Deliverable 2

Araadia Clothing Store

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System's Functional Requirements:

1. **User Registration and Login:** The system should allow users to create an account and login using their credentials to access the online store and do shopping.
2. **Product catalog:** The system should be able to store, delete and edit the items that are being sold
3. **Shopping cart:** It should enable users to add items to cart, view items and proceed to checkout.
4. **Payment processing:** The system should be able to process bank details and deduct money if order is placed using online payment method
5. **Wish list:** The system should be able to maintain a wish list for each customer.
6. **Inventory management:** It should enable admins to manage the inventory.
7. Integration with payment processing services

System's Non Functional Requirements:

Product Requirements:

1. **Performance:** The system should be designed to handle a large volume of traffic and transactions, with fast response times, minimal downtime, and optimal server load balancing.
2. **Reliability:** The system should be reliable and have a backup plan.
3. **Security:** It should implement different layers of security measures so that the user information should be protected.
4. **Scalability:** The system should be scalable without compromising performance.
5. **Usability:** It should be easy to use and navigate with clear and concise instructions.

Organizational Requirements:

- **Privacy:** The data of the customer should be kept private and not be accessed by unauthorized personnel
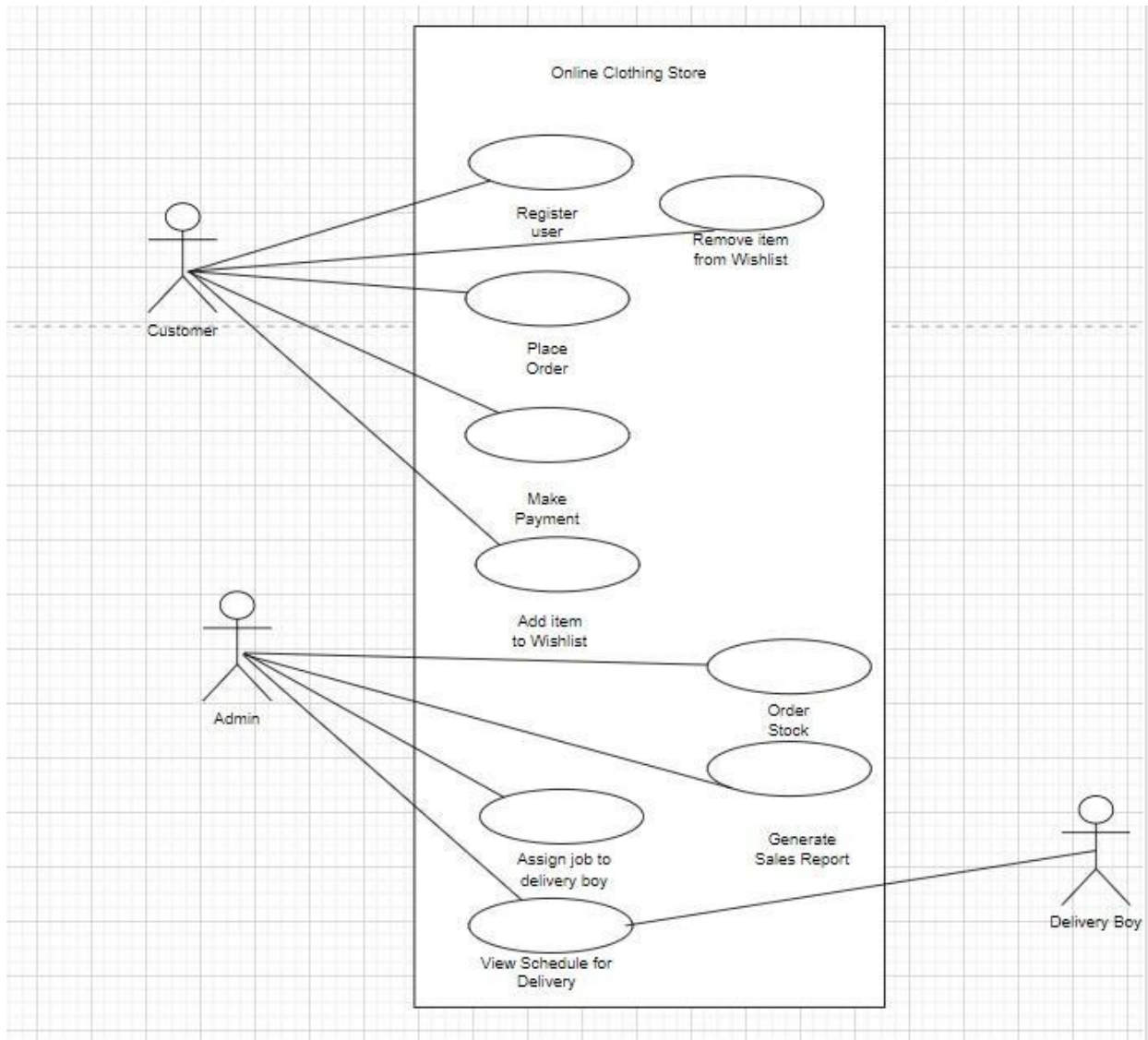
External Requirements:

- Compliance with national and international laws that relate to e-commerce

Use Cases for Use Case Diagram and their descriptions:

1. **Register User:** This use case allows new users to create an account on the online clothing store, which requires providing personal information such as name, email address, and password.

2. **Order Stock:** This use case allows the store's admin to order new stock from the supplier. This can include order in bulk.

3. **Place Order:** This use case allows customers to enter their details of shipping and billing then make payment and place the order to get a confirmation e-mail.

4. **Make payment:** This use case allows customers to make payment for their orders.

5. **Generate sales report:** This use case allows admin to generate a report which shows the items sold in different periods of times. It allows admin to generate different reports for analysis or to keep record of different things

6. **Add item to wish list:** This use case allows registered users to add items to wish list. This can help them to keep track of items in which they are interested.

7. **Remove item from wish list:** This use case allows users to remove items from clothing stores. This can help them to keep their wishlist up to date and remove items in which they are no longer interested.

8. **Assign job to delivery boy:** This use case allows Admin to assign a delivery job to one of the delivery boys based on the schedules of the delivery boy. First the admin checks for the delivery boy who is available for the job and then assigns them that.

9. **View schedule for delivery:** It allows delivery boys to view their delivery schedule and related details, when and where to deliver. This can help in ensuring that orders should be placed on time.

USE CASE DIAGRAM:

Online Clothing Store

Customer

Register user

Remove item from Wishlist

Place Order

Make Payment

Add item to Wishlist

Admin

Order Stock

Generate Sales Report

Assign job to delivery boy

View Schedule for Delivery

Delivery Boy

User Stories:

1. **Register user:** As a new user, I want to be able to register for an account so that I can make purchases.

2. **Order Stock:** As an online clothing store manager, I want to be able to order new stock from suppliers so that I can keep my inventory up to date.

3. **Place Order:** As a customer, I want to be able to place an order so that I can get products of my choice.

4. **Make payment:** As a customer, I want to be able to select a payment method and make payment so that I can finalize my order.

5. **Generate sales report:** As an Admin, I want to be able to see all the sales that have been made so I can analyze which things sell more and on what day sales are more.

6. **Add item to wish list:** As a customer I would like to add items to wish list so I can save items I like for whenever I want to buy them.

7. **Remove item from wish list:** As a customer, I want to be able to remove items from wish list so I do not have things I no longer have things i don't want on it.

8. **Assign job to delivery boy:** As an admin, I want to be able to assign delivery jobs to delivery staff so that orders reach the customers on time.

9. **View schedule for delivery (delivery boy):** As a delivery boy, I want to be able to view my upcoming delivery schedule so that I can ensure timely deliveries.

10. **View schedule for delivery (Admin):** As an admin, I want to be able to view delivery schedules of delivery boy so that I can see if jobs are being assigned fairly.

11. **Customer Login:** As a customer, I want to be able to login into my account so that I can make purchases.

12. **Admin Login:** As an admin, I want to be able to login into my account so that I can access admin privileges.

13. **Manage Items:** As an admin, I want to be able to manage items so that I can add, retrieve, delete, and update items.

Pre and Post Conditions:

1. **Register User**
   <u>Precondition:</u> System is functional
   <u>Post condition:</u> Successfully registered

2. **Order Stock**
   <u>Precondition</u>: Admin is logged in
   <u>Post condition</u>: The Supplier receives the order and System is updated

3. **Place Order**
   <u>Precondition:</u> Customer should be on the website and customer should be logged in
   <u>Post condition:</u> Payment is made and recorded into the system. Tax is collected. Payment Authorization approvals are recorded.

4. **Make payment**
   <u>Precondition:</u> User is logged in and entered their shipping address correctly
   <u>Post condition:</u> Payment is made and recorded into the system. Tax is collected. Payment Authorization approvals are recorded.

5. **Generate sales report**
   <u>Precondition:</u> Admin is logged in
   <u>Post condition</u>: Report is generated and saved in the system. System is updated.

6. **Add item to wish list**
   <u>Precondition:</u> Customer is an active user in the system.
   <u>Post condition:</u> Item added into wish list

7. **Remove item from wish list**
   <u>Precondition:</u> Customer is active user in the system, Item user wants to remove is already in his wish list.
   <u>Post condition:</u> Item removed from the wish list

8. **Assign job to delivery boy**
   <u>Precondition:</u> Delivery boy is authenticated
   <u>Post condition:</u> Job is assigned; Order get departure

9. **View schedule for delivery**
   <u>Precondition:</u> Rider is logged in
   <u>Post condition:</u> Rider's schedule is viewed

Product Backlog:

ID	As a…	I want to be able to …..	So that…..	Priority	Sprint	Status
1	Customer	register	So I can place order	must	1	Yet to start
2	Customer	Place order	So I can receive the goods	must	3	Yet to start
3	Customer	Make Payment	So I can buy things	must	3	Yet to start
4	Customer	Add things to wish list	So I can keep track of things I want to order	must	2	Yet to start
5	Customer	Remove items from wish list	So I don't have things I no longer want in the wish list	should	2	Yet to start
6	Admin	Order stock	So store does not run low on inventory	must	1	Yet to start
7	Admin	Generate Sales report	So I can see trends and hottest selling items	must	3	Yet to start
8	Admin	Assign job to delivery Boy	So no package gets left behind	must	2	Yet to start
9	Admin	View schedule for delivery boy	To ensure work is being equally divided	should	2	Yet to start
10	Delivery Boy	View schedule for delivery boy	To know what job he has been assigned and for when	must	3	Yet to start
11	Customer	Log in	So i can place order	must	1	Yet to start
12	Admin	Log in	So i can access admin privileges	must	1	Yet to start
13	Admin	Manage Items	So i can increase inventory	must	1	Yet to start

Sprint Backlog:

- **1st Sprint:**

ID	User Story	Tasks	Estimated Time
1	As a new user, I want to be able to register for an account so that I can make purchases.	Create user registration form	2 Days
		Validate user input	
		Implement user registration functionality	
		Store user registration data in database	
2	As an online clothing store manager, I want to be able to order new stock from suppliers so that I can keep my inventory up to date.	Place order with supplier and confirm delivery date	2 Days
		Receive delivery and update the inventory	
3	As an admin, I want to be able to manage items so that I can add, retrieve, delete, and update items.	Design and implement the user interface for managing items	3 Days
		Implementing the CRUD operations	
		Integrating User interface and CRUD functionalities	
4	As a customer, I want to be able to login into my account so that I can make purchases.	Design the login page	2 Days
		Implement login functionality	
		Implement the code for validation of user credentials against the database	
5	As an admin, I want to be able to login into my account so that I can access admin privileges.	Design login page for Admins	4 Days
		Implement login functionality for admin	
		Implement the code for validation of user credentials against the database	

- **2nd Sprint:**

ID	User Story	Tasks	Estimated Time
1	As a Customer, I want to be able to add things to wish list so that I can keep track of things I want to order	Implement search functionality for the store	2 Day
		Implement clicking on picture on the store and it changing page to display product details	
		Design each product detail page	
		Implement add to wish list button which add the object to wish list	
2	As a customer, I would like to remove items from wish list so I do not clutter my wish list with things I no longer want	Implement functionality to search with in the wish list	1 Day
		Implement functionality to remove from wish list	
3	As an admin, I want to be able to view delivery schedules of delivery boy so that I can see if jobs are being assigned fairly.	Design user interface for admin view of delivery schedules.	1 Day
		Integrate user interface with delivery boy schedule database	
		Implement user interface so that admin can view schedules	
4	As an admin, I want to be able to assign delivery jobs to delivery staff so that orders reach the customers on time.	Design page to ask for slot in which job is supposed to be performed	2 Days
		Implement a functionality to search for free delivery boy	
		Implement a form which ask for delivery details	
		Implementation of a form that asks for job details	
		Implement function that adds it to the delivery boy's schedule	

- **3rd Sprint:**

ID	User Story	Tasks	Estimated Time
1	As a customer, I want to be able to place an order so that I can get products of my choice.	Design order placement page Implement the order place functionality Integrate the place order with payment processing	1 day
2	As a customer, I want to be able to select a payment method and make payment so that I can finalize my order.	Design the UI for make payment process Implement the make payment functionality Update the inventory database.	2 days
3	As an Admin, I want to be able to see all the sales that have been made so I can analyze which things sell more and on what day sales are more.	Design the UI for the display the items, sales report page Retrieve sales data from database and display them	1 day
4	As a delivery boy, I want to be able to view my upcoming delivery schedule so that I can ensure timely deliveries.	Design user interface for the delivery boy to view schedule. Create database for delivery schedule Integrate the UI and database to retrieve schedule Display the delivery schedule data on the page	3 days

Prototyping:

Log in

Username

Password

don't have an account? Sign up

Araadia clothing store

Admin Acc   Customer Acc

Best Sellers!

girl's raincoat   Ladies coat   unisex jeans

Araadia clothing store

Admin Acc   Customer Acc

product name

Size
Material
Description
Price:

Araadia clothing store

CHECK OUT

Table 1

Item Name	Quantity	Price
Item Name 1	5	price * quantity
Item Name 2	3	price * quantity
		total

Continue shopping   proceed to payment

Araadia clothing store

Category Name

item name 1   item name 1   item name 1

item name 1   item name 1   item name 1