

ONLYFAN SHOP

Software Requirement Specification

– Danang, November 2021 –

Table of Contents

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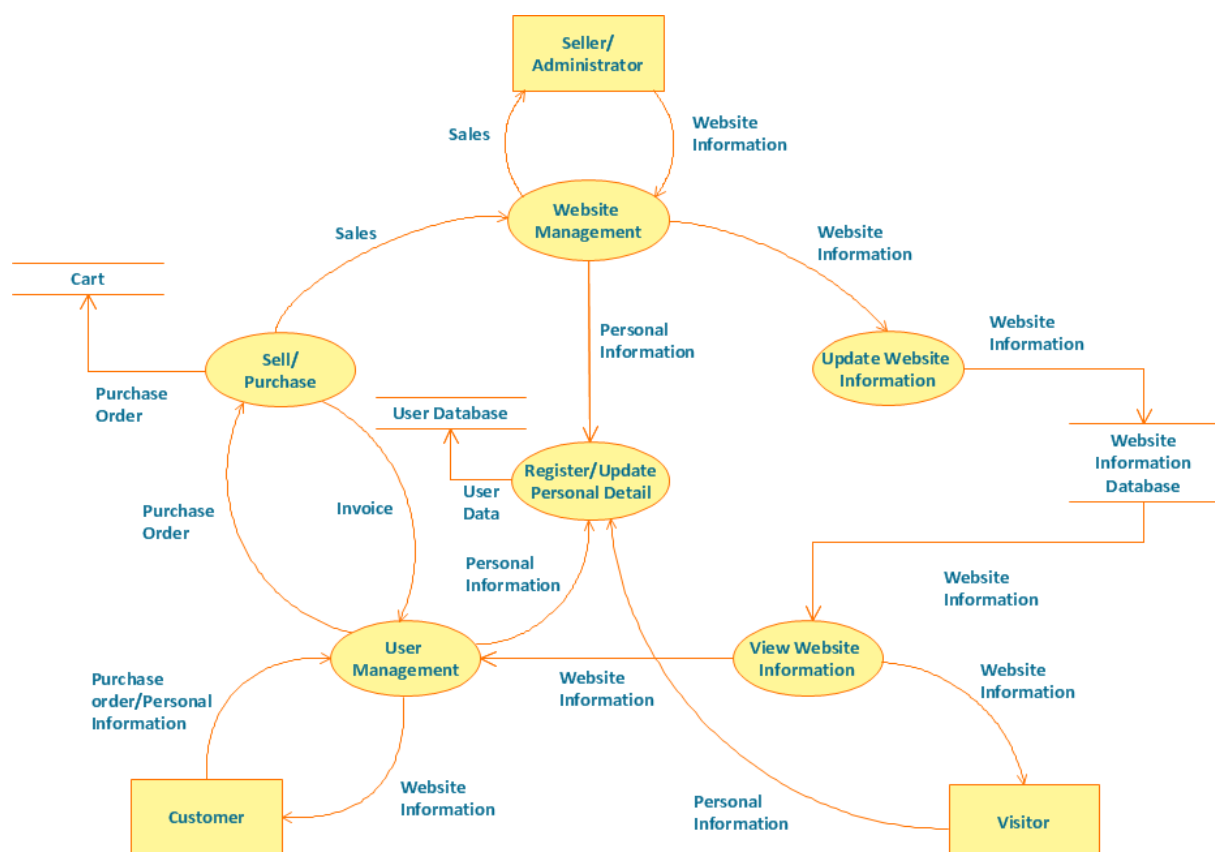
I. Overview	3
1. Introduction	3
2. System Functions	4
3. Common Requirements	6
II. Functional Requirements	6
A. Shopping online	7
1. Description	7
2. Functional Requirements	7
B. Product details.....	7
1. Description.....	7
2. Functional Requirements	8
C. Shopping database system	8
1. Description.....	8
2. Functional Requirements	8
D. Administrator interface	8
1. Description.....	8
2. Functional Requirements	8

I. Overview

1. Introduction

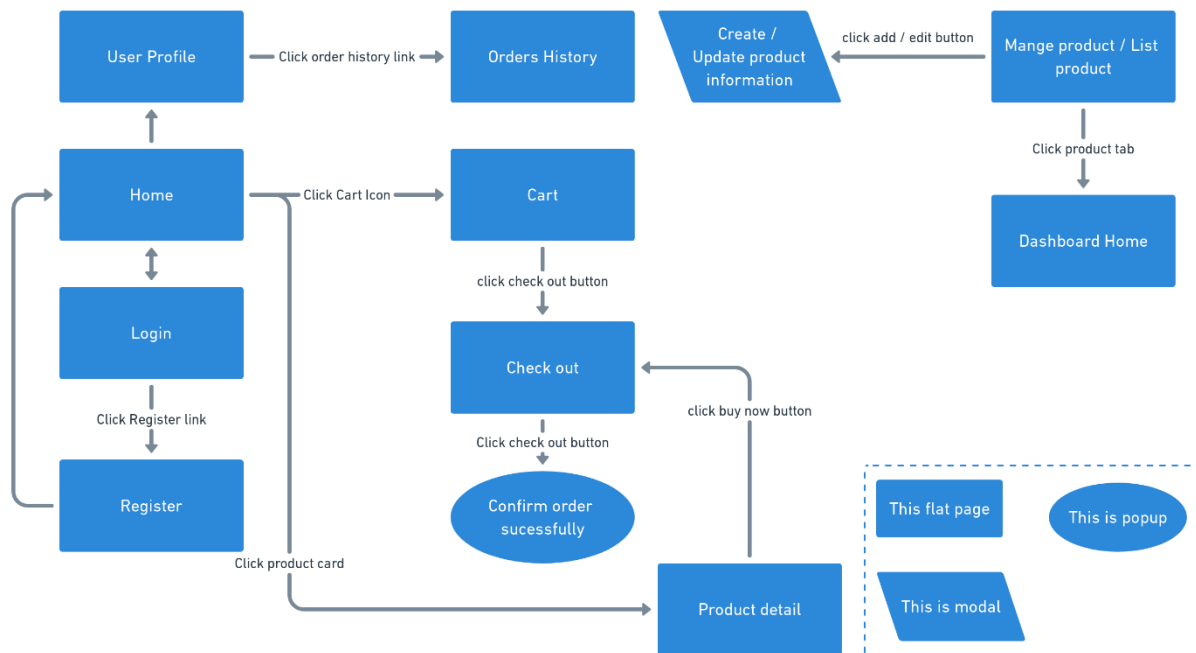
This project is aimed at developing an online shop system that supports online shopping & product online selling for the shop.

This online shopping website lets shop owners sell their product online through the internet. The system expects to make shop product sales grow up more by providing an online method for shopping. The Customer can view and make purchases easily with the internet. In addition, the system also manages sales and reports for the shop owner



2. System Functions

a. Screen Flow



b. Screen Details

#	Feature	Screen	Description
1	View product	Home	List of products, each product is a card. Can filter sort product in this screen
2	View product	Product detail	Detail information and comment about product
3	Authentication	Login	User input username and password for login or click register link.
4	Authentication	Register	User input information to create User account
5	Shopping cart	Cart	View all products that added by user are having in cart
6	Shopping history	Order history	View all order that ordered by current user
7	User profile	User profile	View and update information for current user
8	Check out	Check out	Display invoice and shipping information
9	Manage Product	Create / Update product	Screen for administrator create or update information product
10	Report sale	Dashboard home	Display about sales of each month though chart, revenue and cost of shop

c. User Authorization

Screen	Visitor	Customer	Admin
Home	X	X	X
View products	X	X	X
Sort by filter	X	X	X
Pagination	X	X	X
Register	X		
Sign up	X		
Login		X	X
Sign in		X	X
Product Details	X	X	X
Add to cart	X	X	X
View details	X	X	X
Buy now		X	X
Comment		X	X
Rate		X	X
Adjust quantity	X	X	X
Cart	X	X	X
Adjust quantity	X	X	X
Remove product	X	X	X
Add to cart	X	X	X
Order details	X	X	X
Pay orders	X	X	X
Personal Profile		X	X
View cart history		X	X
Upload avatar		X	X
Dashboard			X
Static revenue of the month			X
Static total monthly sale			X
Display domain chart			X

d. Non-Screen Functions

[Provide the descriptions for the non-screen system functions, i.e batch/cron job, service, API, etc.]

#	Feature	System Function	Description
1	Security Requirements	Authorization	Giving permission for users who signed up for websites, users must be logged in in order to buy products, rate products or comment
2	Performance Requirements	Response	The server shall respond to the client within 2 seconds each time requesting
3	Availability Requirements	Online	Make sure the website is available and working properly at 24/7
4	Localization Requirements	Languages	Using GraphQL with Java and Javascript for building function of website

5	Usability Requirements	Error Tolerance	Check and notify users about syntax errors every time submitting their type when searching product online to make sure the input fields are correct
6	Robustness Requirements	Recover Data	Enable the user to recover an incomplete order and continue working on it when the connection is broken
7	Integrity Requirement	Authentication	Use JWT token to authenticate different users account
8	External Interface Requirements	Data Format	All data must be in JSON format during transaction
9	User Interface Requirements	Sort Products	The grid data of products displays on the system must have filters and sort functions
10	Scalability Requirements	Load Data	Use data mapping to optimize the amount of query to the database

3. Common Requirements

#	Requirement	Description
1	Validation Data	Make sure the data is valid whenever the administrator inputs new products data. If data is invalid, the system must request the administrator to input again.
2	Capacity	Extend web caching methods to ensure that the website will not be overloaded if there are too many requests from clients in a period.
3	Extensibility	The website shall be compatible on popular browsers like google chrome, microsoft edge, firefox, etc.
4	Maintainability	The system shall easily detect errors so that administrators can easily correct them. Fixing and upgrading the system shall not be more than 30 minutes.

II. Functional Requirements

A. Shopping online

1. Description

Customers can buy products through an online website. They must enter their personal details and credit card for payment.

2. Functional Requirements

Shopping.Search: Searching products

- .Access: The system shall allow customers to access for searching regardless of sign up. If customers have signed up, they can purchase products.
- .Seek: The customers can list the products by multiple filters. For example: users can filter the product order by rating, from lowest to highest and vice versa.
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Shopping.Rate: Display price

- .Range: The system shall provide the price range of all the products to customers. The customers can choose to display ascending or descending.
-

Shopping.Review: Viewing Products

- .Details: The system shall enable customers to check and review all the details of the products.
- .Available: The systems shall permit customers to check the availability of products. If the product is out of stock, they can not add to cart.
-

Shopping.Cart: Manage order

- .Details: The system shall display to customers all the amount of products and calculate the total bill for payment.
- .Manipulate: The system shall allow the customers to change the quantity of products or remove the product from the order.
-

Shopping.Purchase: Pay products

- .Select: The system shall have the next button or cancel button for the purchasing procedure.
- .Decision: The system shall enable customers to visit the payment page to enter credit card details for purchasing.
- .Confirm: The customers will be redirected to the invoice page if they click the confirmation button.
-

Shopping.Bill: Confirm Order

- .Price: The system shall calculate the total bill amount and display to the customers.
-

B. Product details

1. Description

When viewing product detail, customers can comment and rate the product.

2. Functional Requirements

Product.Comment: Make a comment

.Post: The system shall allow customers to type the comment from the keyboard and does not accept complex data.

Product.Rating: Rate a product

.Evaluate: The customers can rate a product from 1.0 star to 5.0 star.

C. Shopping database system

1. Description

The system shall automatically record all information of users and products when the customers sign up and admin add products into the database.

2. Functional Requirements

Database.Storage: Save information fields

.Record: The system shall record all the following information of entities: Category, Order, OrderDetail, Product, ProductComment, ProductImage, RateProduct, Role, User.

D. Administrator interface

1. Description

The management team members have permission to access the system to check and review product details. They can view or edit products and create a dashboard to review the business situation.

2. Functional Requirements

Admin.Login: Login function

.Authenticate: The system should allow admin users to access the system only with username and password.

.Authorize: The system should accept any command from admin users.

Admin.Manipulate: Modify all data

.Control: The system should allow admin users to add, edit or delete any products.

.View: The system should provide all the details fields of entities to admin and create a dashboard for reviewing revenue.
