Assignment 3

INFS 720

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SRS for an e-commerce system in the retail industry, specifically for a grocery store:

Title: Online Grocery Shopping System

Introduction: The goal of this document is to lay out the specifications for an online grocery shopping system that will allow customers to browse and purchase groceries online. The system will include a web-based interface as well as a backend database for storing user data, product data, and transaction data.

Functional Requirements:

1. User Registration and Login:

• Customers can create a new account by providing their email address, password, and personal information.

• Registered customers can log in using their email address and password.

1. Product Catalog:

* The system will provide a grocery product catalog that includes fresh produce, dairy products, packaged goods, and household items. Customers can search the catalog by category, brand, or keyword.

• Every product will have a name, a description, an image, a price, and a unit measurement.

1. Shopping Cart:

• Customers can add products from the product catalog to their shopping cart, view the items in their shopping cart, change the quantity, and remove items.

* The system will show the total cost of the order, including tax and shipping charges.

1. Checkout:

• Customers can begin the checkout process by choosing a delivery or pickup time slot and providing payment and billing information.

• After verifying the payment and billing information, the system will generate an order confirmation.

• For delivery orders, the system will route them to the appropriate store for picking, packing, and delivery.

Non-Functional Requirements:

1. Performance:

• The system must be able to handle many users and transactions.  
• The response time to browse the product catalog and add items to the cart must be less than 2 seconds.  
• The system must provide real-time updates on product and order availability.

1. Security:

• Client information, item information, and exchange information ought to be scrambled and put away safely within the backend database.

* The framework ought to ensure against common security dangers, such as SQL infusion and cross-site scripting.

• The framework ought to comply with important information security laws and directions, such as GDPR and CCPA.

1. Usability:

* The web interface ought to be simple to utilize and explore.
* The framework ought to give clear input to clients amid the checkout prepare, such as mistake messages and affirmation messages.

• The framework ought to bolster different dialects and openness highlights for clients with incapacities.

Reference: "Software Requirement Specification (SRS) for Online Grocery Shopping System" by Debiprasad Sarangi, accessed on 12th March 2023, <https://www.researchgate.net/publication/344156978_Software_Requirement_Specification_SRS_for_Online_Grocery_Shopping_System>.