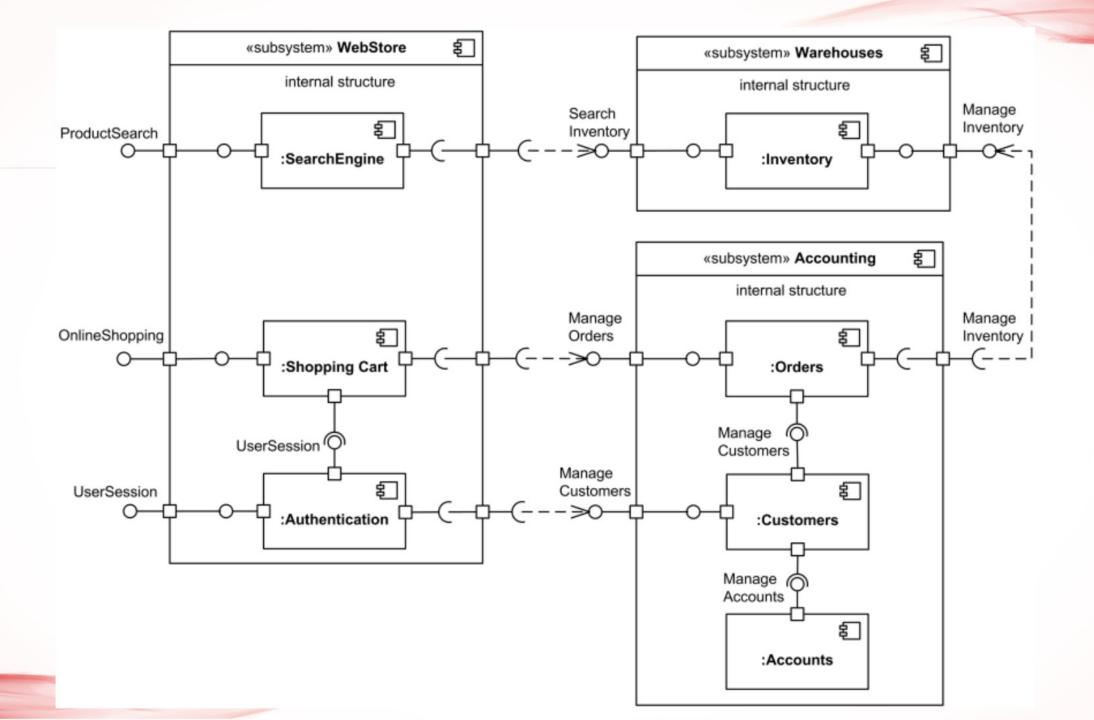
E-COMMERCE ONLINE SHOPPING DESIGN MODEL

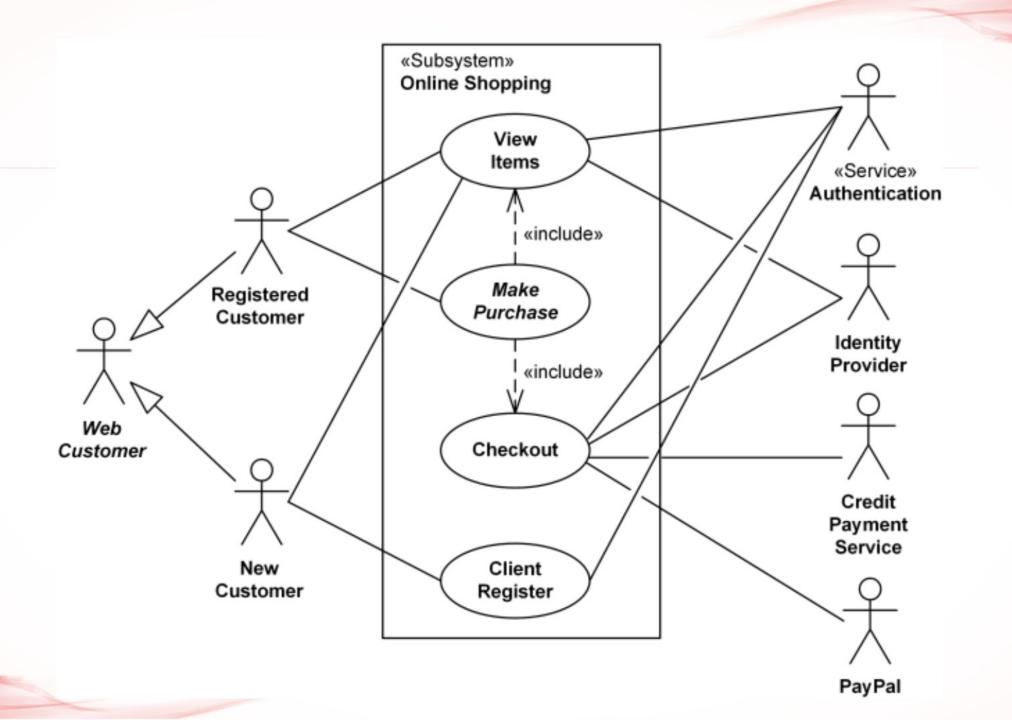
UML DIAGRAMS

SVITLANA MARYAM

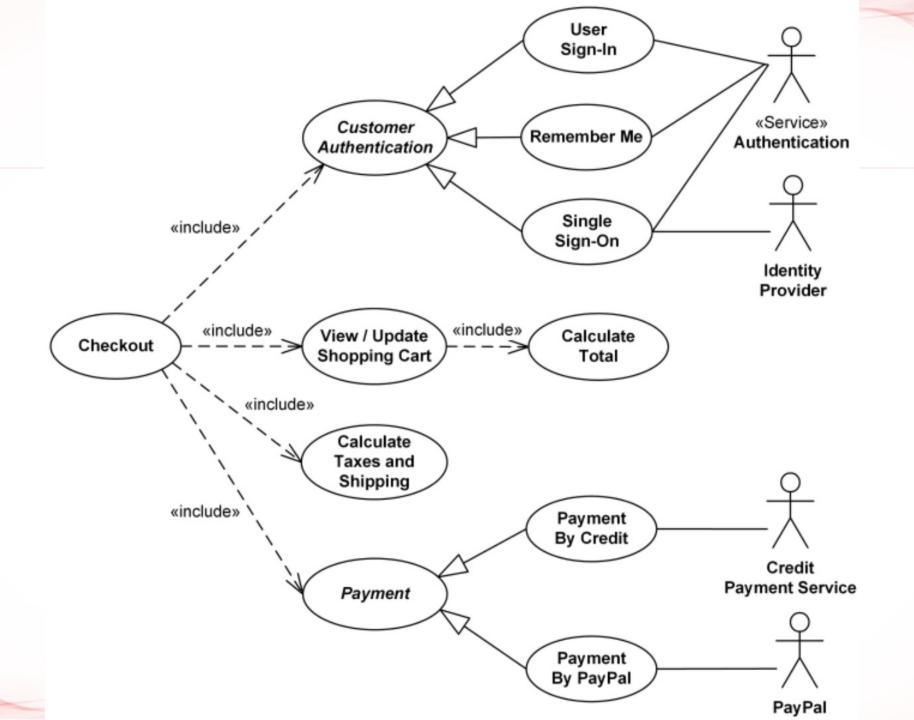
COMPONENT DIAGRAM



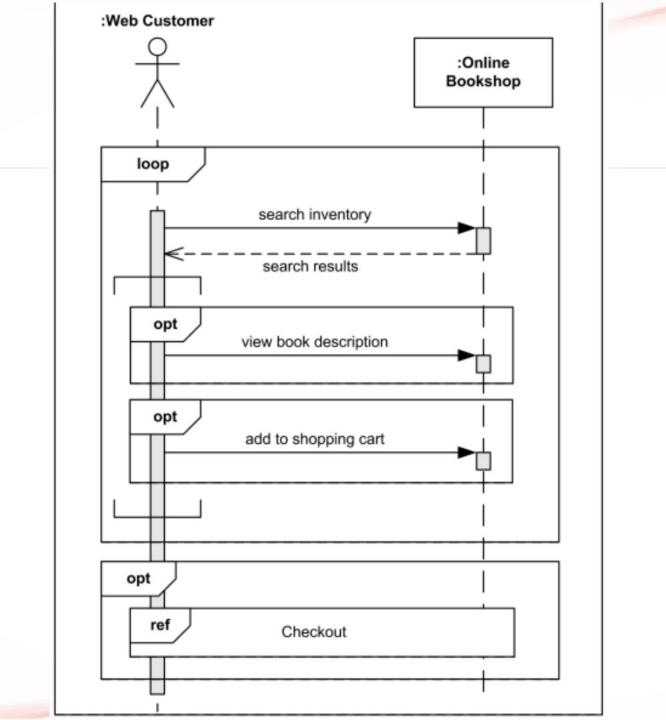
USE CASE DIAGRAM



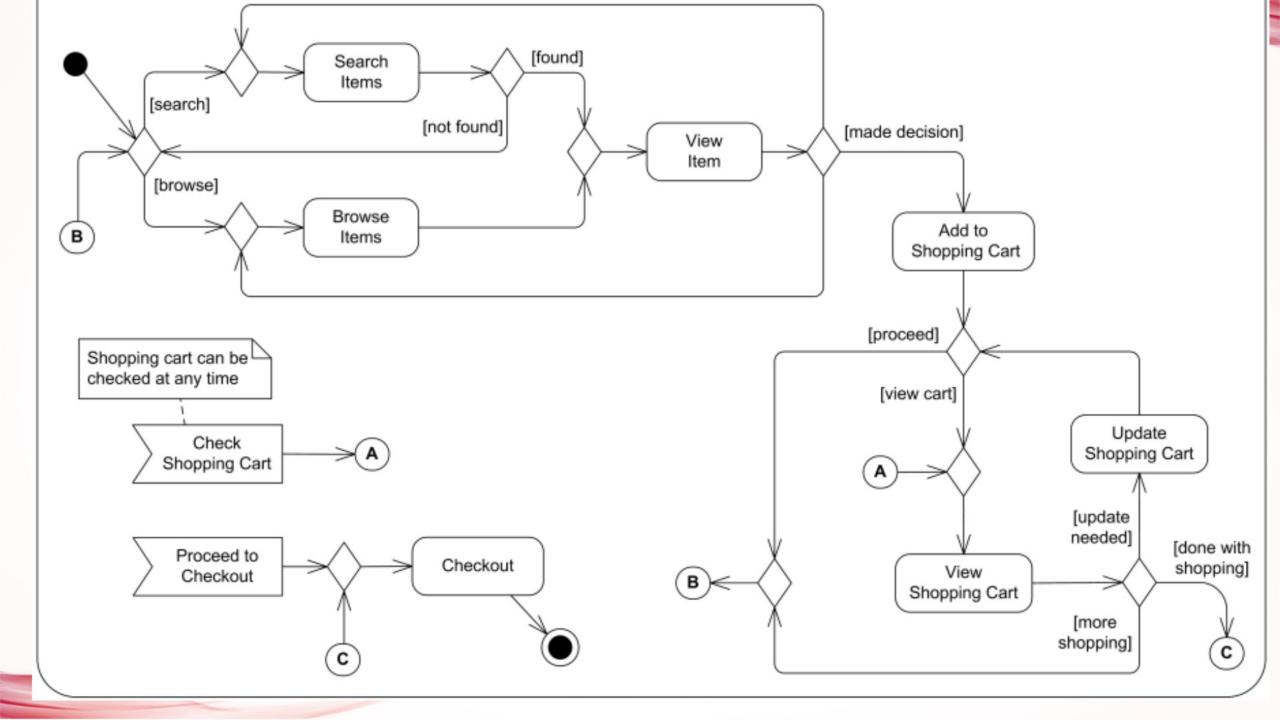




SEQUENCE DIAGRAM



ACTIVITY DIAGRAM



DATA MODEL

Customer

idintfirst_namevarcharmiddle_namevarcharlast_namevarcharemail_addressvarcharcreated_atdatetime

PasswordHistory id int customer_id int password_hash varchar retired_at datetime

first_name varchar middle_name varchar last_name varchar email_address varchar created_at datetime

id int customer_id int password_hash varchar locked_out bool LoginAttemptHistory

int

int

bool

datetime

id

customer_id

login_successful

attempted_at

Product	
id	int
name	varchar
sku	varchar
description	varchar
price	float
category_id	int

id int name varchar code int description varchar parent_code int

RelatedProduct

id	int
product_id	int
related_product_id	int
relevance_score	int

ProductVendor	
id	int
company_code	varchar
name	varchar
description	varchar
address_street_no	varchar
address_street_alt	varchar
address_city	varchar
address_state	varchar
address_postal_code	varchar

varchar

address_country_code

Product

id	int
name	varchar
sku	varchar
description	varchar
price	float
vendor_id	int
category_id	int

PricingHistory

id	int
product_id	int
price	float
started_at	datetime
ended_at	datetime

ProductCategory

id	int	
name	varchar	
code	int	
description	varchar	
parent_code	int	

OrderStatusCode

status_code

id int

varchar

description varchar

id int

customer_id int

status_code_id int

customer_comments varchar

id int
order_id int
product_id int
quantity int
price float

ShoppingCartItem

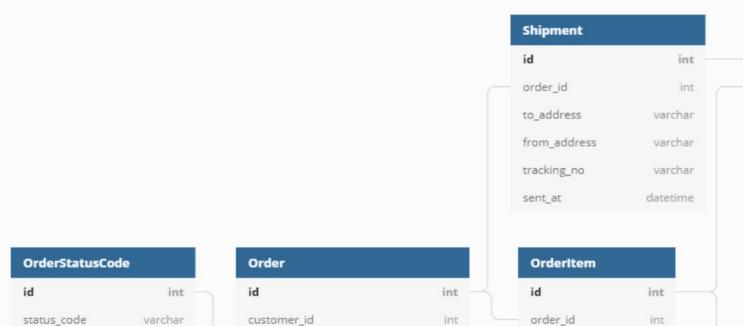
id int

customer_id varchar

product_id int

quantity int

price float



int

varchar

OrderItemReturn	
id	int
order_item_id	int
return_id	int
issued_by	varchar
issued_at	datetime

ShipmentItem

int

int

shippment_id

order_item_id

ShoppingCartItem	
id	int
customer_id	varchar
product_id	int
quantity	int
price	float
price_expires_at	datetime

description

varchar

ShoppingCartHistory	
id	int
customer_id	varchar
product_id	int
occured_at	datetime
action_id	int

status_code_id

customer_comments

id	int
action_constant	varcha
description	varcha

product_id

quantity

price

int

int

float



