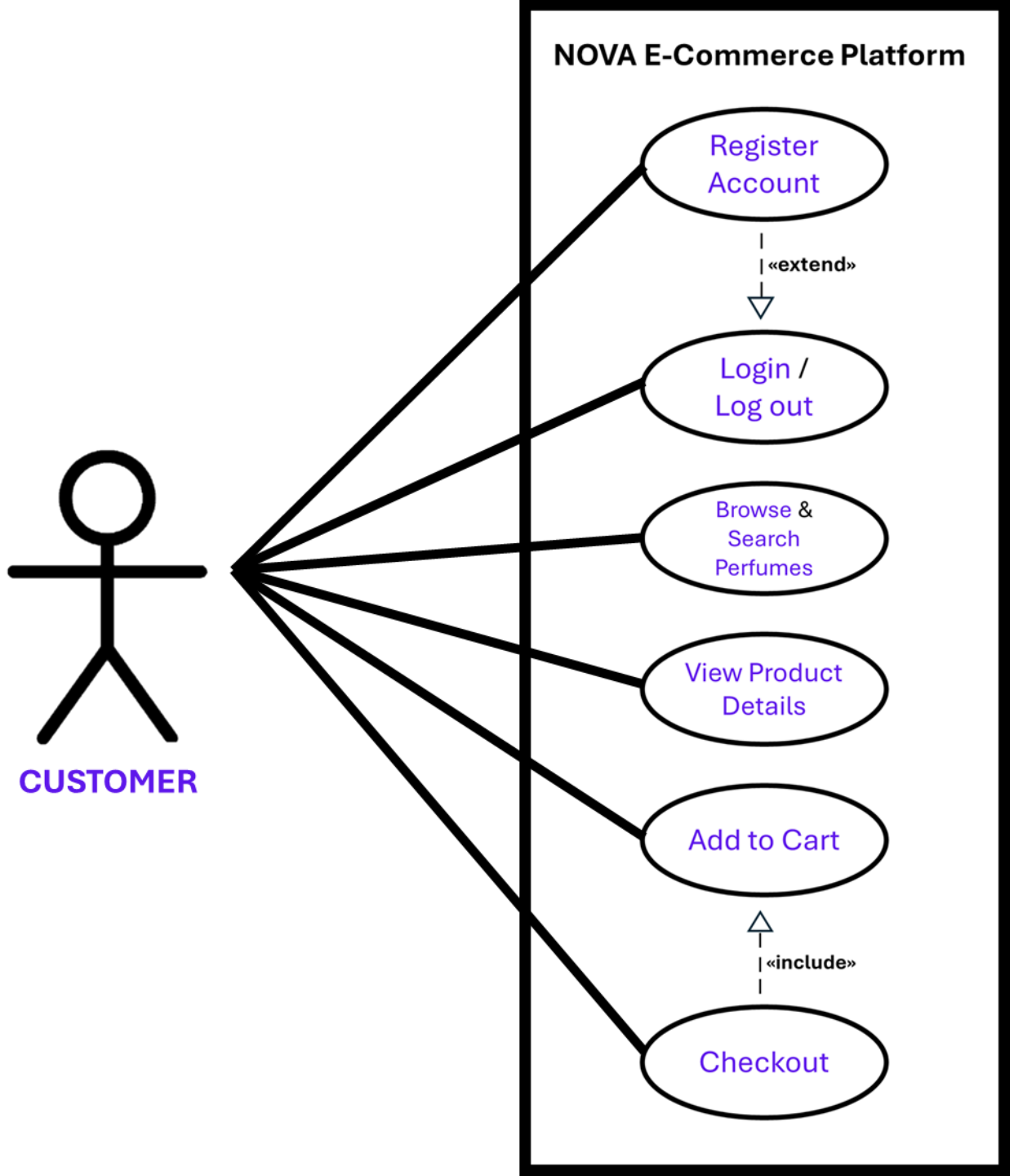
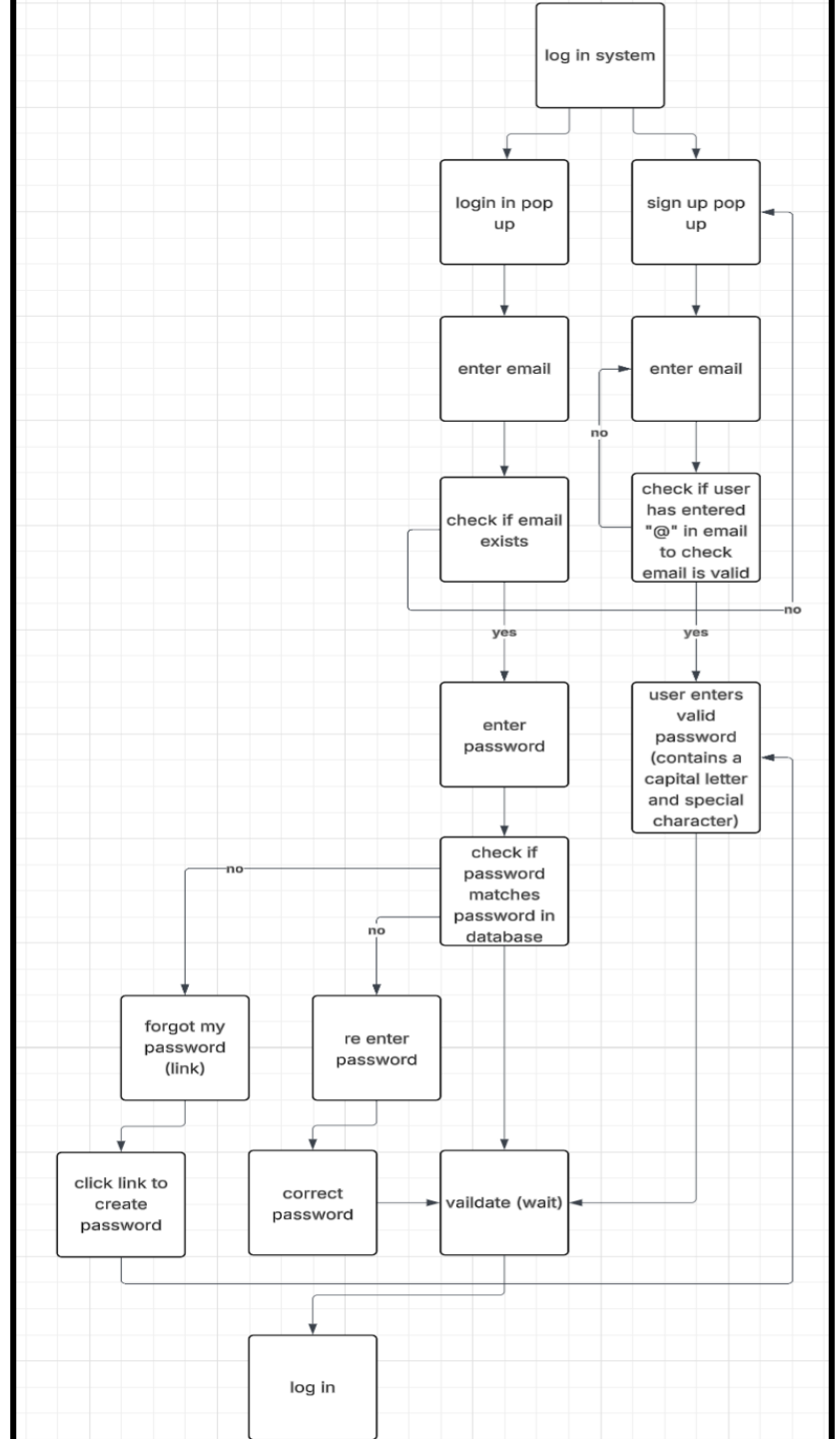
Team 65 Website Use Case Diagrams

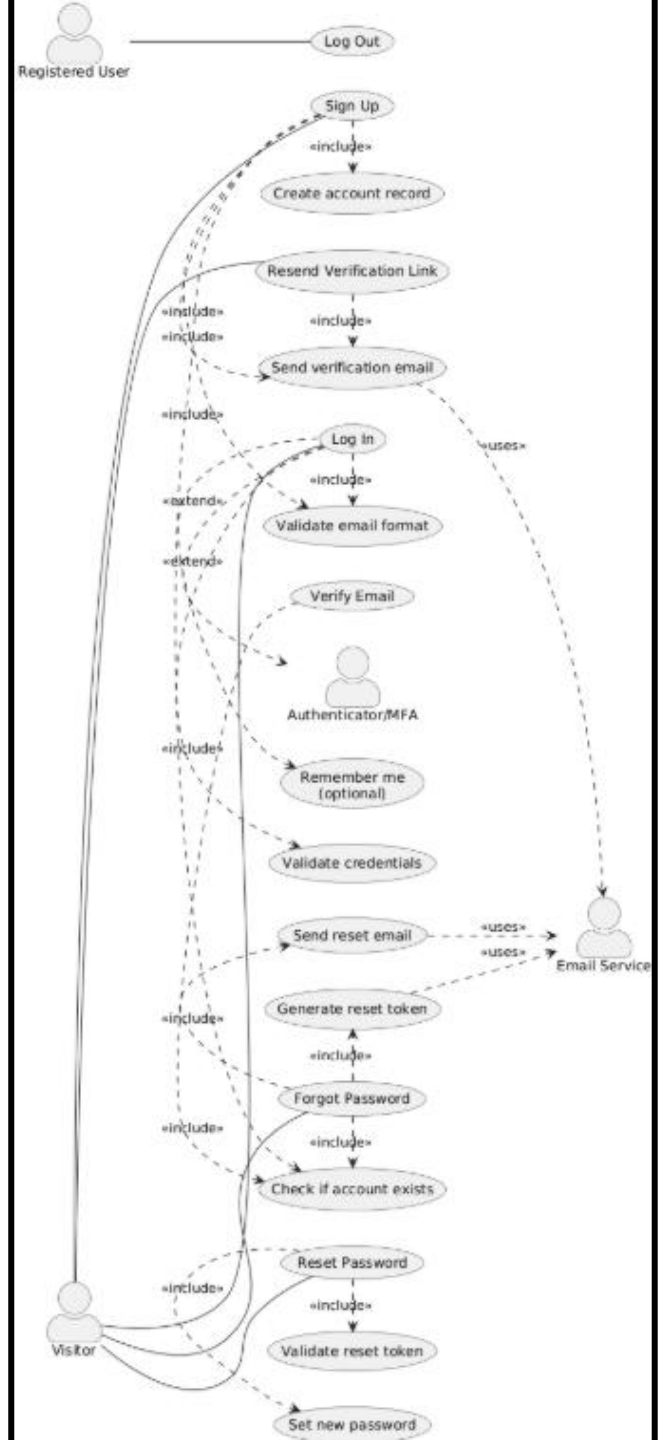
CUSTOMER USE CASE DIAGRAMS

Overall Customer Interaction

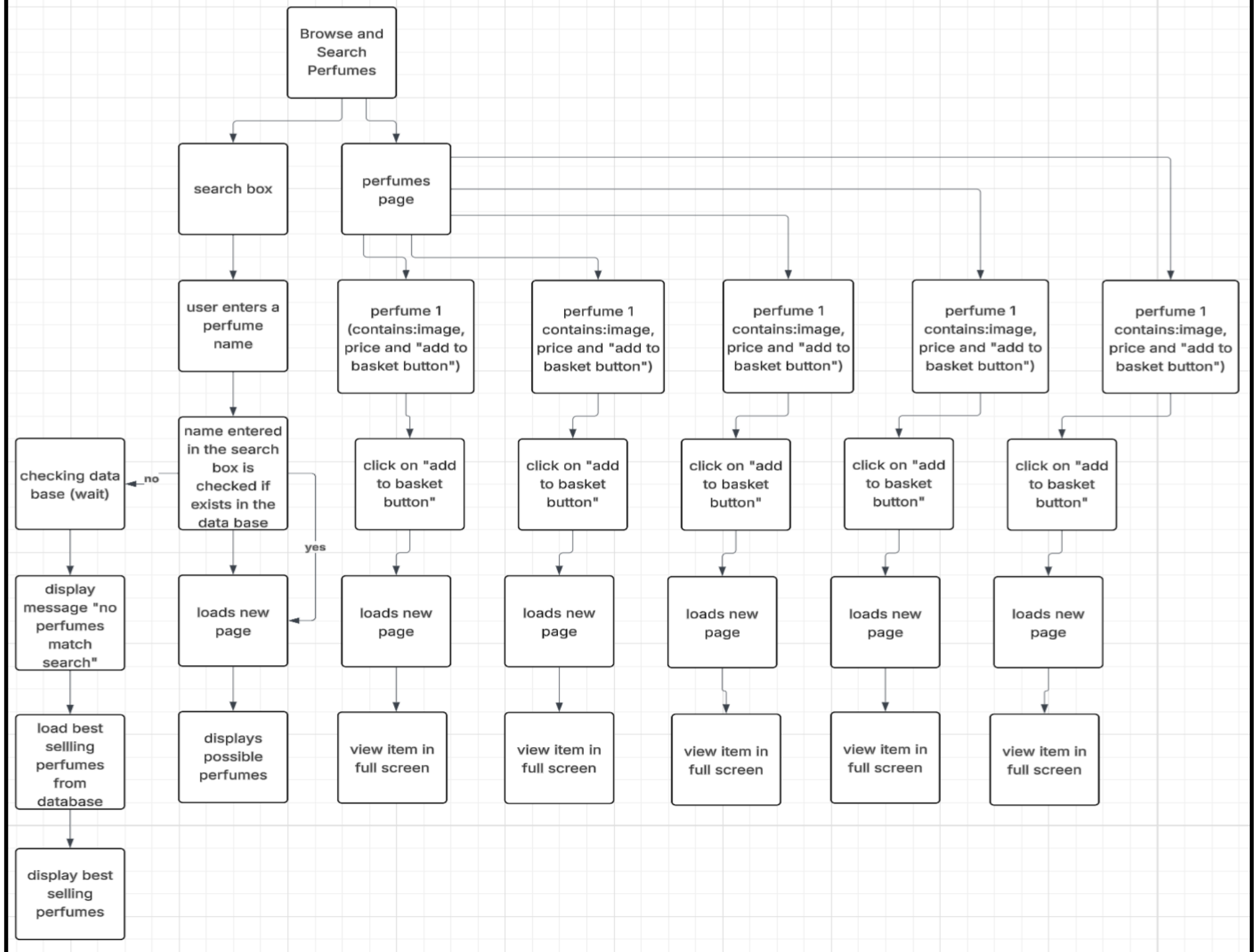

NOVA E-Commerce Platform
Register Account
«extend»
Login / Log out
Browse & Search Perfumes
View Product Details
Add to Cart
«include»
Checkout
CUSTOMER

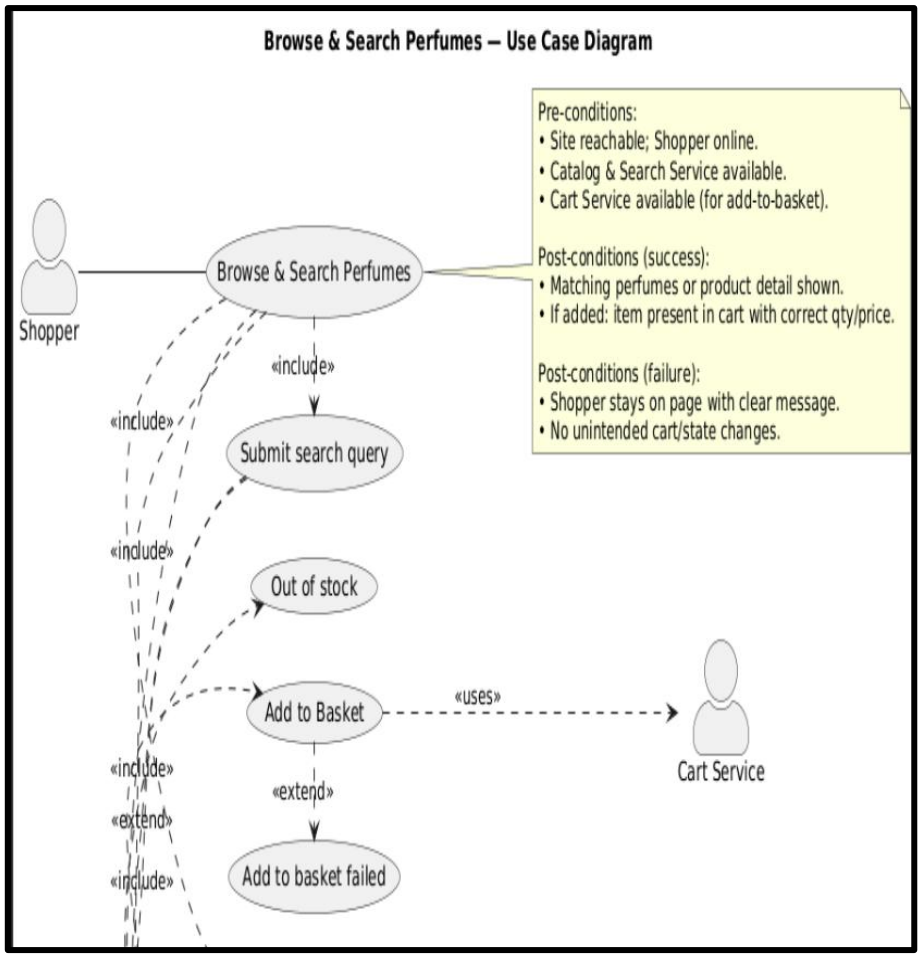
Log-in System

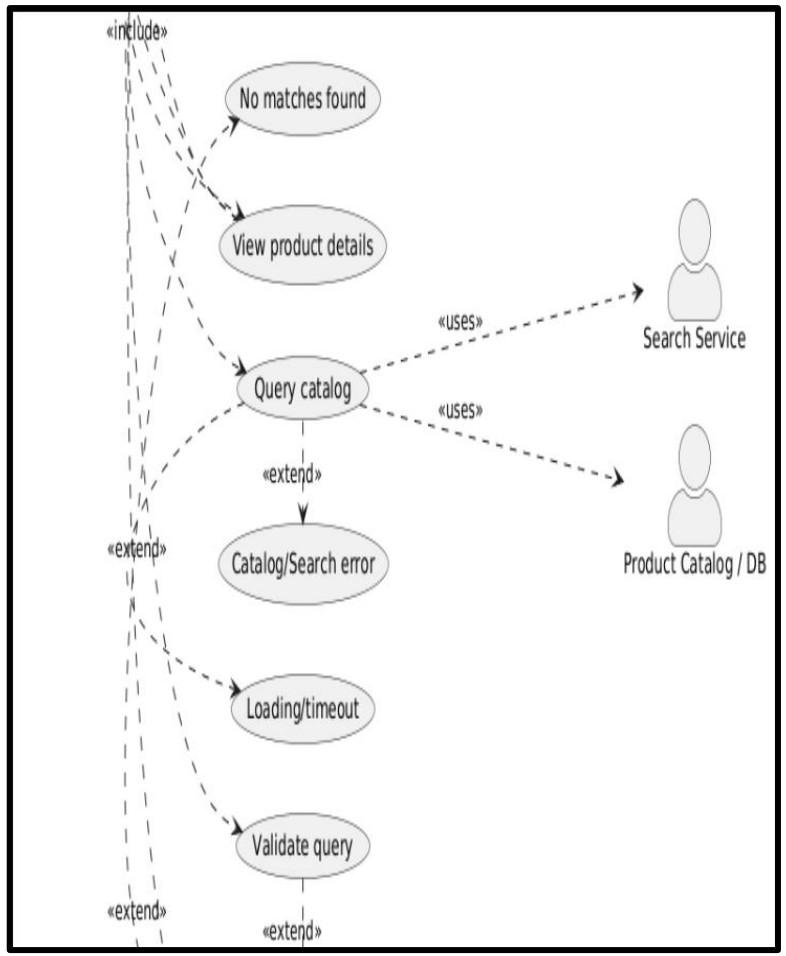

log in system
login in pop up
sign up pop up
enter email
enter email
no
check if email exists
check if user has entered "@" in email to check email is valid
no
yes
yes
enter password
user enters valid password (contains a capital letter and special character)
check if password matches password in database
no
no
forgot my password (link)
re enter password
click link to create password
correct password
vaildate (wait)
log in

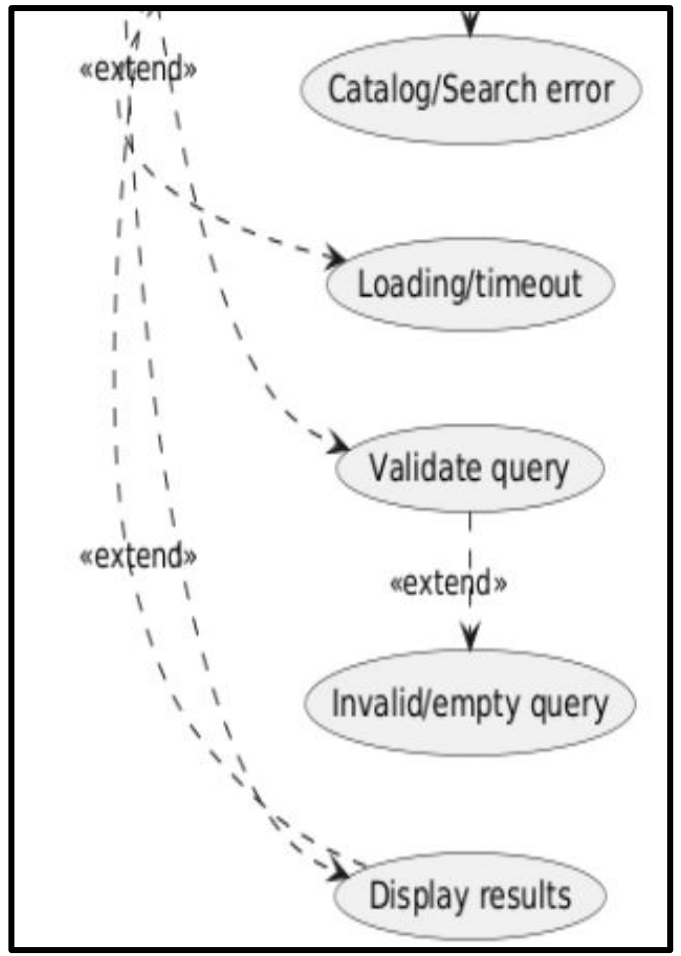

Registered User
Log Out
Sign Up
«include»
Create account record
Resend Verification Link
«include»
«include»
«include»
Send verification email
«include»
Log In
«uses»
«include»
«extend»
Validate email format
«extend»
Verify Email
Authenticator/MFA
«include»
Remember me (optional)
Validate credentials
Send reset email
«uses»
«uses»
Email Service
Generate reset token
«include»
«include»
Forgot Password
«include»
«include»
Check if account exists
Reset Password
«include»
«include»
Validate reset token
Visitor
Set new password

Browse and Search Perfumes

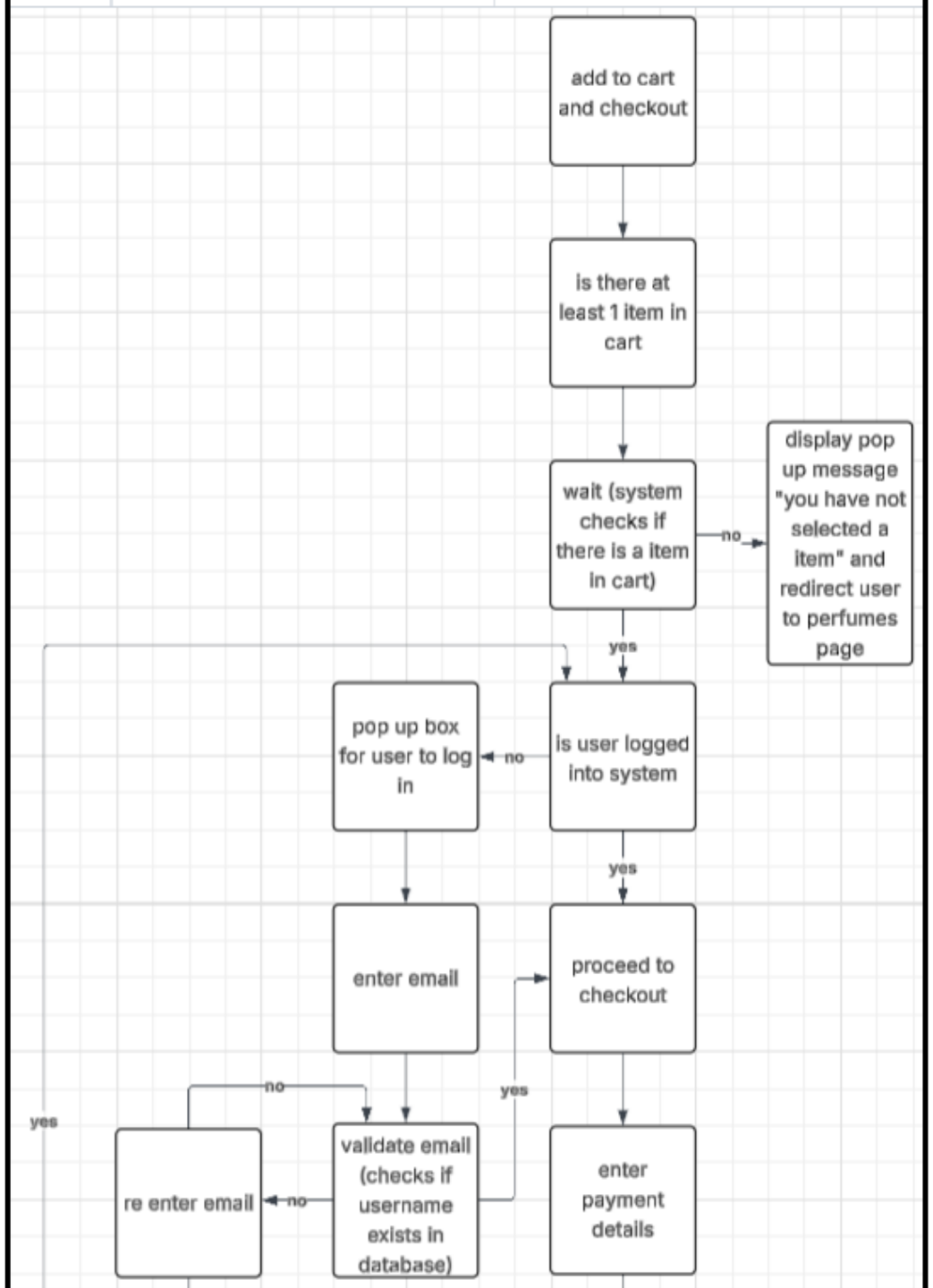

Browse and Search Perfumes
search box
perfumes page
user enters a perfume name
perfume 1 (contains:image, price and "add to basket button")
perfume 1 contains:image, price and "add to basket button")
perfume 1 contains:image, price and "add to basket button")
perfume 1 contains:image, price and "add to basket button")
perfume 1 contains:image, price and "add to basket button")
name entered in the search box is checked if exists in the data base
no
yes
checking data base (wait)
click on "add to basket button"
click on "add to basket button"
click on "add to basket button"
click on "add to basket button"
click on "add to basket button"
display message "no perfumes match search"
loads new page
loads new page
loads new page
loads new page
loads new page
loads new page
load best sellling perfumes from database
displays possible perfumes
view item in full screen
view item in full screen
view item in full screen
view item in full screen
view item in full screen
display best selling perfumes

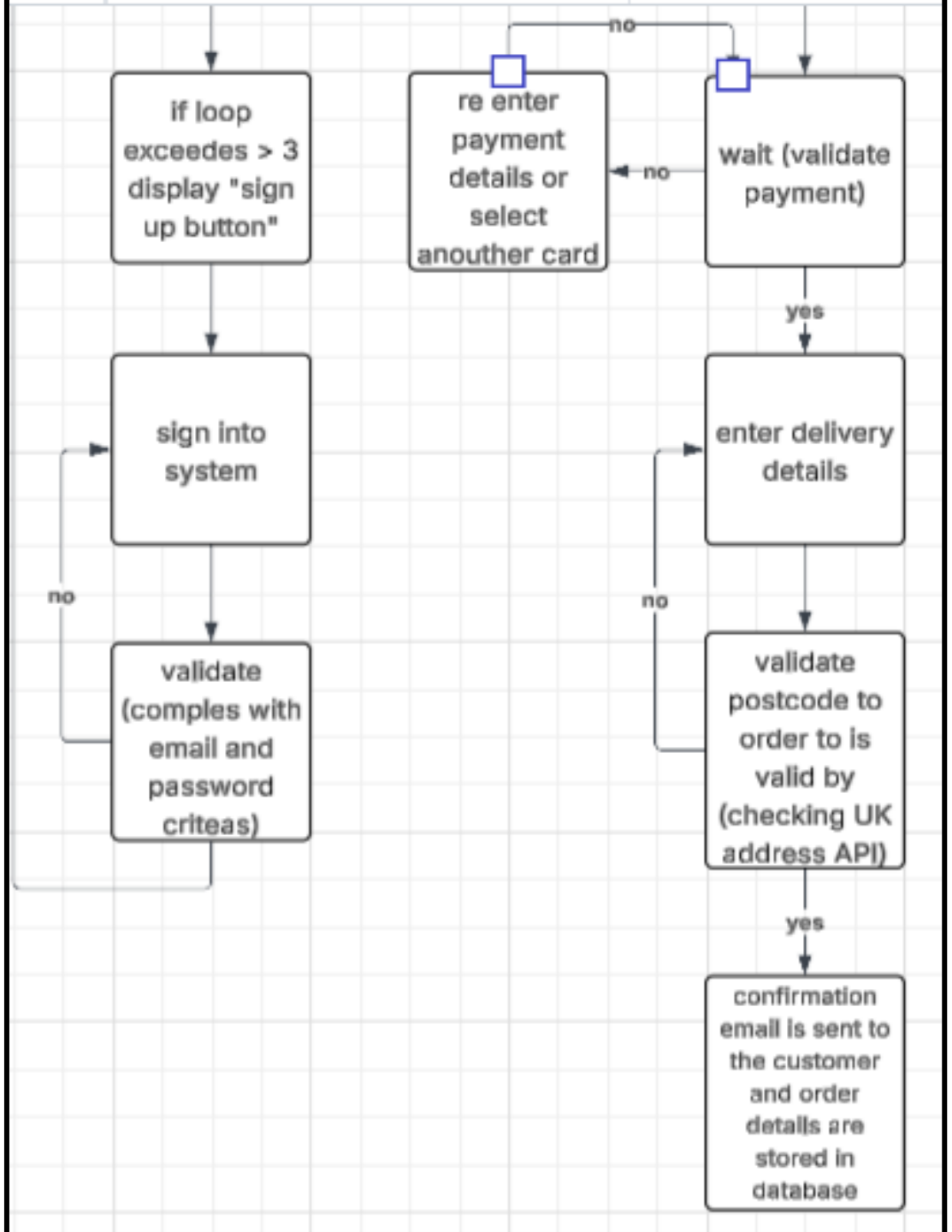

Browse & Search Perfumes — Use Case Diagram
Pre-conditions:
• Site reachable; Shopper online.
• Catalog & Search Service available.
• Cart Service available (for add-to-basket).
Post-conditions (success):
• Matching perfumes or product detail shown.
• If added: item present in cart with correct qty/price.
Post-conditions (failure):
• Shopper stays on page with clear message.
• No unintended cart/state changes.
Shopper
Browse & Search Perfumes
«include»
Submit search query
Out of stock
Add to Basket
«uses»
Cart Service
«extend»
Add to basket failed

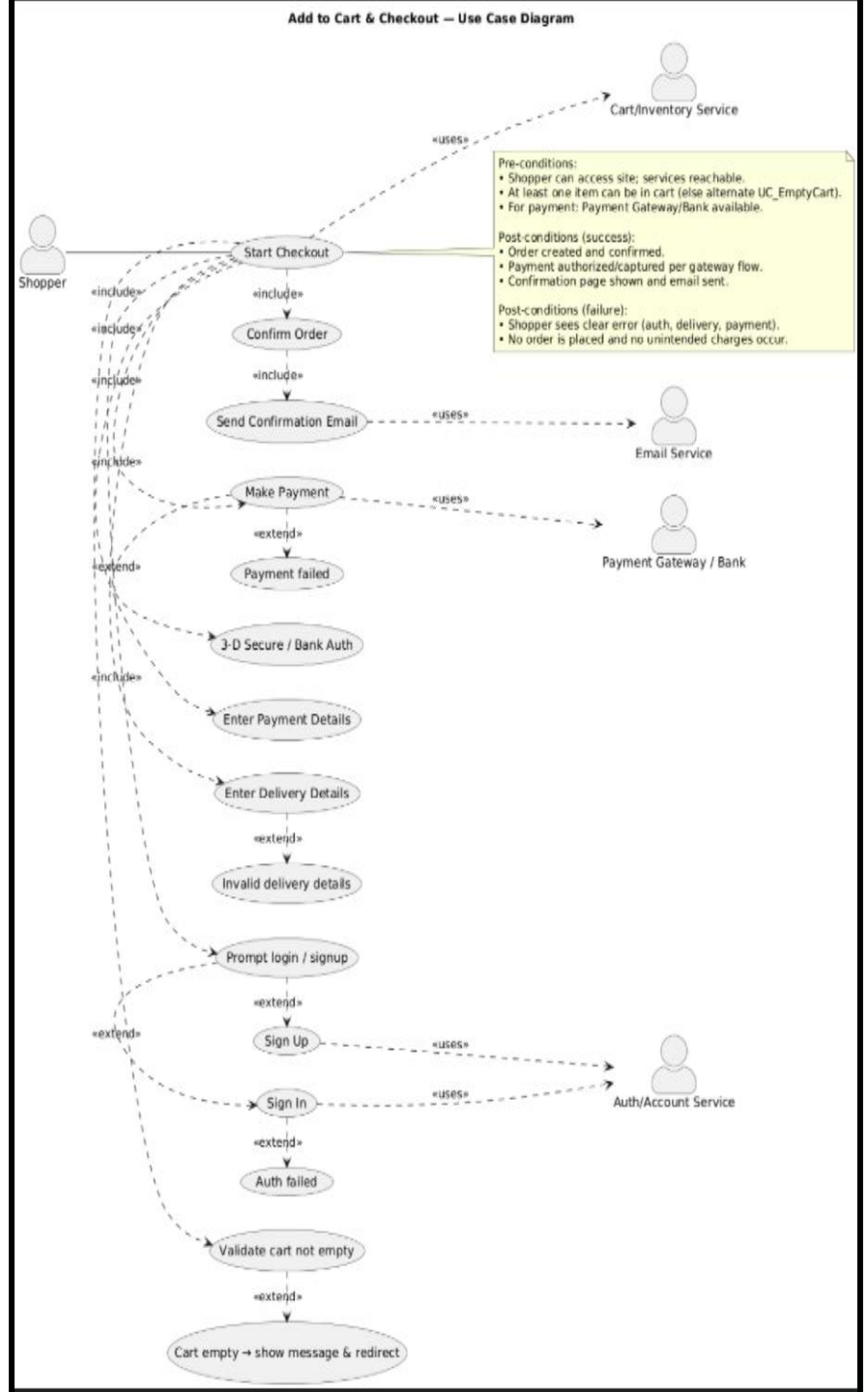

«include»
No matches found
View product details
Query catalog
«uses»
Search Service
«uses»
Product Catalog / DB
«extend»
Catalog/Search error
Loading/timeout
Validate query
«extend»


«extend»
Catalog/Search error
Loading/timeout
Validate query
«extend»
Invalid/empty query
Display results

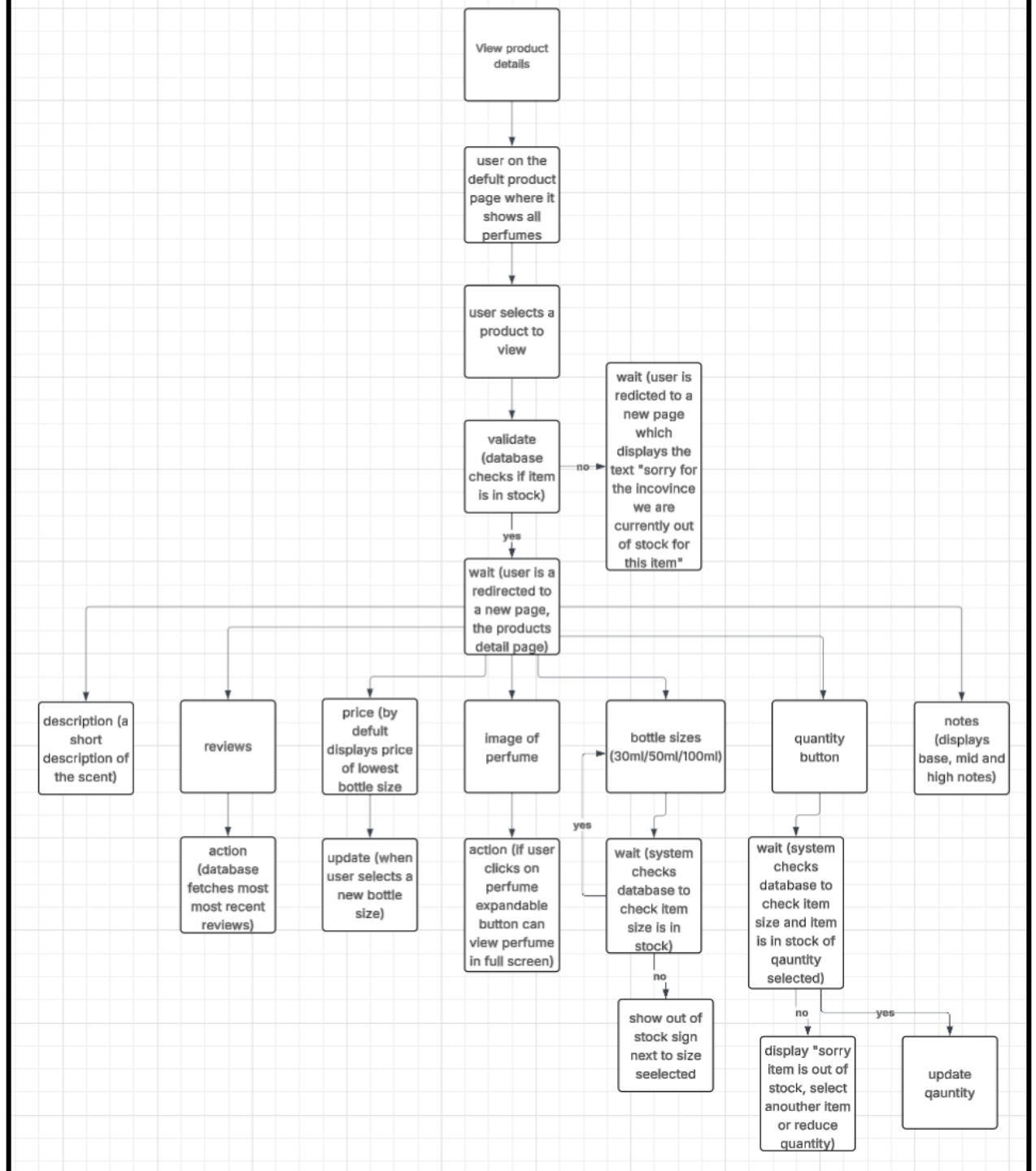
Add to Cart and Checkout

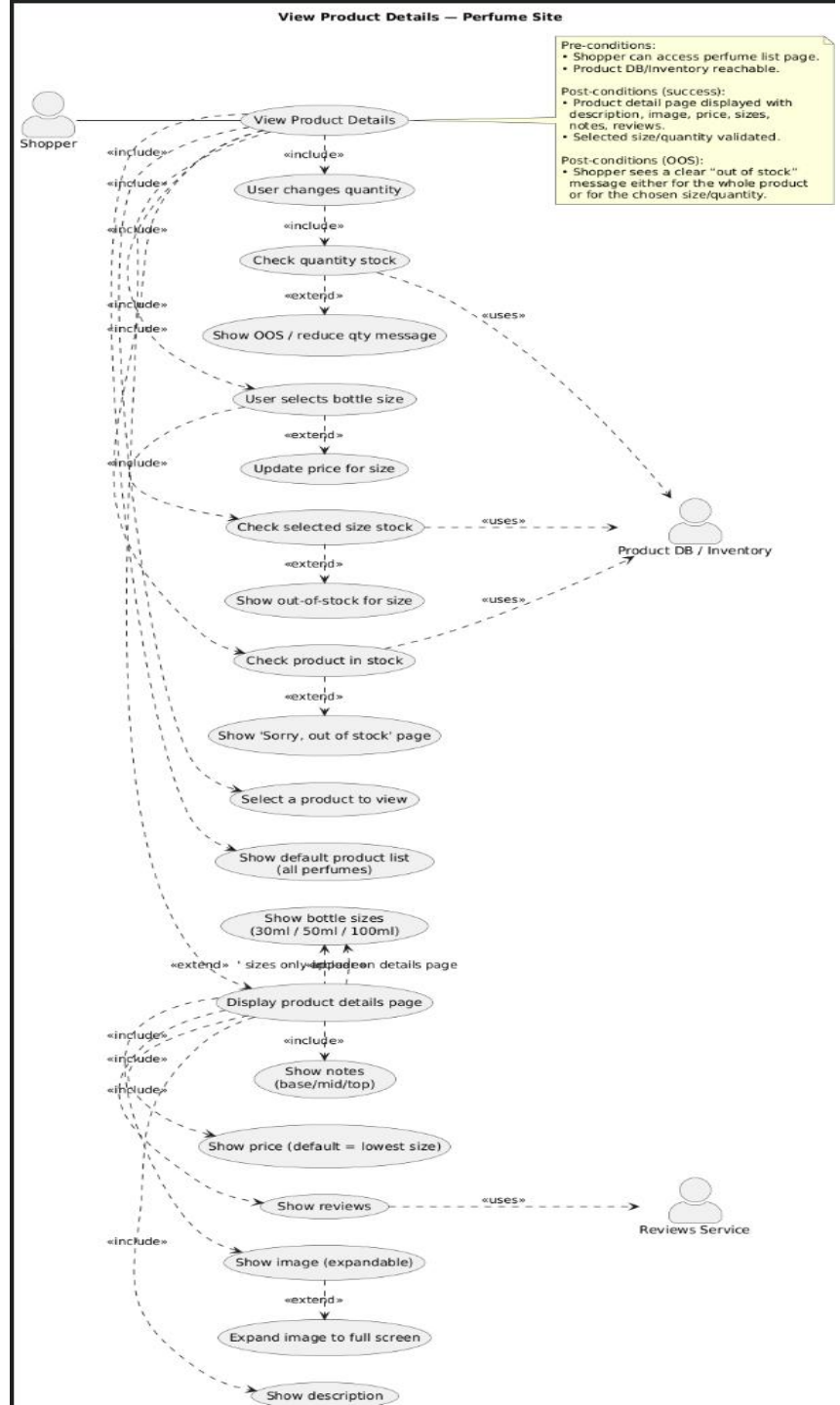

add to cart and checkout
is there at least 1 item in cart
wait (system checks if there is a item in cart)
no
display pop up message "you have not selected a item" and redirect user to perfumes page
yes
is user logged into system
no
pop up box for user to log in
yes
enter email
proceed to checkout
no
yes
yes
validate email (checks if username exists in database)
no
re enter email
yes
enter payment details


if loop exceedes > 3 display "sign up button"
sign into system
no
validate (comples with email and password criteas)
no
re enter payment details or select anouther card
wait (validate payment)
yes
enter delivery details
no
validate postcode to order to is valid by (checking UK address API)
yes
confirmation email is sent to the customer and order details are stored in database


Add to Cart & Checkout — Use Case Diagram
Cart/Inventory Service
«uses»
Pre-conditions:
• Shopper can access site; services reachable.
• At least one item can be in cart (else alternate UC_EmptyCart).
• For payment: Payment Gateway/Bank available.
Post-conditions (success):
• Order created and confirmed.
• Payment authorized/captured per gateway flow.
• Confirmation page shown and email sent.
Post-conditions (failure):
• Shopper sees clear error (auth, delivery, payment).
• No order is placed and no unintended charges occur.
Shopper
Start Checkout
«include»
Confirm Order
Send Confirmation Email
Email Service
Make Payment
Payment Gateway / Bank
«extend»
Payment failed
3-D Secure / Bank Auth
Enter Payment Details
Enter Delivery Details
Invalid delivery details
Prompt login / signup
Sign Up
Sign In
Auth/Account Service
Auth failed
Validate cart not empty
Cart empty → show message & redirect

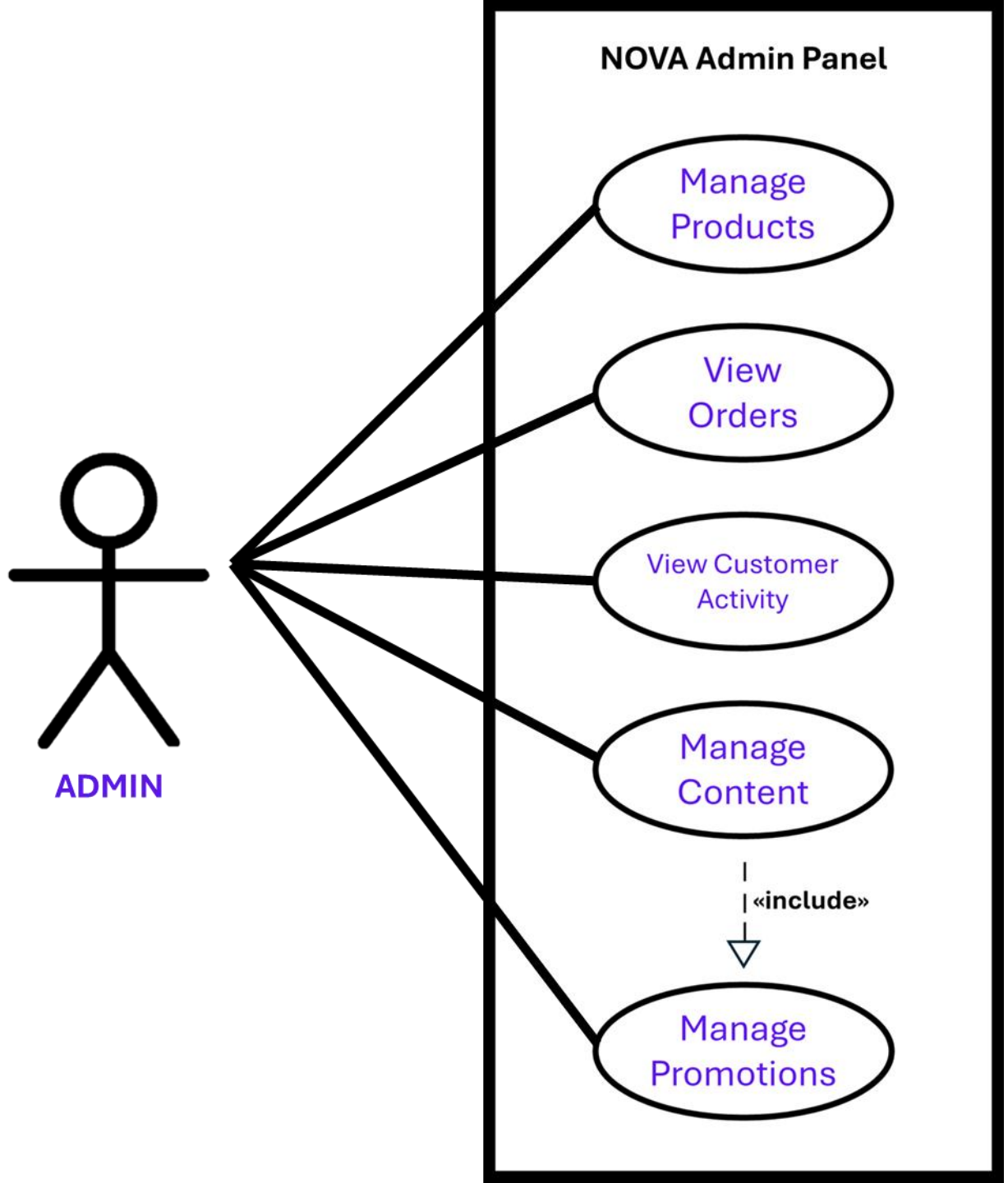
View Product Details


View product details
user on the defult product page where it shows all perfumes
user selects a product to view
validate (database checks if item is in stock)
no
wait (user is redicted to a new page which displays the text "sorry for the incovince we are currently out of stock for this item"
yes
wait (user is a redirected to a new page, the products detail page)
description (a short description of the scent)
reviews
price (by defult displays price of lowest bottle size
image of perfume
bottle sizes (30ml/50ml/100ml)
quantity button
notes (displays base, mid and high notes)
action (database fetches most most recent reviews)
update (when user selects a new bottle size)
action (if user clicks on perfume expandable button can view perfume in full screen)
yes
wait (system checks database to check item size is in stock)
no
show out of stock sign next to size seelected
wait (system checks database to check item size and item is in stock of qauntity selected)
no
yes
display "sorry item is out of stock, select anouther item or reduce quantity)
update qauntity


View Product Details — Perfume Site
Pre-conditions:
• Shopper can access perfume list page.
• Product DB/Inventory reachable.
Post-conditions (success):
• Product detail page displayed with description, image, price, sizes, notes, reviews.
• Selected size/quantity validated.
Post-conditions (OOS):
• Shopper sees a clear "out of stock" message either for the whole product or for the chosen size/quantity.
Shopper
View Product Details
User changes quantity
Check quantity stock
Show OOS / reduce qty message
User selects bottle size
Update price for size
Check selected size stock
Show out-of-stock for size
Check product in stock
Show 'Sorry, out of stock' page
Select a product to view
Show default product list (all perfumes)
Show bottle sizes (30ml / 50ml / 100ml)
Display product details page
Show notes (base/mid/top)
Show price (default = lowest size)
Show reviews
Show image (expandable)
Expand image to full screen
Show description
Product DB / Inventory
Reviews Service
«include»
«extend»
«uses»

ADMIN USE CASE DIAGRAMS

Overall Admin Interaction


NOVA Admin Panel
Manage Products
View Orders
View Customer Activity
Manage Content
«include»
Manage Promotions
ADMIN