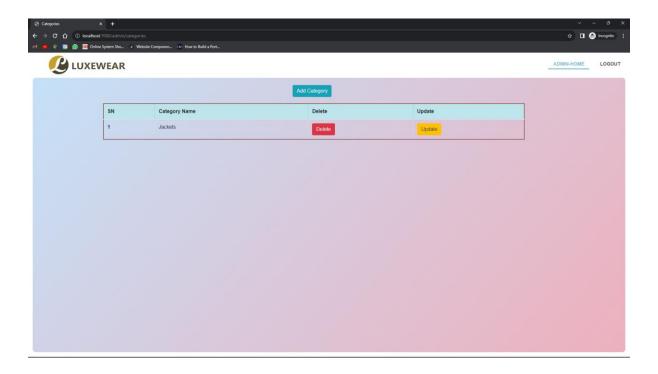
The back end is implemented using Spring boot and MySQL which is used to design databases.

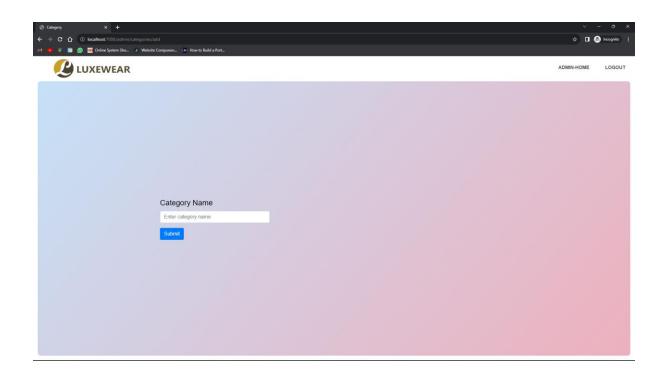
- MySQL: MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. An application software called Navicert was used to design the tables in MySQL.
- **Spring-Boot**: This is used to connect MYSQL and fetch data from database and store the data in database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Opensource Framework.

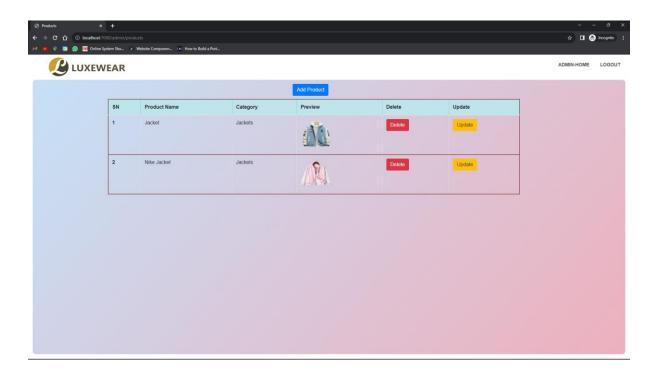
PROJECT DIAGRAM

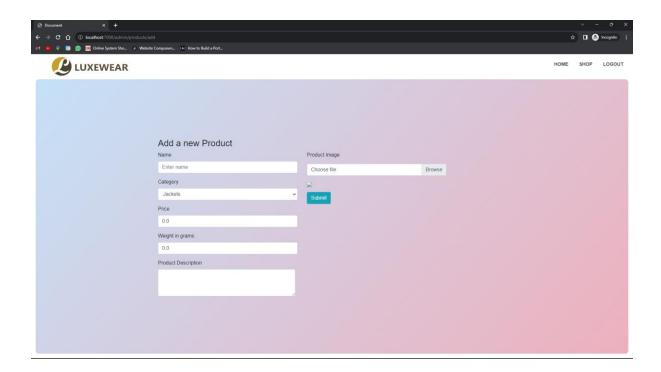
• ADMIN SIDE:



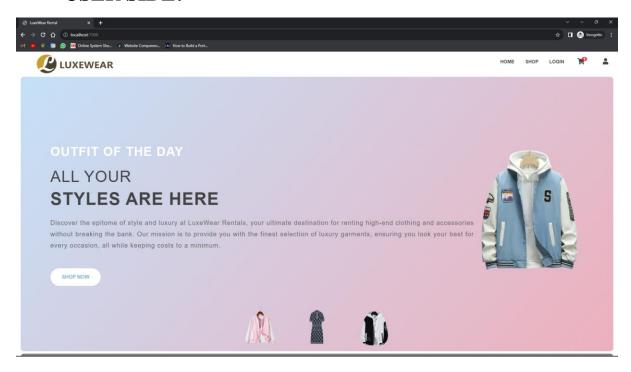


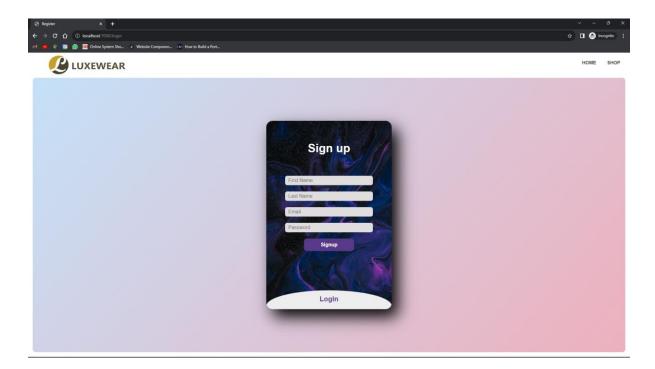


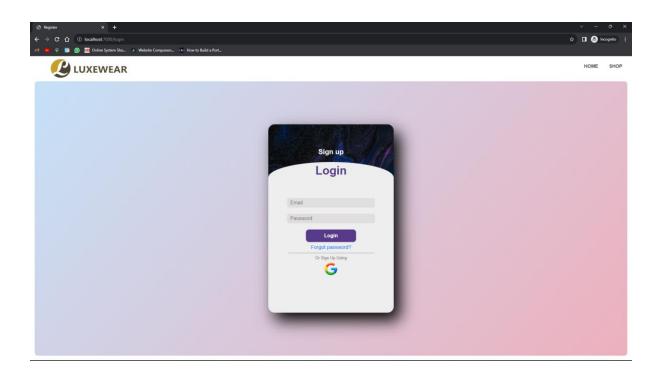


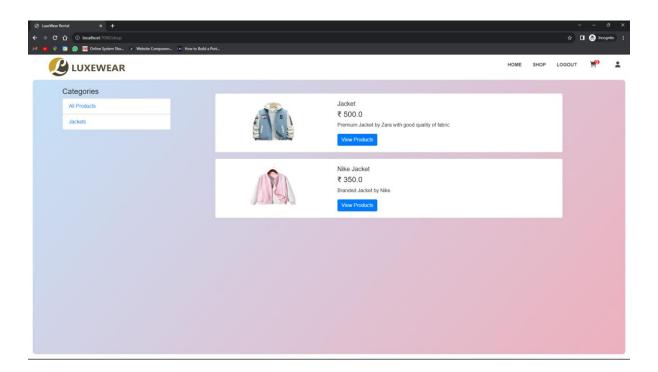


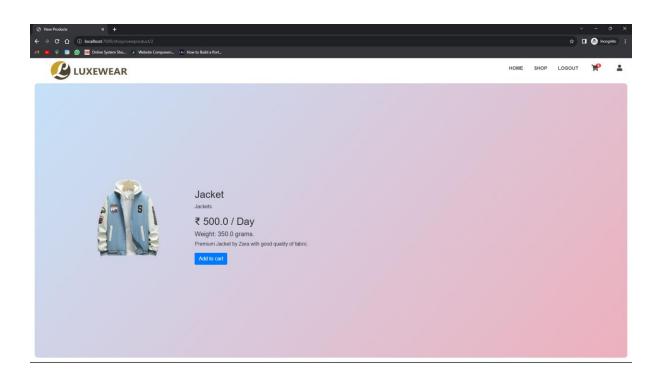
• USER SIDE:

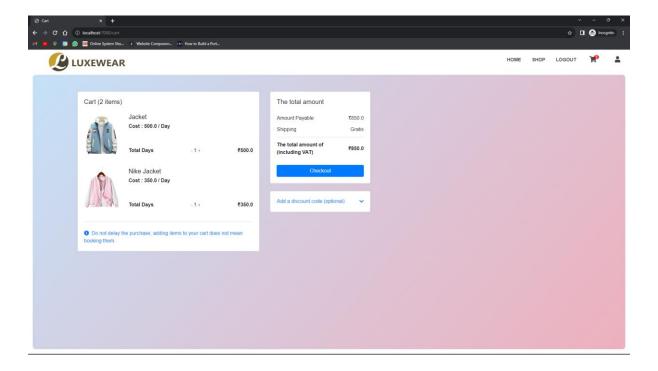


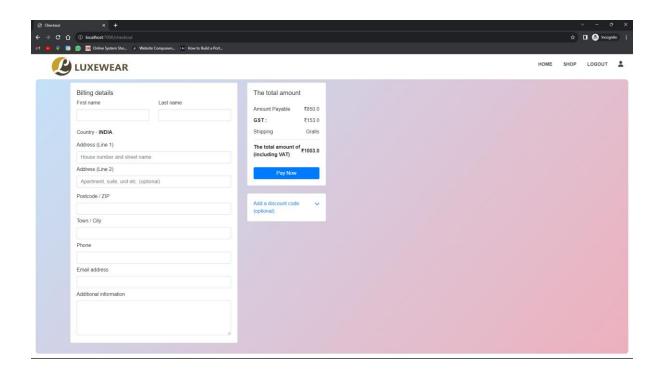


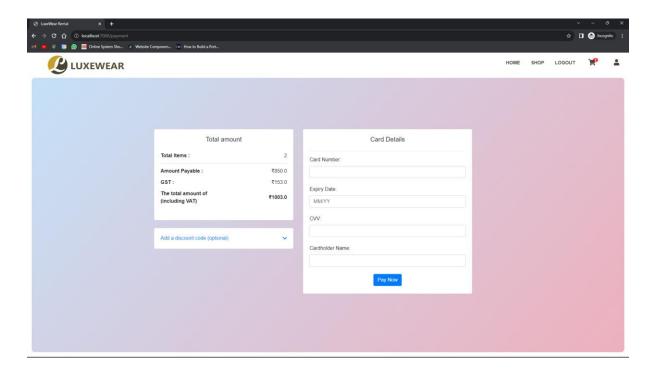


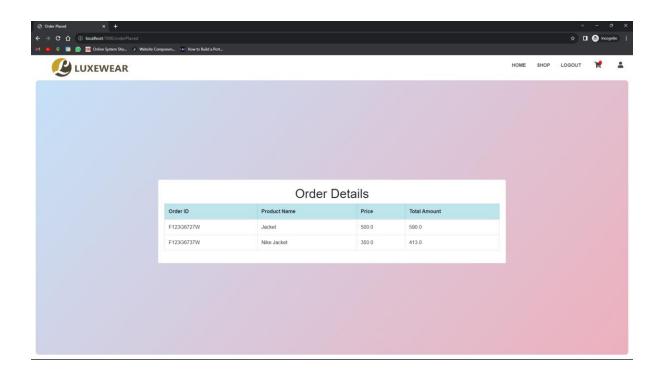












CONCLUSION

In conclusion, the development and implementation of the Fashion Rental Website project represent a significant stride towards revolutionizing the way individuals engage with fashion. This innovative platform bridges the gap between contemporary fashion trends, sustainability, and user convenience. Through meticulous planning, design, and integration, we have successfully created a system that caters to the evolving needs and preferences of modern fashion enthusiasts.

The Fashion Rental Website offers a plethora of benefits, ranging from providing users access to a diverse and trendy collection of clothing and accessories to fostering a more ecoconscious approach to fashion consumption. The integration of user-friendly features such as the virtual fitting room, personalized recommendations, and flexible rental plans enhances the overall user experience, making fashion exploration and selection an enjoyable journey.

Moreover, the project aligns with the growing movement towards sustainable fashion practices by encouraging users to embrace renting over traditional buying, thereby contributing to the reduction of fashion's environmental impact. By promoting the idea of shared usage and reducing fashion waste, the platform embodies the ethos of conscious consumerism.

The successful implementation of secure payment gateways, quality assurance measures, and efficient customer support underscores our commitment to user trust and satisfaction. Furthermore, the Fashion Rental Website demonstrates the seamless integration of technology, design, and functionality, reflecting our dedication to delivering a reliable and cutting-edge solution.

In conclusion, the Fashion Rental Website project not only fulfills its intended purpose of providing a dynamic and engaging online fashion rental experience but also sets a precedent for future projects that seek to combine innovation, sustainability, and user-centric design. This venture has highlighted the potential of technology to reshape industries and empower individuals to make informed, stylish, and environmentally responsible choices.

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