

# **Information Systems Analysis and Design**

**MSIS 2602**

**Project Report**

**On**

**Rental Restyle**



**Guided By**

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## ***Project Sponsor: Rental Restyle Private Limited***

### ***About our Business:***

Rental Restyle is a platform which features different types of dresses and dresses, catering to different occasions and multiple cultural groups on rent for up to 8 days. The service enables customers to rent dresses according to their needs. We curate designs from various top designers, in accordance to the latest trends. Our aim is to deliver high street design, at pocket friendly prices, just for our customer's convenience.

### ***Business Need***

With the development of an information system, the customer can browse the collection based on latest trends, based on their sizes, the kind of occasion they are trying to find the perfect dress for and a specific designer.

Doorstep delivery makes these dresses accessible at the customer's convenience. We try to make sure that our dresses come back to us in proper condition because at Rental Restyle, we firmly believe in utmost customer satisfaction and so the hygiene and condition of the dresses is our top priority. The development of a new Information System will help us achieve this.

### ***Business Requirement***

Using an information system, we will be able to monitor the rentals of the high-end designer dresses given to the customers and prevent any loss, damage or theft of the designer dresses. The system will also help ensure timely delivery of clothes to the customers and help maintain customer satisfaction by making the process of renting dresses hassle-free.

The system should provide the following specific functionalities:

- 1) System allows designers to create an account and upload all their designs in a catalog for customers to view and select.
- 2) System allows customers to create an account and browse through different designer catalogs to rent dresses from.
- 3) System allows customers to make payments online.
- 4) System helps with tracking the delivery status of the dresses from designer location to customer.
- 5) System automatically checks for out of stock dresses in the user selection and gives updated selection to user for approval.
- 6) The order system is followed by fulfillment and shipment process and customer is notified and provided with an order tracking number.

## ***Business Value***

The system will help us focus on customers in and around the San Francisco bay area and would help us generate business value by increasing customer satisfaction which in turn will be done by:

- 1) ***Reducing time length***: The system will help us bring high street fashion online and hence makes the process of renting clothes hassle-free with the advent of technology.
- 2) ***Pocket Friendly Prices***: It will reduce the cost of buying actual dresses for the customer as they can rent dresses which they would like to wear on a few numbers of occasions.
- 3) ***Adding Flexibility***: The system aims at adding flexibility to the customers as well as the designers. The customers can access various dresses based on their dates, size and occasion across different designer labels.
- 4) ***Doorstep Delivery***: Rental Restyle delivers the clothes from the designer store to customers specified locations.
- 5) ***Creation and Expansion of market share***: The system will enable designers expand their market share by catering to a different market segment.

## ***Functional Requirements***

### ***1. PROCESS ORIENTED***

#### **Create new user Account for Customer:**

- The system should allow the customer to create an account.
- The system should take all the information from the customer.
- The system should create a user dashboard for the customer.
- The system should send a validation link to the customer's specified mail id in order to verify the details and validate the customer.

#### **Validate or update existing customer details:**

- The system should validate the returning customers
- The system should allow the customers to update/change existing details
- The system should allow the customers to close the account as and when required

#### **Create new User account for Designer:**

- The system should allow the designer to create an account.
- The system should take all the information and details from the designer.
- The system should create a user dashboard for the designer.
- The system should allow the designer to create catalogs for different categories and upload and modify the catalogs as per their choice.
- The system should send a validation link to the designer's specified mail id in order to verify the details and validate the customer.

- The system should allow the designer to upload certain designs in order to validate the authenticity of the designer.

#### **Browse and Add dresses to cart:**

- The system should allow Customers to browse the website and the different catalogs uploaded by different users.
- The system should allow customers to choose dresses based on the following filters:
  - Size
  - Ethnicity
  - Latest Trends
- The system should show the available dresses based on the user's filter.
- The system lets the user rent the dress based on the available date on the basis of a drop-down calendar based on an 8-day rental period.
- The system should display the rental price and the security deposit.
- The system should allow the user to add their selected dress/dresses to cart based on the availability of the dresses on their selected dates and keeps updating the cart.

#### **Place an Order:**

- The system should allow the customers to confirm the dresses in their carts and proceed to user checkout.
- The system should allow the users to select, add or modify their shipping details and display shipping preferences to the customer.
- The system will validate the payment details via third party payment clearing house.
- Once the system gets an update, the system should send an email notification to the customer which contains the order confirmation.
- The system should notify the designer about the selection of their designed dress and ask the designer to update and validate the condition of the dress before it is made ready for pickup.

#### **Process the order:**

- The system should notify the third-party delivery services 2 days before the rental start date.
- The system should send the tracking id to the user once the shipment has been picked up from the Designer location.
- The system should direct the customers to the third-party logistics website to track their order.
- The system should notify the designer and the customer once the delivery of the dress is completed by the Third-party logistics company.

#### **Return of dress:**

- The system sends a reminder e-mail to third party logistics house one day before the rental end date of the dress.
- The system allows the user to extend the rental period of the dress only 48 hours prior to the end of the rental period.

- Once the dress has been picked up it is returned to the designer location.
- The dress is inspected by the designer who updates the condition in the system.
- The system notifies the user if the dress is found damaged and deducts a certain fee from the security deposit.

## ***2. INFORMATION ORIENTED***

- The system should store the customer details including the customer id, name, email id, contact details, login details, shipping address and payment details in Customer Data Store.
- The system should store the designer details including the designer id, name, email id, contact details, login details, pickup address and bank details in Designer Data Store.
- The system will save the updated details (contact, password, shipping address, payment details) of the user in Customer Data Store.
- The system will maintain the availability of the dresses, condition of each dress, original cost and the rental cost Catalog Data Store.
- The system must store the records for a dress and the number of times it has been rented in the Catalog Data Store.
- The system must store the real time conditions about the availability of the dress, if it is available, if it is out for rent and the latest date it is going to be available in the Catalog Data Store.
- The system must save the condition of a dress and will update it each time an dress comes back from the customer in the Catalog Data Store.
- The system should maintain a log of problems faced by the customer during the process of renting the dress, placing an order and delivery in the Customer Data Store.
- The system shall save the order details of an order placed by the user in the Order Data Store.
- The system shall keep a track of dates, and the date a dress should come back by to keep a track of late returns in the Order Data Store.
- The system must maintain a track of all designers whose dress are listed on the website in the Designer Data Store.
- The system should retain the customer details in the customer data store for as long as the customer account is activated.
- The system should retain the order history till 5 years in the order data store
- The system should retain real-time database entries
- The system should retain all system failure reports for future purpose.

## ***Non- Functional Requirements***

### ***1. OPERATIONAL***

- The system should be accessible from wide range of devices.
- The system should work on multiple platforms
- The system should be able to work on different Web Browsers
- The system should only Rental Restyles internal networks or portable network devices so that no employee can change the data store entries remotely.
- The system should have an entry for every log-in and logout by the users

### ***2. PERFORMANCE***

- The interactions between user and the system should be real time
- The system should download new status parameters within 5 minutes of a change
- The system should be able to efficiently store and retrieve large amounts of data
- The system should quickly fetch all the records of customers. Shipments, vehicles and other details as and when needed.
- The system should be available for use 24 hours per day, 7 days per week and 365 days per year.
- The system should allow multiple (200) simultaneous users from different locations from 6:00 am to 8:00 pm and 100 users at all times

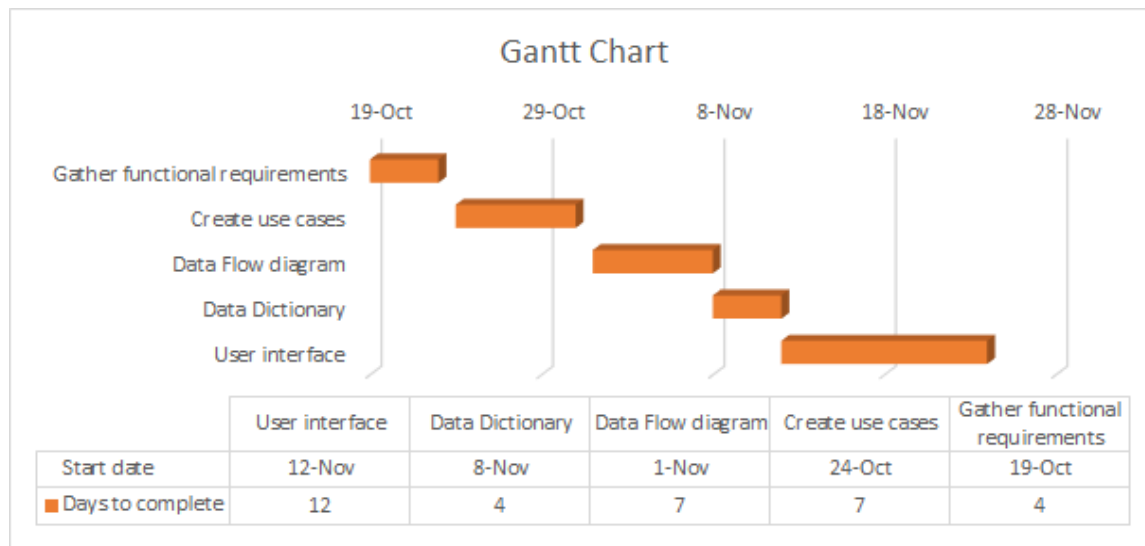
### ***3. SECURITY***

- The system should be accessed by only the registered employees of Worldwide wardrobe.
- Only few employees should be able access the customer information.
- The system should provide all available safeguards from viruses, worms, Trojan horses, etc.
- The shipping information should be confidential and should be accessed by the managers only.
- The payment information of the customers should be encrypted
- The system should timeout if suspects no activity till 20 minutes.

### ***4. CULTURAL AND POLITICAL***

- The system should verify the work authorization of all the employees to ensure whether they are eligible to work or not.
- The system should protect the personal information in compliance with the Data Protection Act.
- The system should be able to accept only US currencies for payment purposes
- The system should run according to the US shipment laws and operate with respect to
- The regulations of international waters

## ***Gantt Chart***





## Use Cases

Use Case Name: Create new Customer account		ID: UC-1	Priority: High
Brief Description: The use case describes how a new customer interacts with the system's web interface to create a new account.			
Actor: Customer			
Trigger: Customer decides to search and rent outfits from Rental Restyle			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: <ol style="list-style-type: none"> <li>1) System web interface should be available and online.</li> <li>2) Customer datastore is available and online.</li> </ol>			
Normal Course:		Information for Steps	
Customer wants to create a new user account in order to browse through and rent from the available outfits.			
1) Take New Customer information	←	Customer information	
2) Allocate a user ID to each new customer which is stored in the customer datastore.	→	Customer ID	
3) Create user dashboard	→	Customer dashboard	
4) Validation link is sent to user specified email id for new account activation and email id confirmation.	←	Customer email ID	
5) Upon Customer email validation, activate new customer account and change account status to 'Active' in customer data store.	→	Customer account status	
Alternative Course(s):			
If customer enters the wrong email ID:			
4b) The system asks for email id again to send validation link after 3 minutes.	←	Customer email ID	
5b) Customer account Status will be 'inactive' till the Customer validates the email-link.	→	Customer account status	
Post conditions:			
<ol style="list-style-type: none"> <li>1) New Customer information is stored in Customer data store.</li> <li>2) Customer account status should be updated in customer data store.</li> <li>3) Customer's ID is stored in Customer data store</li> </ol>			
Summary:			
Inputs	Source	Outputs	Destination
Customer information	Customer	Customer ID	Customer data store
Customer Email id	Customer Data store	Customer Dashboard	Customer
Customer Email id	Customer	Customer account status	Customer data store

Use Case Name: Validate/Update Existing Customer Details		ID: UC-2	Priority: High
Brief Description: The use case describes how the system validates and updates an existing customer's details			
Actor: Customer			
Trigger: When a customer logs-in to the system and updates their information			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: <ol style="list-style-type: none"> <li>1. Customer's ID is available in customer data store.</li> <li>2. Customer information is available in customer data store.</li> <li>3. Customer account status is "active" in customer data store.</li> </ol>			
Normal Course:		Information for Steps	
1. Customer enters ID and password to login		←	ID and password
2. System validates the ID and password provided by the customer with the existing ID and passwords stored in the data store.		←	Customer account details
3. If Customer wants to change or update exiting details, he/she will provide the updated information.		←	Updated Customer information
4. Customer's updated payment details will also be validated by third party payment clearing house and the information will be stored in customer payment data store.		→	Payment Validation
Alternative Course(s): If customer enters the wrong ID/Password or forgets ID ID/password: 1b) The system asks for customer's email id provided during account creation and matches it with the mail ID stored in the customer data store and sends password recovery mail.		←	Customer email ID
Post conditions: <ol style="list-style-type: none"> <li>1) Customer's updated information is stored in Customer store.</li> <li>2) Customer's updated Payment information is stored in Payment data store.</li> </ol>			
Summary:			
Inputs	Source	Outputs	Destination
ID and password	Customer	Payment Validation	Payment data store
Customer account details	Customer Data store	Updated customer information	Customer data store
Updated Customer information	Customer		
Customer email ID	Customer		

Use Case Name: Create new Designer Account & Validate designer		ID: UC-3	Priority: High
Brief Description: The use case describes how a new Designer interacts with the system's web interface to create a new account and gets Validated by the system.			
Actor: Designer			
Trigger: Customer decides to search and rent outfits from Rental Restyle			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: <ol style="list-style-type: none"> <li>1) System web interface should be available and online.</li> <li>2) Designer datastore is available and online.</li> </ol>			
Normal Course: Designer wants to create a new user account in order to upload his/her design catalogs for rent.		Information for Steps	
1) Take New Designer information.		←	Designer information
2) Allocate a Designer ID to each new Designer which is stored in the Designer datastore.		→	Designer ID
3) Create Designer dashboard to allow designer to view sales, number of designs uploaded etc.		→	Designer dashboard
4) Validation link is sent to Designer specified email id for new account activation and email id confirmation.		←	Designer email ID
5) Upon Designer email validation, Designer is asked to upload certain designs in the catalog to confirm whether the designer is authentic.		←	Designer catalog
6) Activate new Designer account and change account status to 'Active' in Designer data store.		→	Designer account status
Alternative Course(s): If Designer enters the wrong email ID: 4b) The system asks for email id again to send validation link after 3 minutes. 5b) Designer account Status will be 'inactive' till the Designer's designs are validated.		←	Designer email ID
		→	Designer account status
Post conditions: <ol style="list-style-type: none"> <li>1) New Designer information is stored in Designer data store.</li> <li>2) Designer account status should be updated in Designer data store</li> <li>3) Designer's ID is stored in Designer data store</li> <li>4) Designer's Catalogs should be stored in Designer data store</li> </ol>			
Summary:			
Inputs	Source	Outputs	Destination
Designer's information Designer Catalog Designer Email id Designer Email id	Designer Designer Designer Data store Designer	Designer ID Designer Dashboard Designer account status	Designer data store Designer Designer data store

Use Case Name: Browse and add to cart		ID: UC-4	Priority: High
Brief Description: The use case describes how the user can browse through dresses by selecting different filters and add their selection to the cart			
Actor: Customer			
Trigger: Customer browses the Rental Restyle website			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: 1) System web interface should be available and online. 2) Customer Shopping cart data store should be available. 3) Customer data store should be available and online. 4) Dress data store			
Normal Course: Customer browses through catalog and adds to cart		Information for Steps	
1) Customer browses the available dresses based on 1 or more filters of their choice (size, ethnicity, latest trends).		← Customer preferences	
2) The System displays dresses according to user's selection.		→ Dress details	
3) The user will choose preferred date from a drop-down calendar which shows the availability of the dress.		← Customer Preferred dates	
4) User adds their selected dress to the cart. When user is done selecting their dresses, they add it to their shopping cart.		← Customer selected Dress ID	
Post conditions: 1) Customer shopping cart is updated with selected dress ID 2) Customer data store is updated. 3) Dress data store is updated.			
Exceptions: If no outfit matches with the filter conditions given by Customer, then system sends an Unavailability error message			
Summary:			
Inputs	Source	Outputs	Destination
Customer Preferences Customer Preferred dates Customer Selected dress ID	Customer Customer Customer	Dress Details Unavailability Error message	Customer Customer

Use Case Name: Place an order		ID: UC-5	Priority: High
Brief Description: The use case describes how a customer place an order on Rental Restyle Portal			
Actor: Customer			
Trigger: Customer adds dresses to the carts & proceed to Payment gateway			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: 1)    System web interface should be available and online. 2)    Order datastore is available and online. 3)    Payment Gateway should be up and running 4)    Customer datastore is available 5)    Shipping datastore is available			
Normal Course: Customer wants to place an order. 1)    Customer confirms the order  2)    Customer provides payment details  3)    Customer Proceed to third party Payment Gateway to complete payment and system gives payment confirmation.  4)    Designer is notified about the order details  5)    Customer is notified about order confirmation  6)    Designer validates and update the outfit condition		Information for Steps  <div>←      Order confirmation</div> <div>←      Payment details</div> <div>→      Payment confirmation</div> <div>→      Confirmed Order Details</div> <div>→      Confirmation Email</div> <div>←      Ready for pickup status update</div>	
Post conditions: 1)    Customer datastore is updated 2)    Order datastore is updated			
Exceptions: 1)    If customer does not confirm the order 2)    If dress condition is not appropriate			
Summary:			
Inputs	Source	Outputs	Destination
Order Confirmation	Customer	Order Details	Order datastore
Payment Details	Customer	Payment details	Payment datastore
Ready for pickup status update	Designer	Payment Confirmation	Order datastore
		Confirmed Order Details	Designer
		Confirmation Email	Customer

Use Case Name: Processing order for delivery		ID: UC-6	Priority: High
Brief Description: The use case describes how the dress is sent out for delivery to reach the user on the requested rental date			
Actor: Customer			
Trigger: Once the order is confirmed from designer			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: <ul style="list-style-type: none"> <li>1) System should be available and running.</li> <li>2) Order Data Store is available and online.</li> <li>3) Customer data store is available and online.</li> <li>4) Designer data store is available and online</li> </ul>			
Normal Course:		Information for Steps	
1) System extracts orders 2 days before the requested rental start date		←	Rental Period start date
2) Order details are sent to third party logistics for delivery		→	Order ID
3) Third party logistics generates and updates Tracking ID in shipment datastore		→	Tracking ID
4) The system sends the tracking id to the customer once the shipment has been picked up from the Designer location.		→	Tracking ID
5) The system notifies the designer and the customer once the delivery of the outfit is completed by the Third-party logistics company.		→	Delivery Notification
Post conditions: <ul style="list-style-type: none"> <li>1) Order status details and Tracking ID are updated in Order data store.</li> <li>2) Customer data store is updated with order details</li> <li>3) Designer data store is updated with designer data store.</li> <li>4) Shipment data store is updated</li> </ul>			
Summary:			
Inputs	Source	Outputs	Destination
Rental Period Start Date	Order Data Store	Order ID Tracking ID Tracking ID Delivery Notification Delivery Notification	Third Party Logistics Shipment datastore Customer Designer Customer

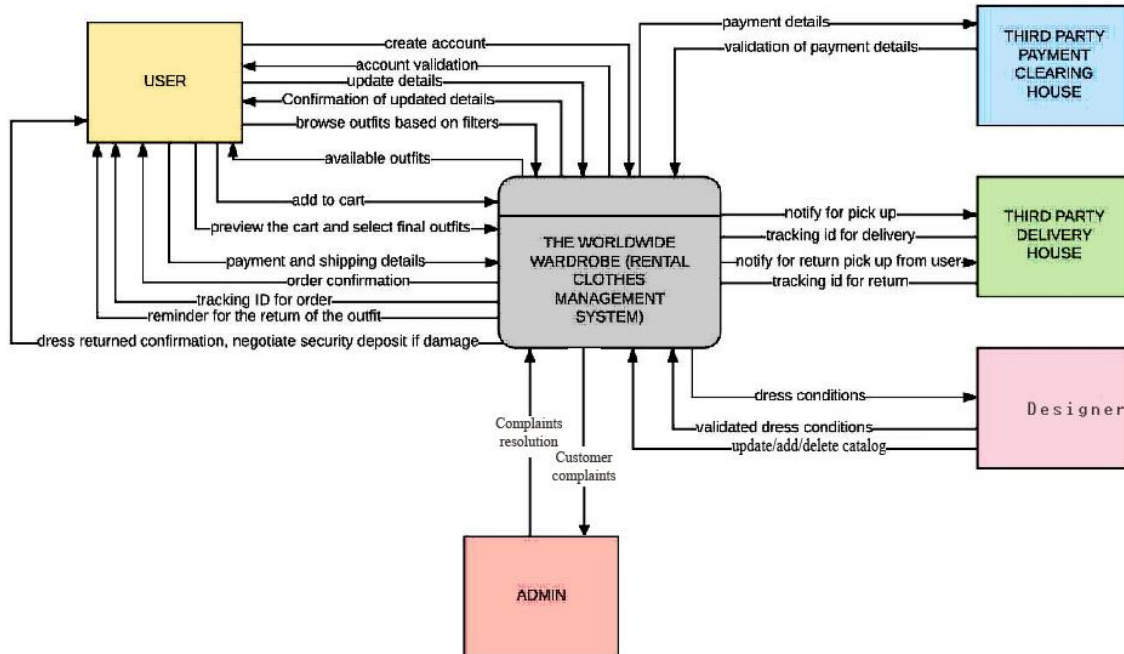
Use Case Name: Reminder 2 days prior to return date		ID: UC-7	Priority: Medium
Brief Description: This use case describes how the system sends a pickup notification to customer/designer and third-party logistics house 48 hours prior to outfit pickup time.			
Actor: System			
Trigger: 48 hours prior to outfit pick up time.			
Type <input type="checkbox"/> External <input checked="" type="checkbox"/> Temporal			
Preconditions: <ol style="list-style-type: none"> <li>1) System web interface should be available and online.</li> <li>2) Customer details should be available in customer data store.</li> <li>3) Designer details should be available and online in designer data store.</li> </ol>			
Normal Course: System sends reminder notification 2 days before the rental end date:		Information for Steps	
1) System extracts orders details from order data store 2 days before rental end date.		←	Order details
2) System sends reminder about upcoming return date to customer		→	Reminder Email
3) System sends a reminder email to Third party logistics indicating the arrival of the pickup date of the outfit from the customer.		→	Reminder Email
Alternative Course(s): If customer extends rental date 48 hours prior to rental end date:			
2a) Customer provides updated rental end date		←	New Rental end date
2b) The system sends notification to customer/designer and third-party logistics about new rental end date.		→	New Rental end date
Post conditions: <ol style="list-style-type: none"> <li>1) Order details are updated in the order data store.</li> <li>2) Return date is updated in order data store.</li> </ol>			
Summary:			
Inputs	Source	Outputs	Destination
Order details	Order data store	Reminder email	Customer
New Rental end date	Customer	Reminder email New Rental end date	Third party logistics Customer/Designer/ Third party logistics

Use Case Name: Return of outfit		ID: UC-8	Priority: High
Brief Description: This use case describes how the system process the return of the dress once the Third-party Logistics house picks the dress from Customer and returns it to the Designer			
Actor: Designer			
Trigger: Designer receives the dress back			
Type <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: 1) System web interface should be available and online. 2) Customer details should be available in customer data store. 3) Designer details should be available and online in designer data store.			
Normal Course: Designer checks and updates the status of the outfit once it is returned via third-party logistics house: 1) Designer extracts outfit details from catalog data store after receiving the outfit. 2) Designer inspects the outfit and updates the condition of the outfit. 3) Designer prepares the dress for re-rent by dry cleaning, steam press and updates about the availability once the dress is ready to be rented out again. 4) After successful return, the Customer is notified about it and the security deposit of the dress is returned to the customer. 5) Customer is prompted to give a review of their experience of the designer's dress.		Information for Steps  Dress details Dress Condition Dress ID and availability dates Security deposit Customer feedback	
Alternative Course(s): If Designer outfit is found to be damaged on return:  2b) The designer notifies Customer of the damage to the dress.  2.1) The Customer is notified about the dress damage and security deposit amount is given to the designer as compensation for the dress. 2.2) Dress details are updated in the dress data store and dress is made unavailable for further renting.		Dress damage notification Security deposit Dress details	
Post conditions: 1) Order details are updated in the order data store. 2) Customer is notified 3) Catalog Data store is updated 4) Security deposit is processed			
Summary:			
Inputs	Source	Outputs	Destination
Dress details	Catalog Data store	Dress Condition	Catalog Data store
Dress ID and availability dates	Designer	Security deposit	Customer
Customer feedback	Customer	Dress damage notification	Customer
		Security deposit	Designer
		Dress details	Catalog Data store

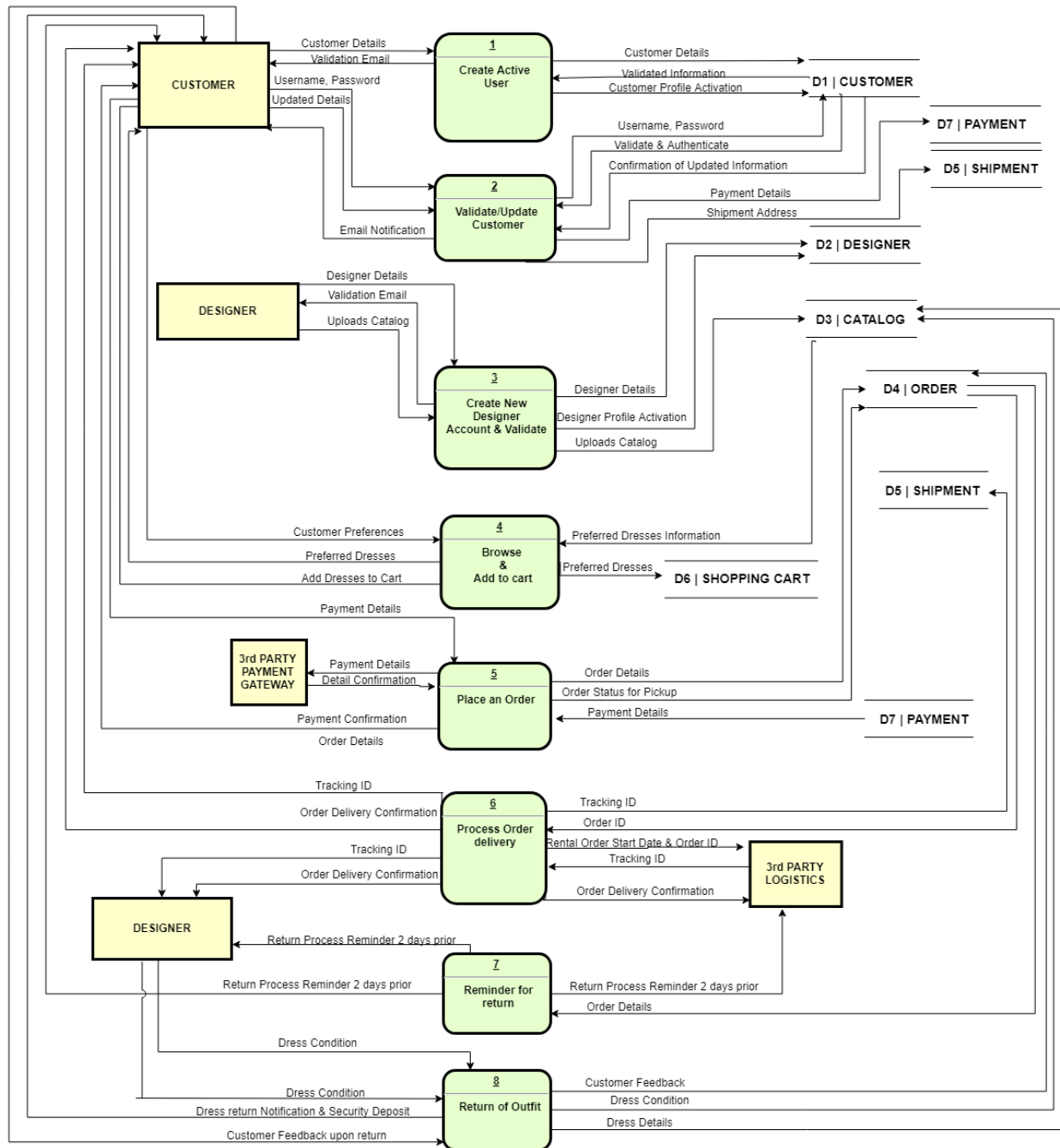


## Data Flow Diagrams

### Context Diagram

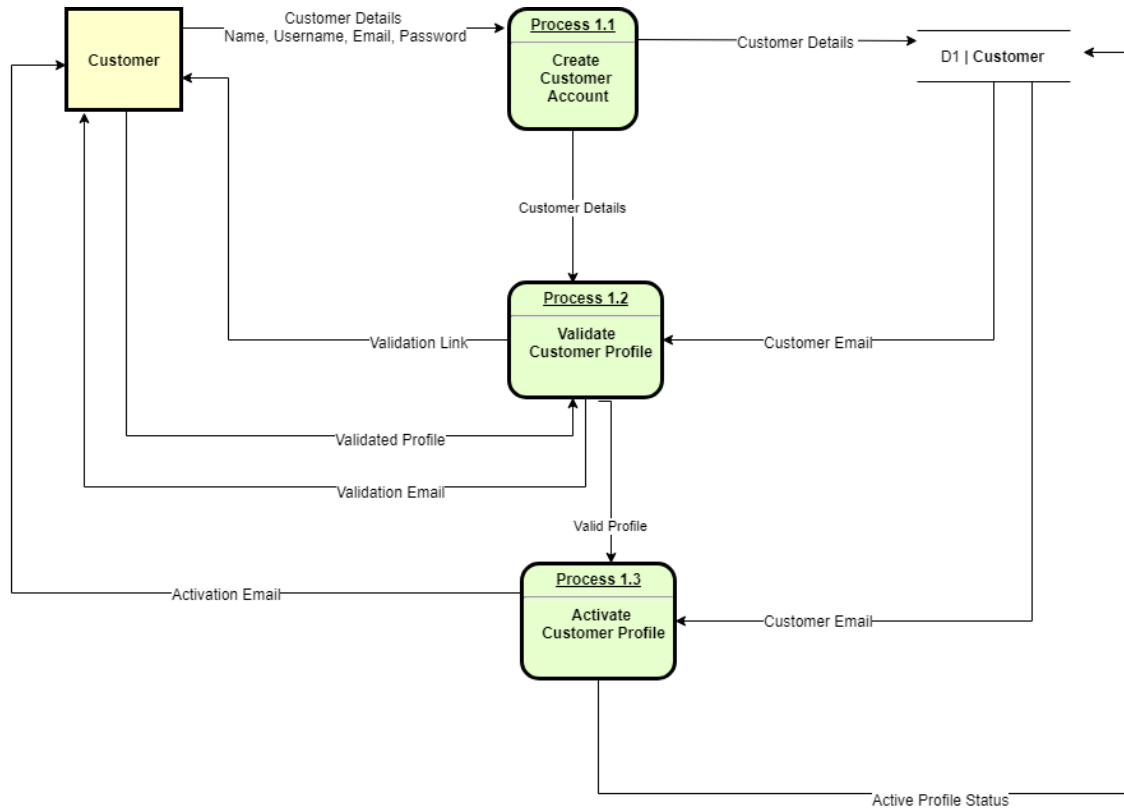


## Level 0 Diagram

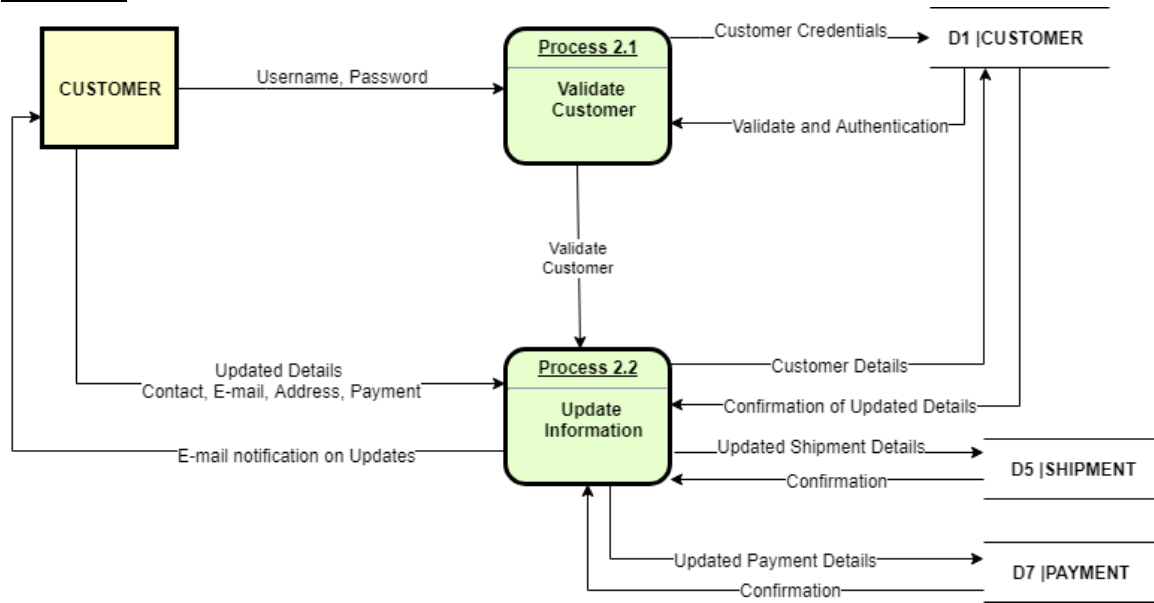


## *Level 1 Diagram*

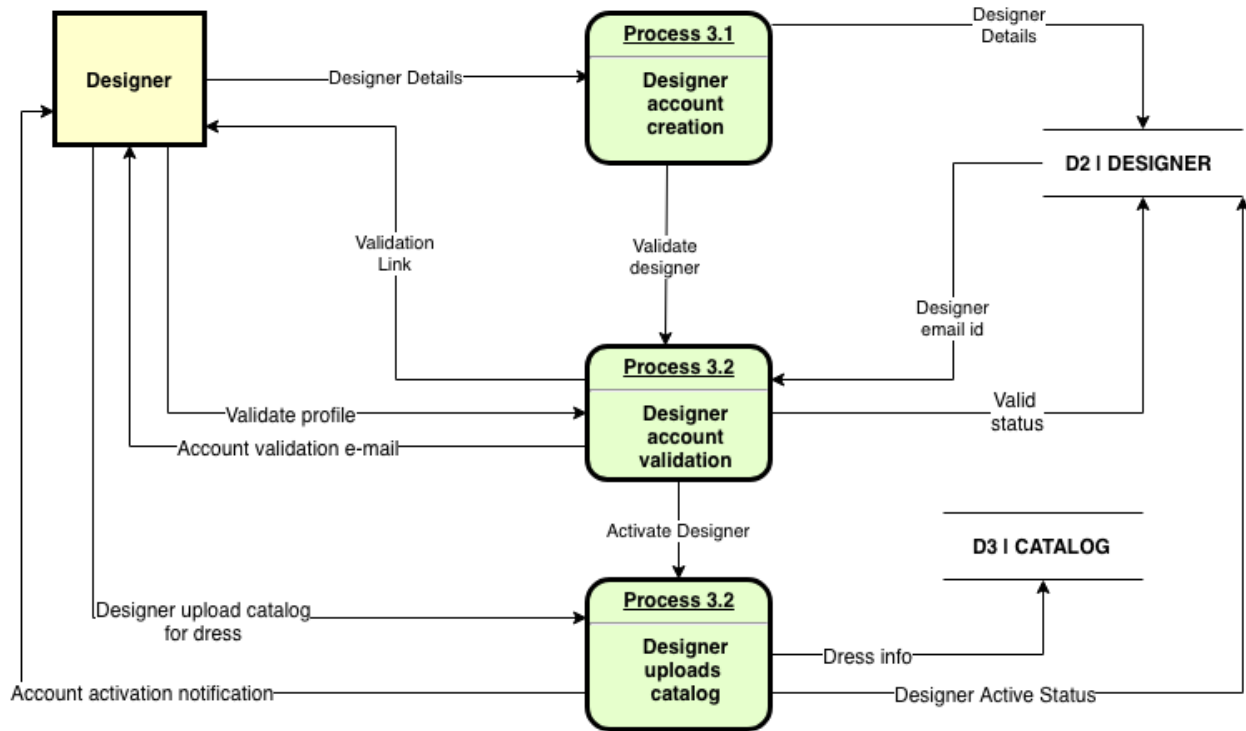
### *Process 1*



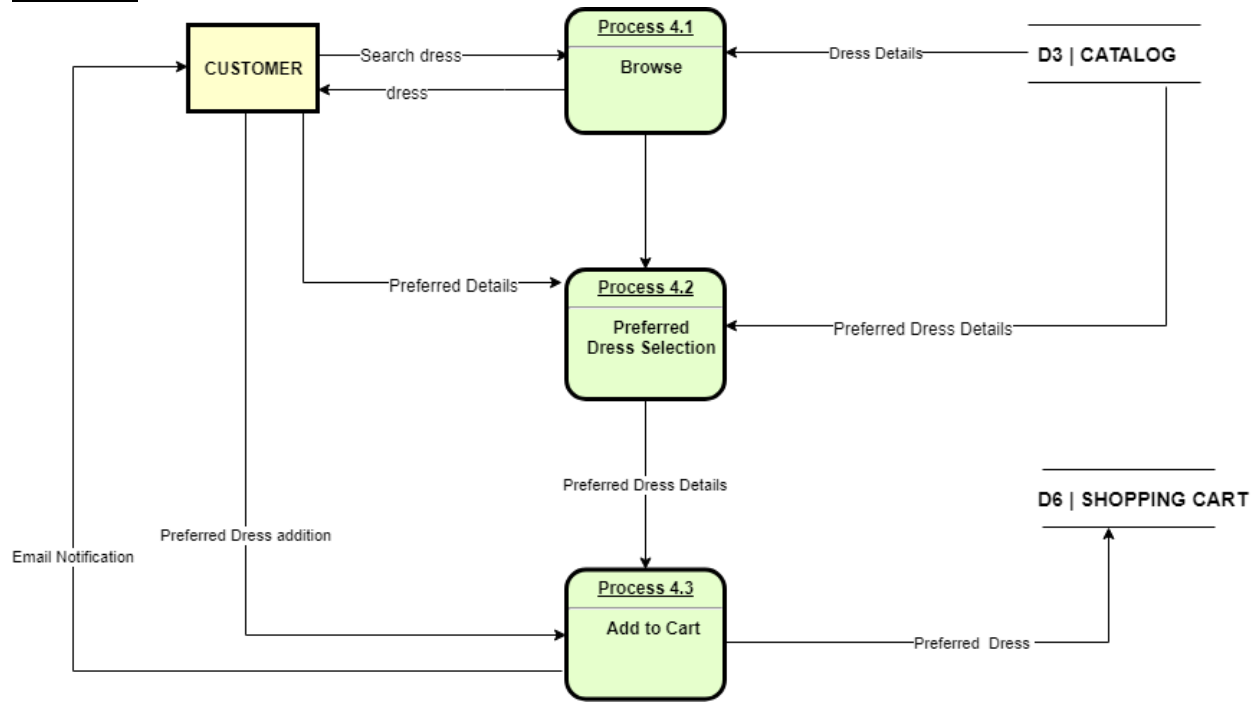
## Process 2



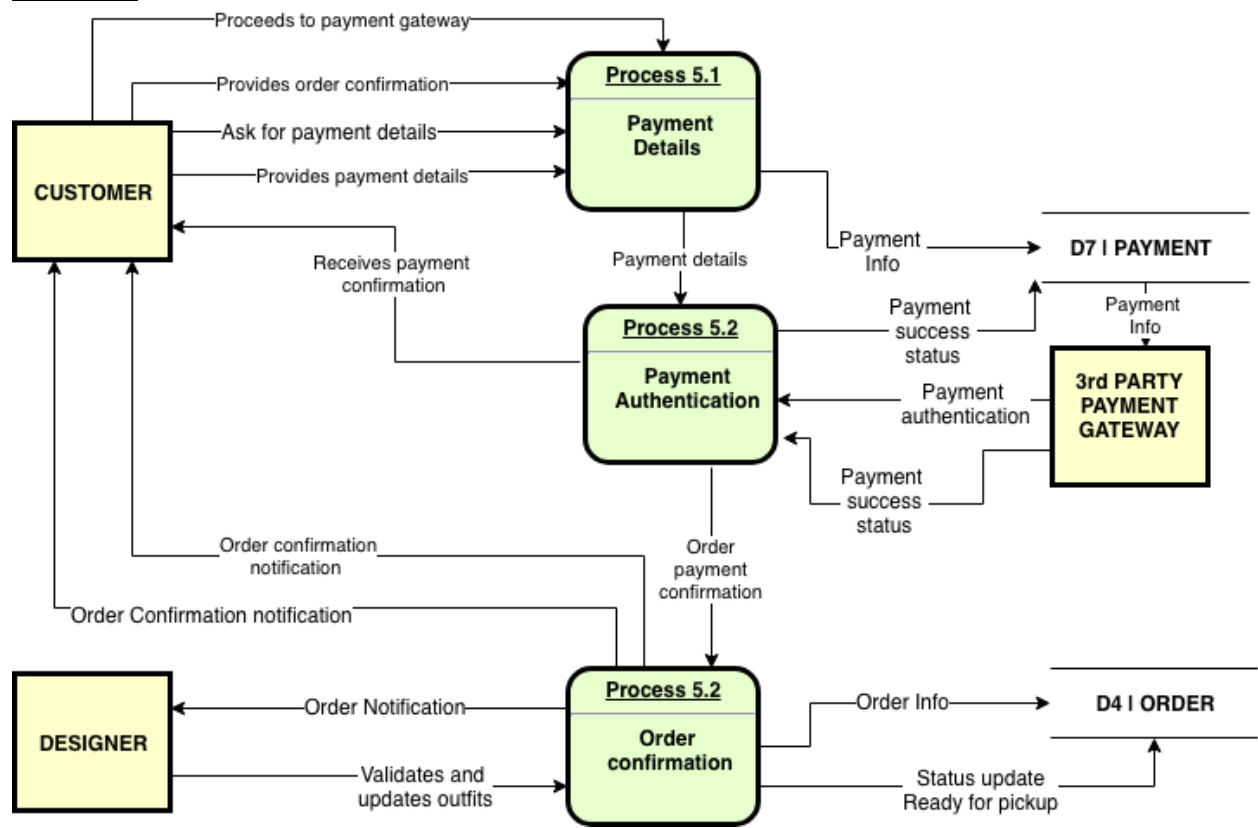
## Process 3



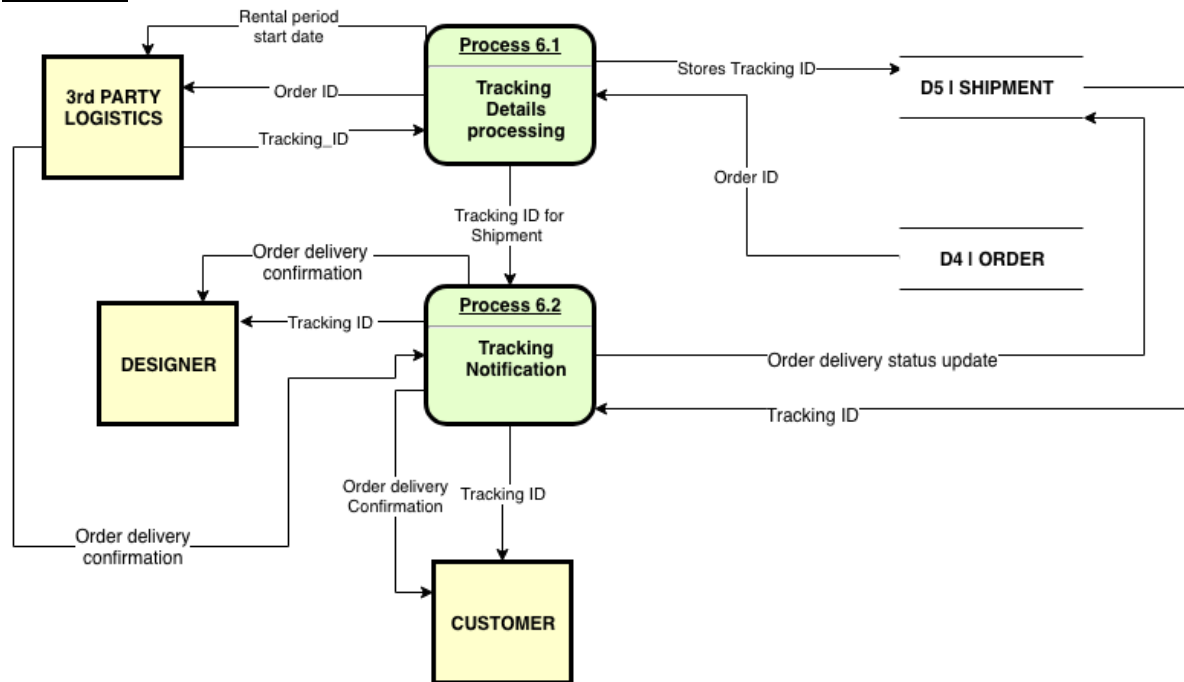
### Process 4



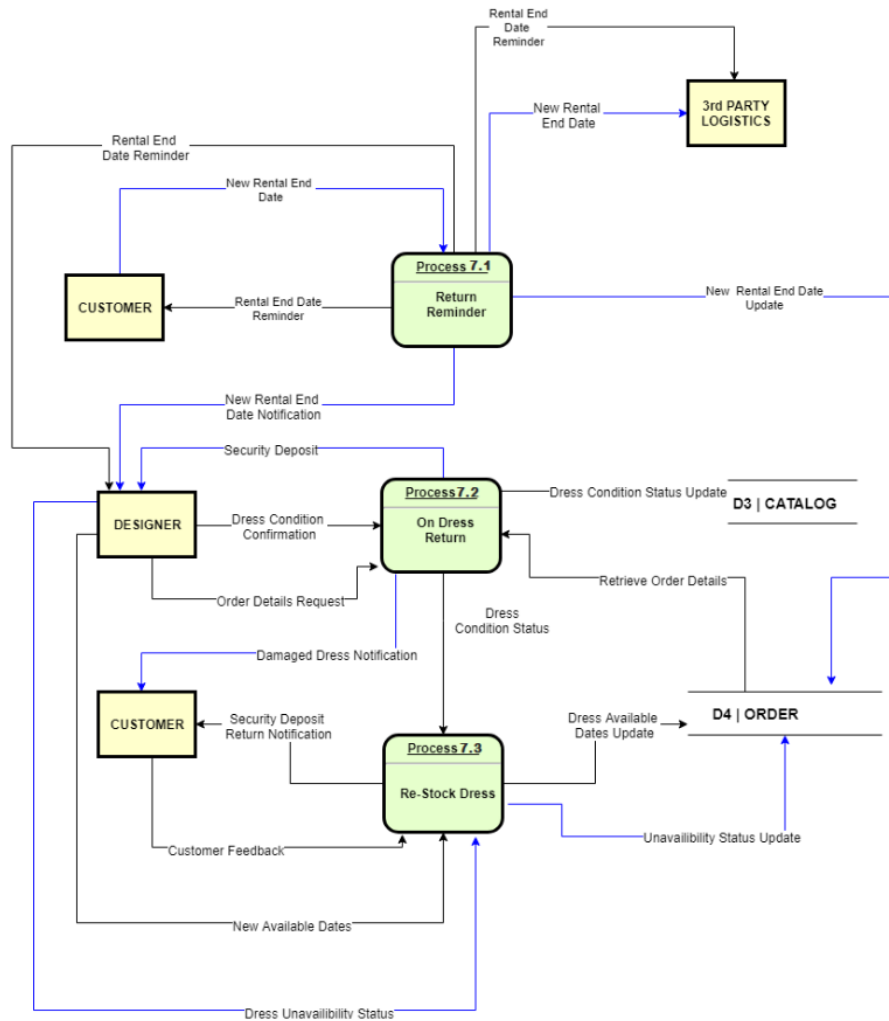
### Process 5



## Process 6

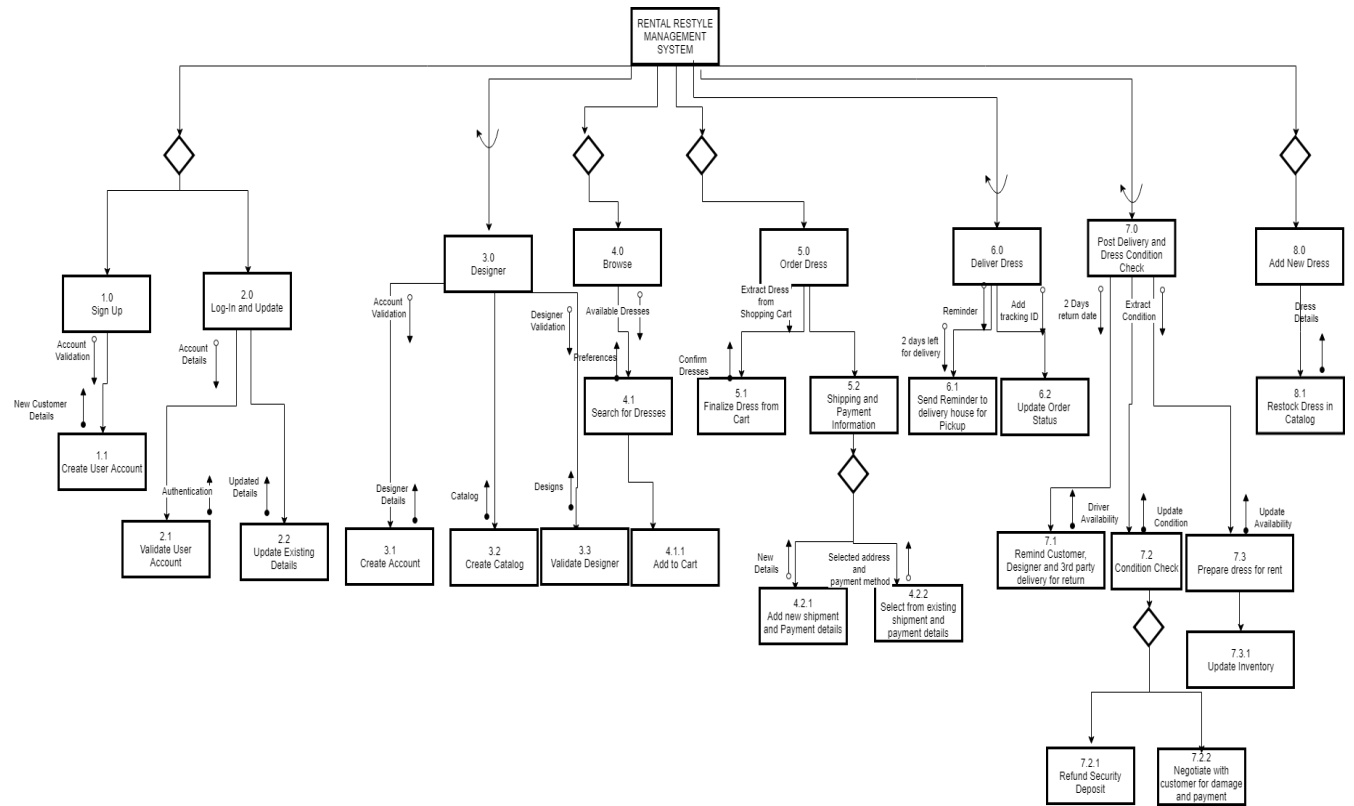


## Process 7



**Note** – Blue Line depicts Alternative Course of the Process

## Structure Chart





## Data Dictionary

### Customer

Column Name	Column Description	Data Type	Length	Value
Customer_ID	Unique identifier assigned to a Customer on creation of account	VARCHAR	10	Not Null
Customer_Name	Name of Customer who is creating account	VARCHAR	30	Not Null
Password	Password to validate Customers for future logins	VARCHAR	30	Not Null
Customer_email_id	Customer's email ID to send order details and promotional emails	VARCHAR	30	Not Null
Birthdate	Birth date of Customer to send one time special offers for birthdays	DATE		Not Null
Customer_account_status	Status of account whether activated or not	VARCHAR	10	Not Null

### Designer

Column Name	Column Description	Data Type	Length	Value
Designer_ID	Unique identifier assigned to a Designer on creation of account and after complete verification	VARCHAR	10	Not Null
Designer_Name	Name of Designer who is creating account and uploading outfit designs in their Catalog	VARCHAR	30	Not Null
Password	Password to validate Designer for future logins	VARCHAR	30	Not Null
Designer_email_id	Designer's email ID to send order details	VARCHAR	30	Not Null
Designer_account_status	Status of account whether activated or not	VARCHAR	10	Not Null

### Catalog

Column Name	Column Description	Data Type	Length	Value
Dress_ID	Unique identifier of a dress	VARCHAR	10	Not Null
Size_filter	User may choose one of the three given sizes: "Small", "Medium" and "Large"	VARCHAR	10	Null
Occasion_filter	User may choose occasion: "Diwali", "Wedding" and "Prom Night"	VARCHAR	10	Null
Ethnicity_filter	User may choose ethnicity: "Indian", "Western" and "Chinese"	VARCHAR	10	Null
Trends_filter	User may choose according to latest trends: "Fall Trend"	VARCHAR	10	Null
Rental_price	Price that user has to pay for rent	DOUBLE	10	Not Null
Dress_description	Information about dress including its designer and material etc.	VARCHAR	20	Not Null
Dress_condition	Current condition of dress	VARCHAR	10	Not Null
Dates_available	Dates dress is available for rent	DATE		Not Null

### Order

Column Name	Column Description	Data Type	Length	Value
Order_ID	Unique identifier of single order	VARCHAR	10	Not Null
Order_date	Date on which order was placed	DATE		Not Null
Requested_deliverydate	Date on which user wants dress	DATE		Not Null
Tracking_ID	Unique identifier associated with order id to keep track of order status	VARCHAR	10	Not Null
Order_status	Status of order	VARCHAR	10	Not Null

### Shopping Cart

Column Name	Column Description	Data Type	Length	Value
Cart_ID	Unique identifier of a cart	VARCHAR	10	Not Null
Customer_ID	Unique identifier assigned to a Customer on creation of account	VARCHAR	10	Not Null
Dress_ID	Unique identifier of a dress	VARCHAR	10	Not Null

## Shipment

Column Name	Column Description	Data Type	Length	Value
Shipping_ID	Unique identifier associated with each shipping address of users	VARCHAR	10	Not Null
Shipping_address	Address on which order needs to be delivered	VARCHAR	30	Not Null
City	City in which order needs to be delivered	VARCHAR	30	Not Null
State	State in which order needs to be delivered	CHAR	30	Not Null
Zip	Zip code of shipping address	INT	10	Not Null
Country	Country in which order needs to be delivered	VARCHAR	10	Not Null
Phone	Contact number of user	LONG	10	Not Null

## Payment

Column Name	Column Description	Data Type	Length	Value
Card_name	Name of the card holder	VARCHAR	20	Not Null
Card_number	Number on the card through which payment is made	LONG	10	Not Null
Expiration_date	Card's date of expiration	DATE		Not Null
Status	States if payment details are verified by third part clear house	VARCHAR	10	Null

## Data Store

### Customer

Customer_Id	Customer_name	Password	Customer_email_id	Birthdate	Customer_account_status
<b>Primary Key (auto generated)</b>					
					<b>Active Deactive Deleted</b>
<b>101</b>	<b>Prachi Sharma</b>	<b>Pass123!</b>	<b>ps4@scu.edu</b>	<b>21-Aug-93</b>	<b>Active</b>

### Designer

Designer_Id	Designer_name	Password	Designer_email_id	Birthdate	Designer_account_status
<b>Primary Key (auto generated)</b>					
					<b>Active Deactive Deleted</b>
<b>999</b>	<b>Belle &amp; Bunty</b>	<b>Pass123!</b>	<b>bnb@designer.com</b>	<b>9-Aug-59</b>	<b>Active</b>

### Catalog

Catalog_ID	Designer_id	Dress_ID	Designer_name	Dress_Size	Dress_Ethnicity	Trend	Rental_price	Dress_description	Dress_condition	Dates_available
<b>Primary Key</b>	<b>Primary Key</b>	<b>Primary key</b>								<b>Available Unavailable</b>
<b>100</b>	<b>999</b>	<b>1011</b>	<b>Belle &amp; Bunty</b>							

### Order

Customer_ID	Designer_ID	Order_ID	Dress_ID	Order_date	Requested_deliverydate	Trackin_ID	Order_status
Foreign Key	Foreign Key	Primary Key	Primary Key				
							Pending Ready for Shipment Shipped Delivered Picked up Returned

### Shopping Cart

Customer_ID	Designer_ID	Dress_ID	Cart_ID
Primary Key	Primary Key	Primary Key	Primary Key

### Shipment

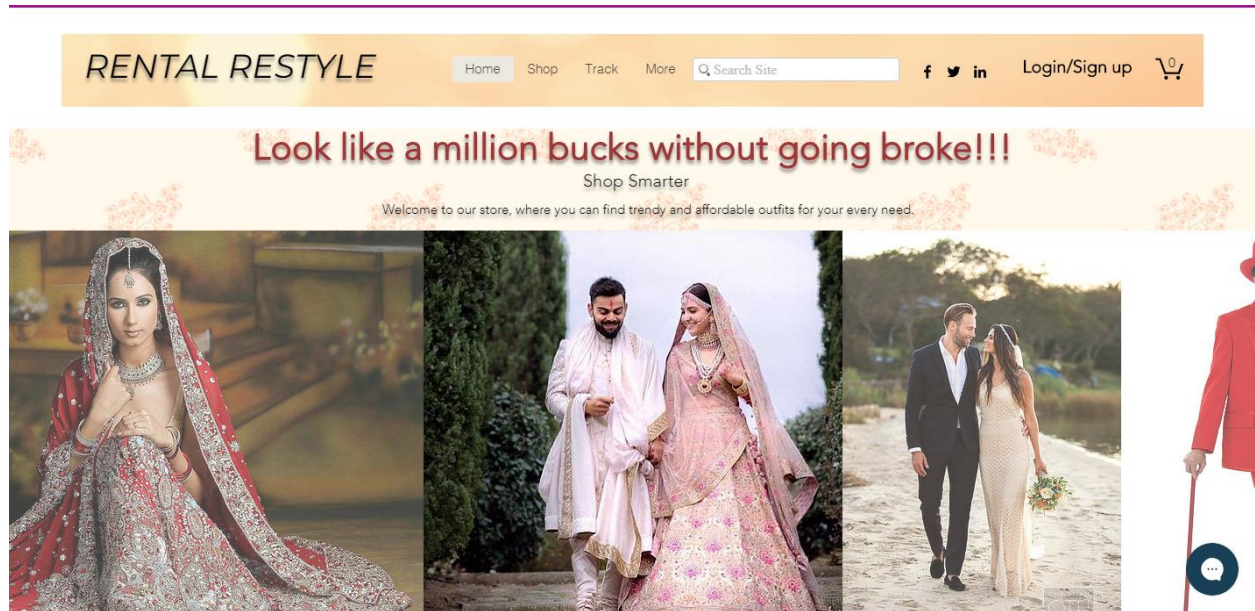
Customer_ID	Shipping_ID	Order_ID	Shipping_addresss	City	State	Zip	Country	Phone
Foreign Key	Primary Key	Primary Key	Primary Key					
				dropdown	dropdown		dropdown	
101			2147 Newhall St	Santa Clara	CA	95050	US	

### Payment

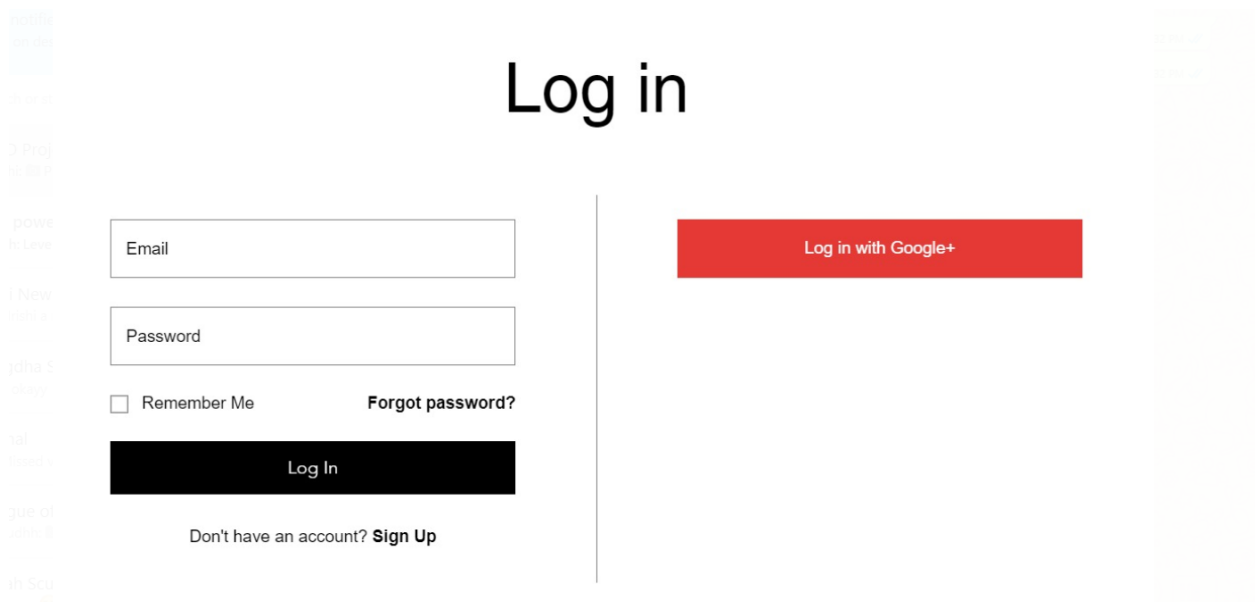
Customer_Id	Customer_name	Card_number	Expiration_Date	Status
Primary Key				
				Payment Pending Confirmed
101	Prachi Sharma	6011 0088 7452 4203	6-Dec-19	Confirmed

## User Interface

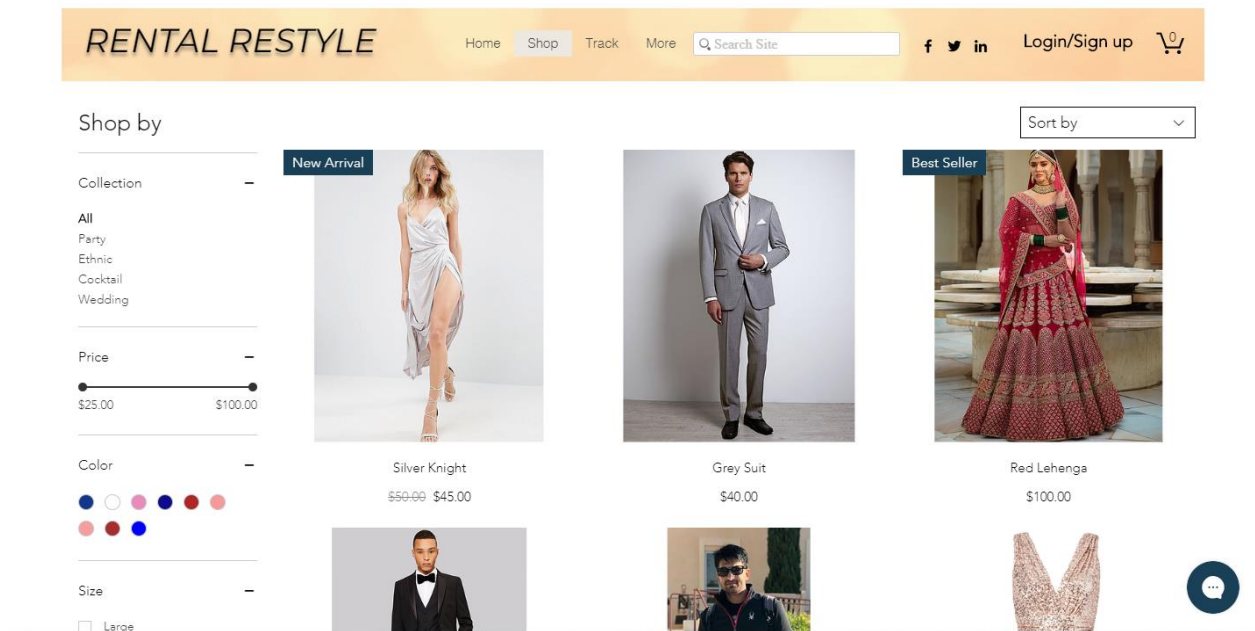
## Home Page



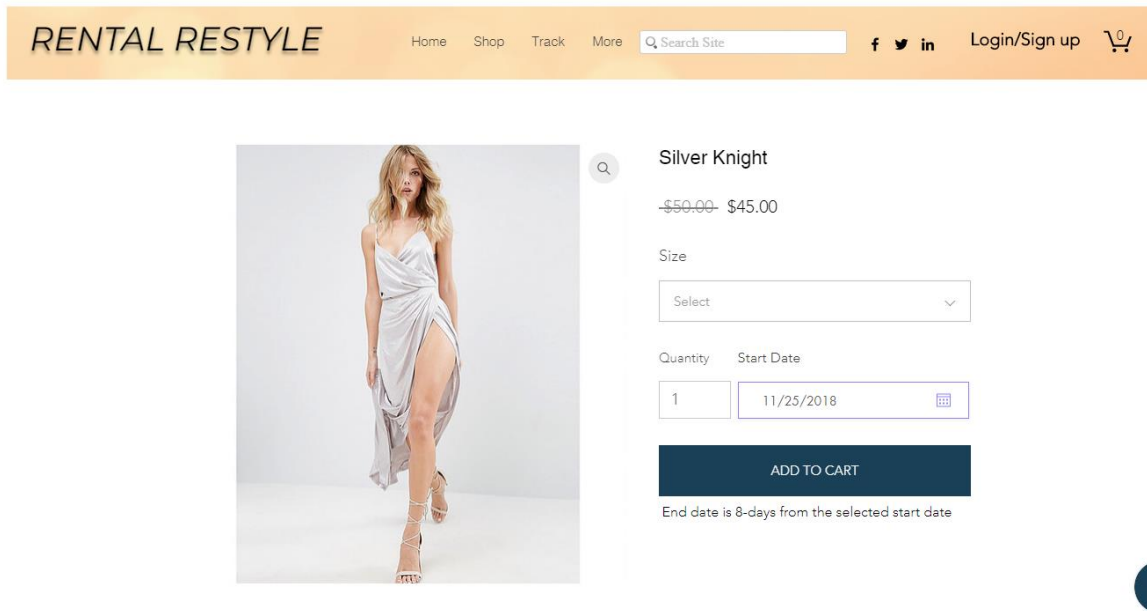
## Login Page



## Store Page




## Product Page



## Shopping Cart

**RENTAL RESTYLE**[Home](#)[Shop](#)[Track](#)[More](#)[f](#)[t](#)[in](#)Hello yogisa...[Log out](#)

My Cart (1)		Price	Qty	Total
	Silver Knight Size: Medium <a href="#">Remove</a>	<del>\$50.00</del> \$45.00	<input type="text" value="1"/>	\$45.00
<input type="text" value="Enter a promo code"/>		Subtotal		\$45.00
<input type="text" value="Add a note"/>		Shipping		FREE
		California, United States		
		Total		\$45.00
<a href="#">Checkout</a>				

## Checkout

RENTALRESTYLE CHECKOUT[Continue Shopping](#)

### 1 Shipping Details

\*Email for order confirmation

\*First Name


\*Last Name

\*Address

\*City


#### Order Summary (1)

[Edit Cart](#)

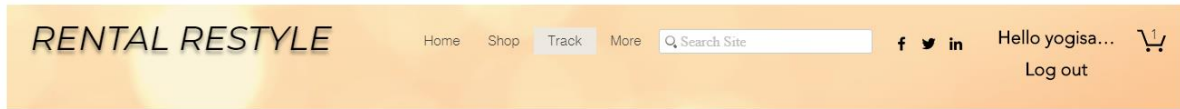


Silver Knight  
Qty: 1  
[+More Details](#)

Subtotal	\$45.00
Shipping	Free
Sales Tax	\$0.00
<b>Total</b>	<b>\$45.00</b>

 **SSL SECURE SHOPPING**  
Your data is safe and secure.

## Tracking with Order Id



### TRACK ORDER

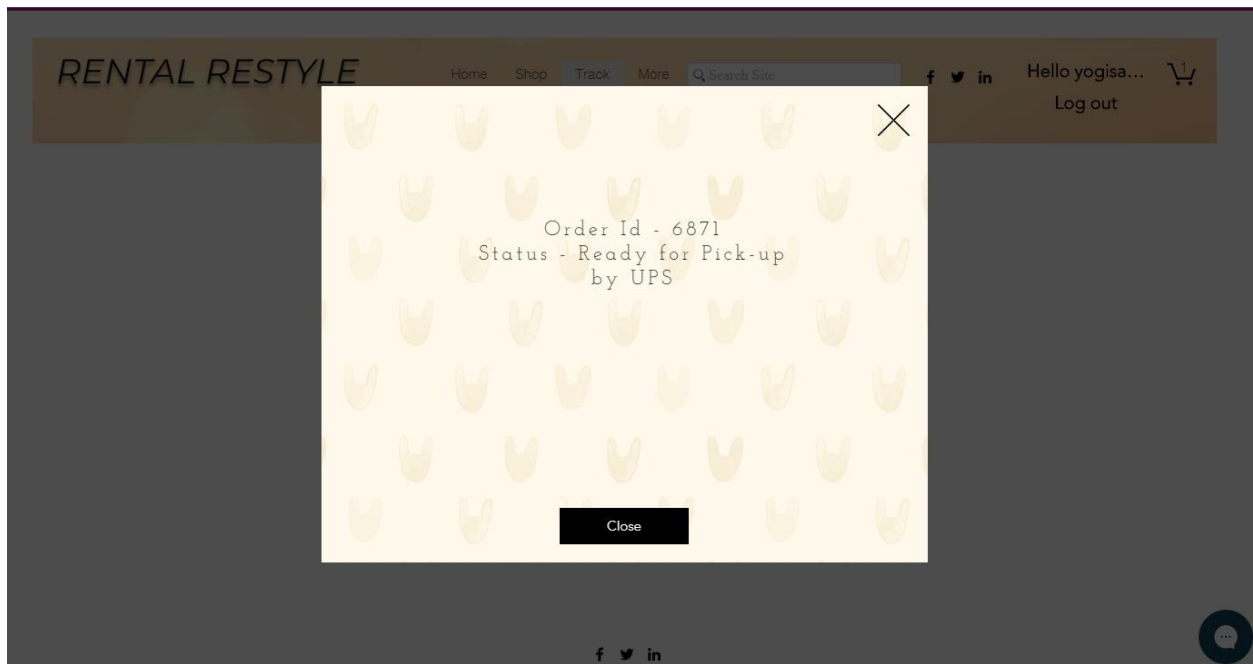
Enter Order Id



f t in



## Order Status



# Designer Dashboard

Dashboard

< Main Menu

STORE PRODUCTS

Products

Collections

Upgrade





Products 16

Select all

CollectionAll Products

Filter by:All

Search...

	NAME	TYPE	SKU	PRICE	INVENTORY	
<input type="checkbox"/>	 Silver Knight	Physical		\$45.00 \$59.99	In stock	...
<input type="checkbox"/>	 Grey Suit	Physical		\$40.00	In stock	...
<input type="checkbox"/>	 Red Lehenga	Physical		\$100.00	In stock	...
<input type="checkbox"/>	 Black Tux	Physical		\$40.00	In stock	...



## **Future Scope**

The future scope for our project covers the following:

- Expand our business outside Bay area
- Provide Customization of rented dress
- Develop Mobile Application for IOS & Android device
- Provide designer matching accessories with the rented dress

## **Conclusion**

Rental Restyle is a reliable platform that provides customers with an easy and quick way to rent designer outfits at pocket-friendly prices with door-step delivery. Moreover, Rental Restyle provides a platform to designers where they can show case their outfits for rent and gain publicity which in turn will increase their customer base. Rental Restyle is an efficient platform in terms of handling interactions between 3<sup>rd</sup> party logistics, designers and customer.

Our experience with this project has been a great learning opportunity for our team. This project helped us in understanding and developing analytical skills and system designing capability. We also learnt how to gather requirements and convert them into clear diagrammatic representations along with the importance of dividing tasks and team work.