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وزارة التعليم
جامعة الأمير سطام بن عبدالعزيز
كلية هندسة وعلوم الحاسب



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Group Project Proposal

Introduction

As many know, Noon.com is a large website and has a phone application. It is very famous for delivering all necessities and luxuries. In this project, we will talk about the Noon.com application, the most prominent problems that have been solved, and a background on the program, in addition to many things such as functional and non-functional requirements, problems, and a work plan, and we will touch on many things in this work.

Problems

One of the disadvantages of Noon is that there are some products that are on the site that you cannot return- Delayed acceptance of the application.

Background

Noon is a website where you can shop for a lot of different things like clothes, electronics, beauty products, and more. It's easy to use, and you can find what you're looking for quickly. They have good prices and lots of sales to help you save money. When you buy something, you can choose from different ways to pay, and they'll deliver it to you fast. They also have a mobile app you can download to shop from your phone.

Proposed solution

Here are some simple solutions to improve Noon's website:

1. Make the website faster so that it loads quickly and doesn't frustrate users.
2. Simplify the checkout process, so that it's easy for customers to buy what they want.
3. Improve the search function, so that users can find what they're looking for quickly.
4. Optimize the website for mobile devices, so that customers can shop on-the-go.
5. Allow customers to leave reviews and ratings, so that others can see what they thought of the products.

Work Plan

| Task | Days | Start | End | Status |
|-----------------------------|------|-------|------|----------|
| Introduction | 1 | 26/4 | 27/4 | Complete |
| problem | 3 | 27/4 | 29/4 | Complete |
| Background | 3 | 29/4 | 30/4 | Complete |
| Proposed approach | 3 | 1/5 | 3/5 | Complete |
| Work plan | 2 | 5/5 | 6/5 | Complete |
| Functional requirements | 2 | 9/5 | 13/5 | Complete |
| Non-functional requirements | 2 | 14/5 | 16/5 | Complete |
| Project activity model | 3 | 18/5 | 21/5 | Complete |
| Project use case modelling | 3 | 22/5 | 25/5 | Complete |
| Creating a class diagram | 2 | 26/5 | 28/5 | Complete |
| Creating sequences diagram | 2 | 29/5 | 31/5 | Complete |
| Report | 1 | 26/4 | 31/5 | Complete |
| Presentation | 1 | 26/4 | 31/5 | Complete |
| Context diagram | 2 | 26/4 | 1/6 | Complete |

Project requirements

Functional requirements

1-User Registration and Login: Users must be able to create an account and log in to access the app's features. This functionality should include password reset and account recovery features.

2-Product Search and Navigation: Users should be able to search for products by name, category, brand, and other criteria. They should also be able to navigate through different categories and subcategories to find the products they are looking for.

3-Product Listings: The app should display product listings that include product images, descriptions, specifications, and pricing information. Users should be able to view multiple images of each product and zoom in to see details.

4-Shopping Cart: Users should be able to add products to a shopping cart, view their cart, and make changes to the items in it. They should also be able to see the total cost of their order, including taxes and shipping fees.

5-Checkout and Payment: The app should provide a secure checkout process that allows users to enter their shipping and billing information, select a payment method, and complete the purchase.

6-Order Tracking: Users should be able to track the status of their orders, view estimated delivery times, and receive notifications when their orders are shipped or delivered.

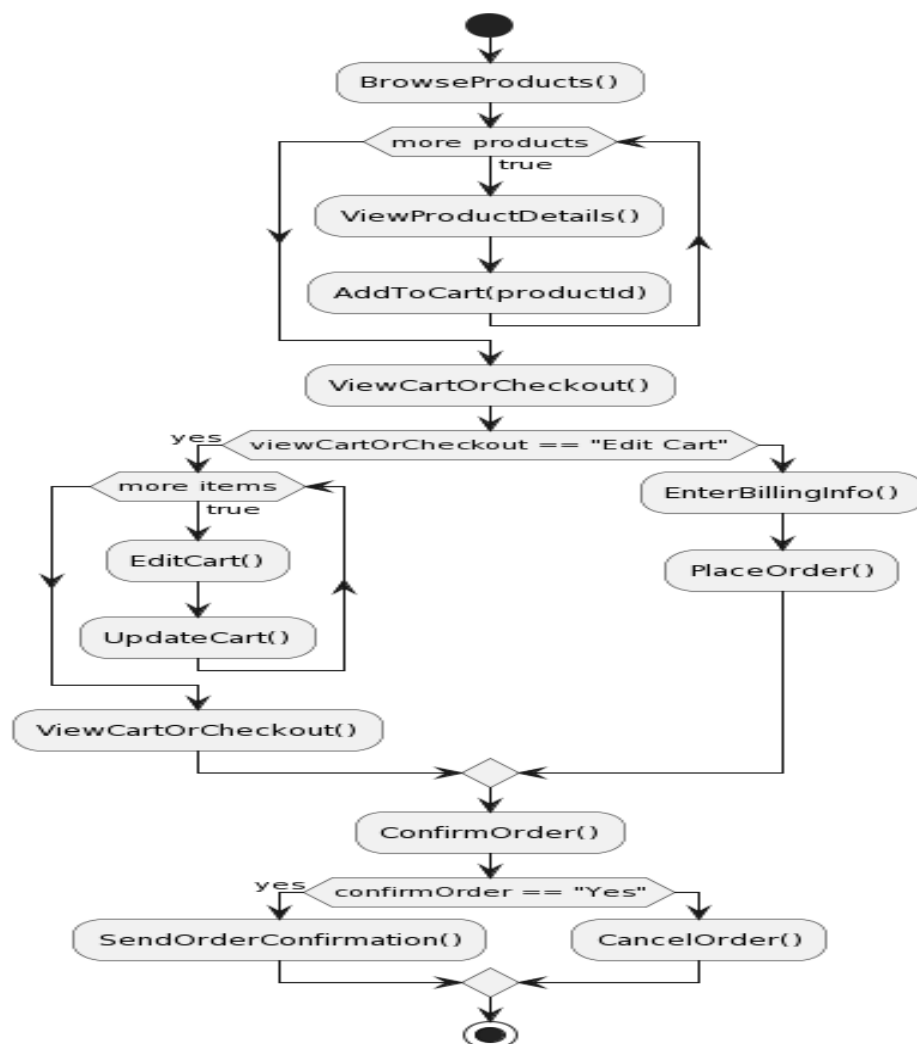
7-User Reviews and Ratings: The app should allow users to leave reviews and ratings for products they have purchased. This feature can help other users make informed purchasing decisions.

8-Wish List: Users should be able to create a wish list of products they are interested in purchasing in the future. This feature can help users keep track of products they like and would like to purchase later.

non-functional requirements

1. **Performance:** The Noon app should load quickly and respond to user actions without significant delays or lag.
2. **Security:** The Noon app should protect user data from unauthorized access, use, or disclosure, and should comply with relevant data privacy and security regulations.
3. **Usability:** The Noon app should be easy to use and navigate, with a user-friendly interface that is accessible to a wide range of users.
4. **Reliability:** The Noon app should be reliable, with minimal downtime or service disruptions, and should be able to handle errors and exceptions gracefully to minimize user frustration.

Activity diagram



Project Use Case Modelling

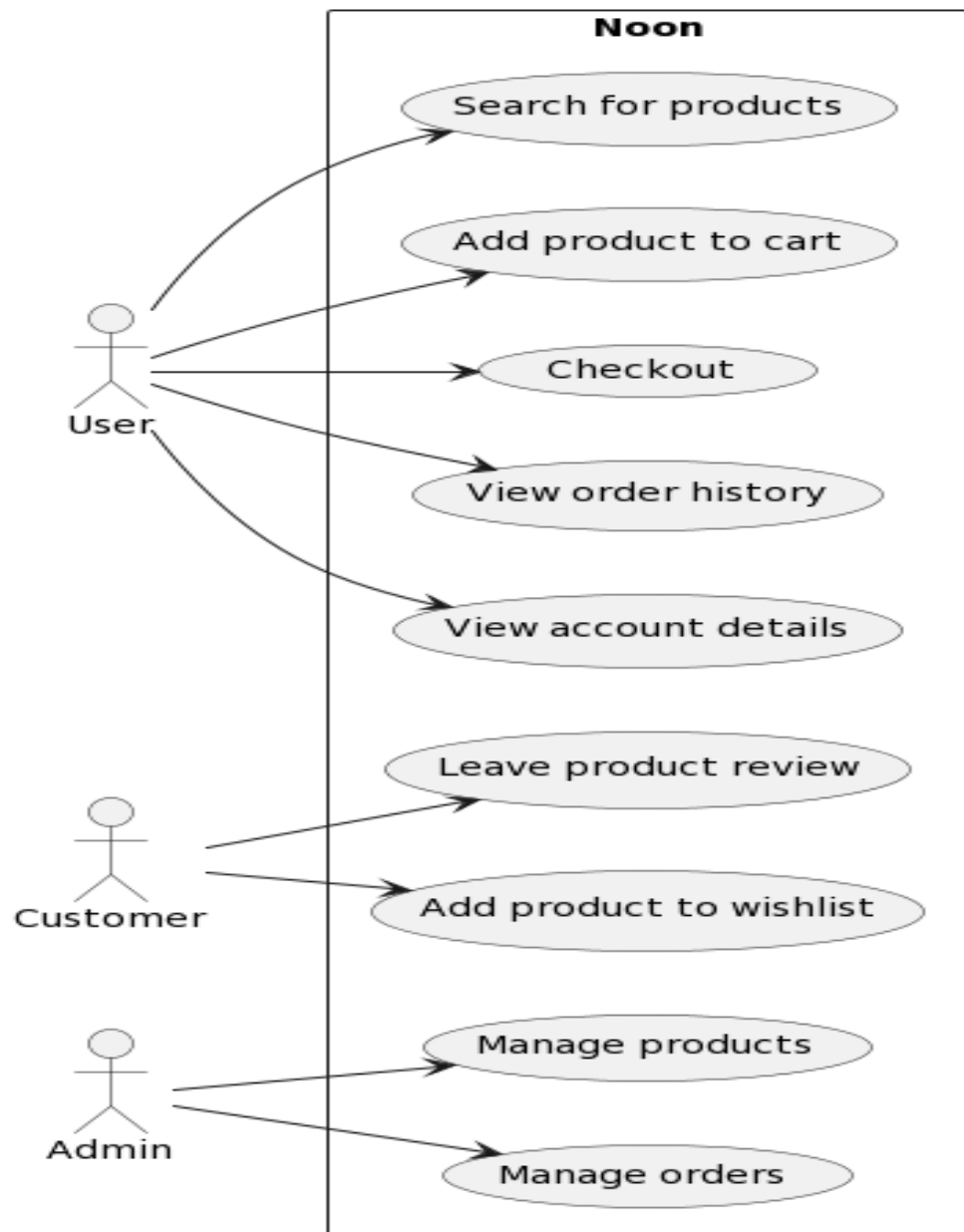


Table 1: Use Cases

| | |
|--------------------|--|
| Actors | User , Customer , Admin. |
| Description | User is a Person who visits noon.com to browse and shop. Customer is a Person who has made a purchase on noon.com and can access support. Admin is a Person who manages and maintains noon.com . |
| Data | products, sellers, customers, orders, payments . |
| Stimulus | The user opens the Noon application or website, goes to the home page, and searches for anything he wants. |
| Response | The user enters the noon.com, and this enables him to search for the required product or search for what is missing in the designated places. |
| Comments | Permissions must be properly distributed so that an ordinary user cannot cancel someone else's order, and an employee cannot cancel or modify an order without the customer's permission. |

Table 2: Use Cases

| | |
|--------------------|--|
| Actors | User , Customer , Admin. |
| Description | User is a Person who visits noon.com to browse and shop. Customer is a Person who has made a purchase on noon.com and can access support. Admin is a Person who manages and maintains noon.com . |
| Data | products, sellers, customers, orders, payments . |
| Stimulus | The customer logs into the Noon app or the website, leaves a product review, adds the products to the wish list, and makes the purchase. |
| Response | When a customer opens noon.com, their response is dependent on their individual experience and needs. Generally speaking, customers may browse products, view promotions and deals, search for specific items, add products to their cart, and proceed to checkout to make a purchase. |
| Comments | Permissions must be properly distributed so that an ordinary customer cannot cancel someone else's order, and an employee cannot cancel or modify an order without the customer's permission. |

Creating Sequence Diagram



Creating Class Diagram

