Software Requirements Specification
Software Engineering

"Online Jewellery Store"

Software Requirements Specification

<27/3/2023>

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Revision History

Date	Description	Author	Comments
<date>	<Version 1>	<Your Name>	<First Revision>
11/3/2023	Proposal Document	Mohamed Nasr	Choose Idea and write an overview
11/3/2023	Proposal Document	Yahya Al-Araby	Challenges and Risks
11/3/2023	Proposal Document	Amr Abdelazaiz	Proposed Technical Approach
24/3/2023	Specification document		Functional and Non-functional requirements
25/3/2023	Specification document	Mohamed Nasr	Use case diagram
25/3/2023	Specification document	Mohamed Nasr	Class diagram
25/3/2023	Specification document	Yahya Al-Araby	GUI design
27/3/2023	Specification document	Amr Abdelazaiz	Context diagram
27/3/2023	Specification document	Amr Abdelazaiz	Concept Diagram
27/3/2023	Specification document	Amr Elsherbiny	Start SRS writing and documentation

Table of Contents

1. Introduction

The project that we proposed is talking about Online Jewellery store which is a market that aims to trade Gold and Silver jewely and Accessories.

1.1 Purpose

The purpose of this document is to provide a preview of the Software Requirement Specification for the project which talks about Online Jewellery Store

1.2 Scope

This subsection should:
(1) Online Jewellery Store
(2) This Jewellery Market Store is for trading Gold and Silver products and accessories
(3) The description the application of the software being specified:
  (a) It is providing original Gold and Silver with 100% purity for 24 karats, and less pure for the 22 and 18 karats.
  (b) Be consistent with similar statements in higher-level specifications (for example, the System Requirement Specification) , if they exist.What is the scope of this software product.

1.3 Definitions, Acronyms, and Abbreviations

- Buyer: a person who wants to view and buy the trusted jewellery products.
- Seller: a person who wants to sell his original jewellery products without underestimating their value.
- Admin: a person who is responsible for the website.
- Technologies: An Online Website to Market for our products and sell them.
- Tools: Make a Deal with a secure Delivery services company to deliver our products to the clients safely.

1.4 References

"ONLINE JEWELLERY SHOPPING Final" ONLINE JEWELLERY SHOPPING Final | PDF | Databases | Password (scribd.com)
www.scribd.com/doc/140364528/ONLINE-JEWELLERY-SHOPPING-final-docx

2. General Description

The purpose of this document is to define the software requirements for the development of an online jewelry store. The online store will allow customers to browse and purchase jewelry products from the comfort of their own homes. The system will be developed to provide a user-friendly interface, efficient and secure payment methods, and an easy-to-use product catalog.
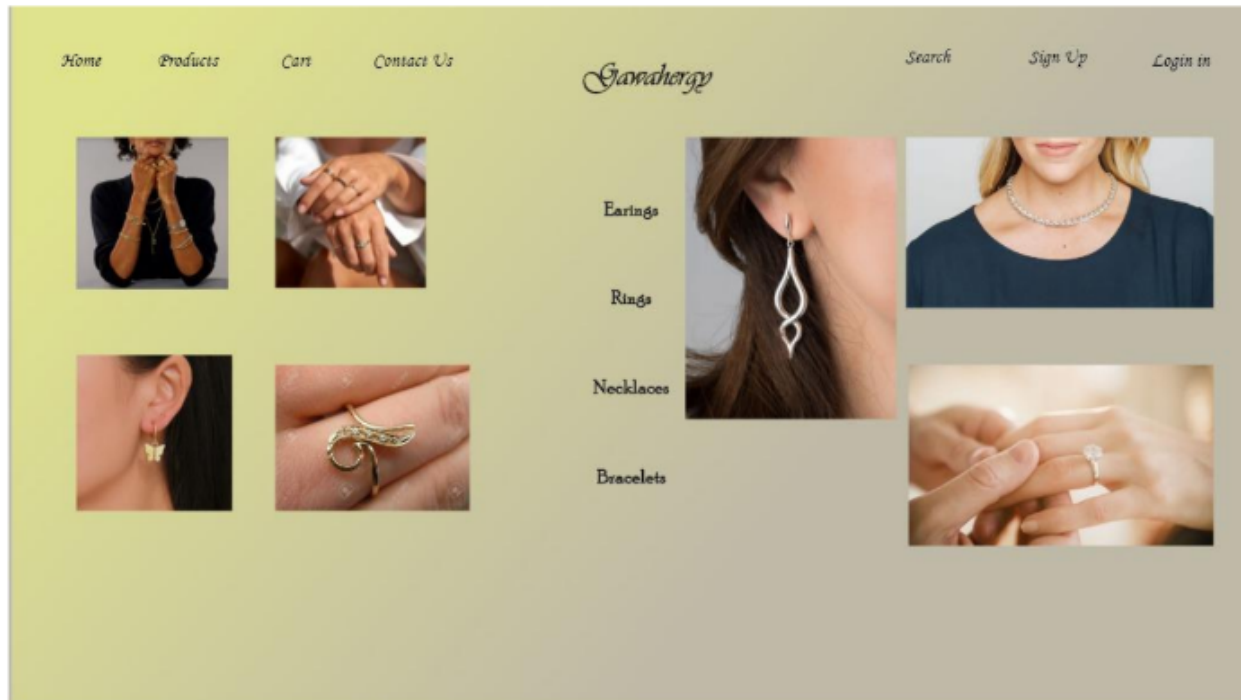
3. Specific Requirements

This will be the largest and most important section of the SRS. The customer requirements will be embodied within Section 2, but this section will give the D-requirements that are used to guide the project's software design, implementation, and testing.

Each requirement in this section should be:
- *Correct*
- *Traceable (both forward and backward to prior/future artifacts)*
- *Unambiguous*
- *Verifiable (i.e., testable)*
- *Prioritized (with respect to importance and/or stability)*
- *Complete*
- *Consistent*
- *Uniquely identifiable (usually via numbering like 3.4.5.6)*

3.1 User Interface Requirements

3.2 Functional Requirements

This section describes specific features of the software project. If desired, some requirements may be specified in the use-case format and listed in the Use Cases Section.
The online jewelry store will be developed as a web-based application that can be accessed from any device with an internet connection. The system will include the following features:

- Product catalog: A searchable catalog of all the products available for purchase.

- Product details: A detailed view of each product, including images, descriptions, pricing, and available sizes and materials.
- Shopping cart: A shopping cart that allows customers to add and remove products as they shop.
- Checkout process: A checkout process that guides customers through the purchase process, including payment information and shipping address.
- User account management: A user account management system that allows customers to create and manage their accounts, view their order history, and save their preferences.
- Order management: An order management system that allows the store manager to track and fulfill customer orders.

1- Registration and login
2- Add product (seller)
3- view product
4- delete product (seller)
5- add product to cart
6- search for product
7- customize profile
8- checkout
9- place order
10- approve order (admin)
11- add to favourites
12- similar products
13- contact us
14- FAQ page
15- Order confirmation by phone
16- Rate seller and buyer
17- view purchasing history
18- customize product (add engraving)
19- shipping & delivery
20- select amount
21- set price (seller)

Product catalog

- The system shall provide a catalog of all products available for purchase.
- The catalog shall be searchable by keywords and product categories.
- The catalog shall display product images, descriptions, prices, and availability.

- The catalog shall display product variations, such as size, material, and color.

Product details

- The system shall display detailed product information, including images, descriptions, prices, and variations.
- The system shall provide a way for customers to view and select product variations, such as size, material, and color.

Shopping cart

- The system shall allow customers to add and remove products from their shopping cart.
- The system shall display the contents of the shopping cart, including product details and total price.
- The system shall allow customers to update the quantity of each item in their shopping cart.

Checkout process

- The system shall guide customers through the checkout process, including payment information and shipping address.
- The system shall display a summary of the order, including product details, total price, and shipping information.
- The system shall allow customers to choose from multiple payment methods, including credit cards, PayPal, and bank transfer.
- The system shall validate the customer's payment information and provide feedback on any errors or issues.
- The system shall send an email confirmation to the customer upon completion of the checkout process.
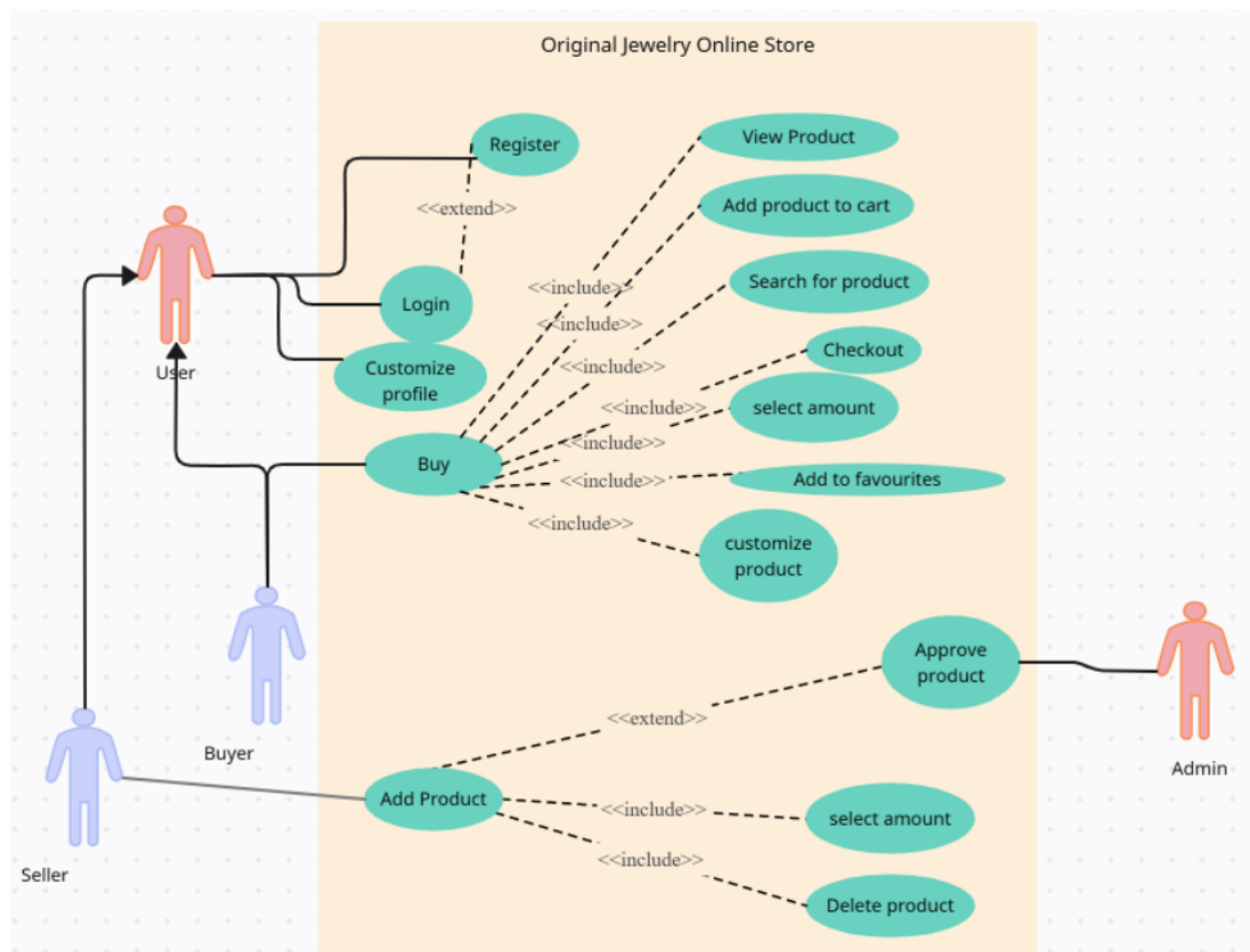
User account management

- The system shall allow customers to create and manage their user accounts.
- The system shall require customers to provide their name, email address, and password to create an account.
- The system shall allow customers to view and edit their account information, such as shipping address and payment information.

- The system shall allow customers to save their preferences, such as their favorite products and sizes.
- The system shall display a customer's order history and allow them to track the status of their orders.
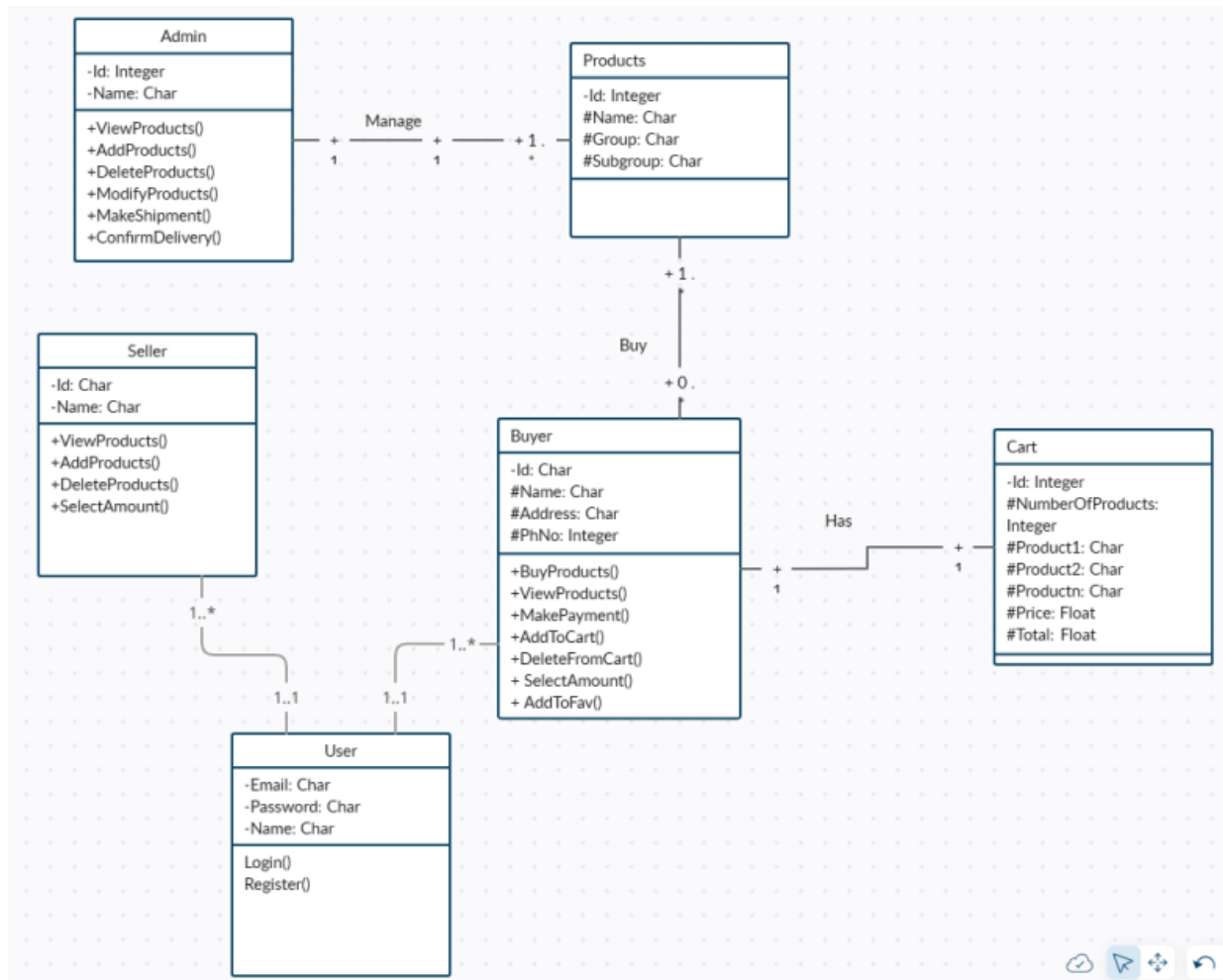
Order management

- The system shall provide a way for the store manager to view and fulfill customer orders.
- The system shall display a summary of each order, including product details, customer information, and shipping address.
- The system shall allow the store manager to update the status of each order, such as processing, shipped, or delivered.

3.3 Use Cases

…

3.4 Classes / Objects

3.5 Non-Functional Requirements

Non-functional requirements may exist for the following attributes. Often these requirements must be achieved at a system-wide level rather than at a unit level. State the requirements in the following sections in measurable terms (e.g., 95% of transactions shall be processed in less than a second, system downtime may not exceed 1 minute per day, > 30 day MTBF value, etc).

3.5.1 Performance
The system shall be able to handle a large number of concurrent users and transactions.

The system shall provide fast response times for product searches and page loads.
The system shall have a maximum page load time of 2 seconds.

3.5.2 Reliability

3.5.3 Availability

3.5.4 Security
The system shall use encryption to protect customer data, such as payment

3.5.5 Maintainability

3.5.6 Portability

3.6 Logical Database Requirements

Will a database be used? If so, what logical requirements exist for data formats, storage capabilities, data retention, data integrity, etc.
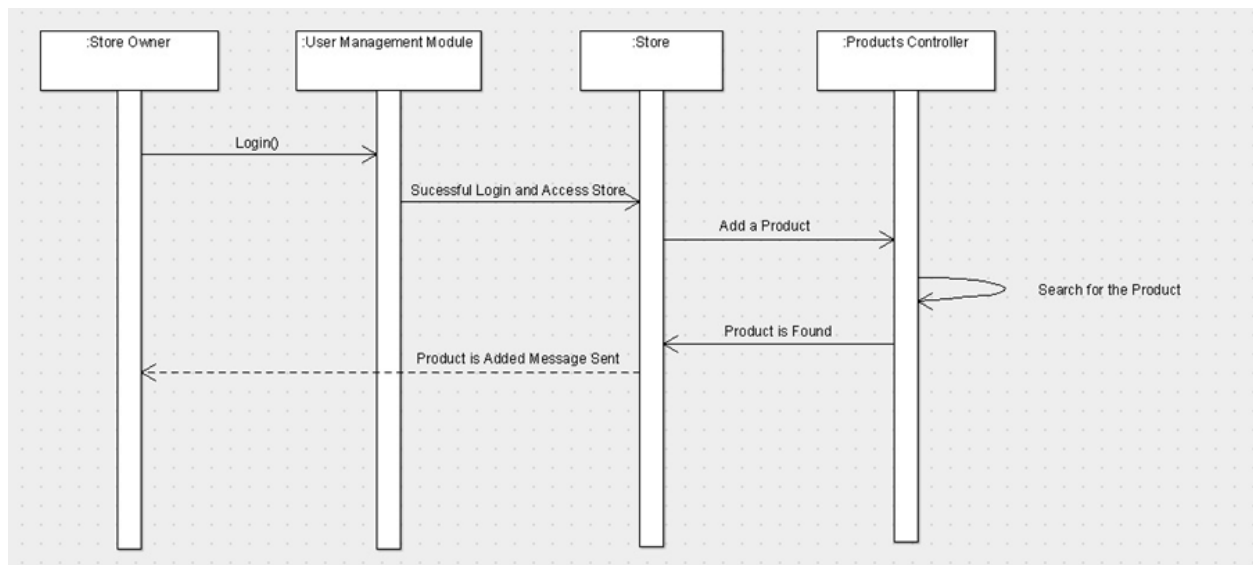
4. Analysis Models

List all analysis models used in developing specific requirements previously given in this SRS. Each model should include an introduction and a narrative description. Furthermore, each model should be traceable the SRS's requirements.
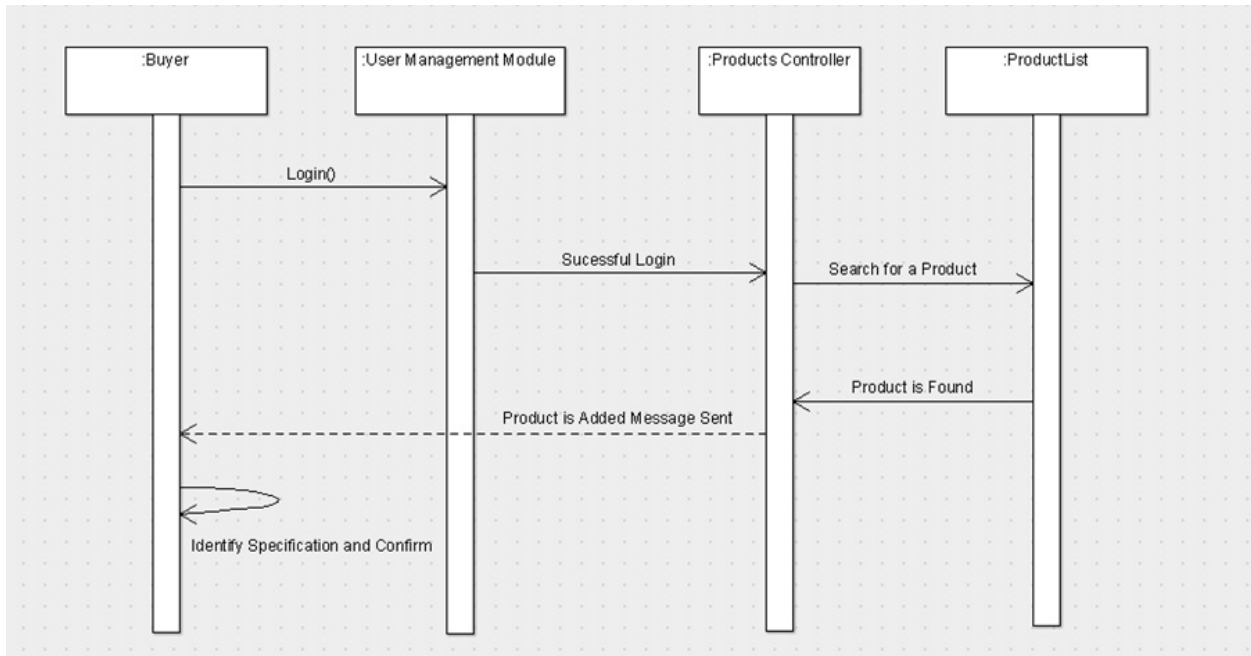
4.1 Sequence Diagrams

4.1.1: Sequence Diagram for the first sprint:
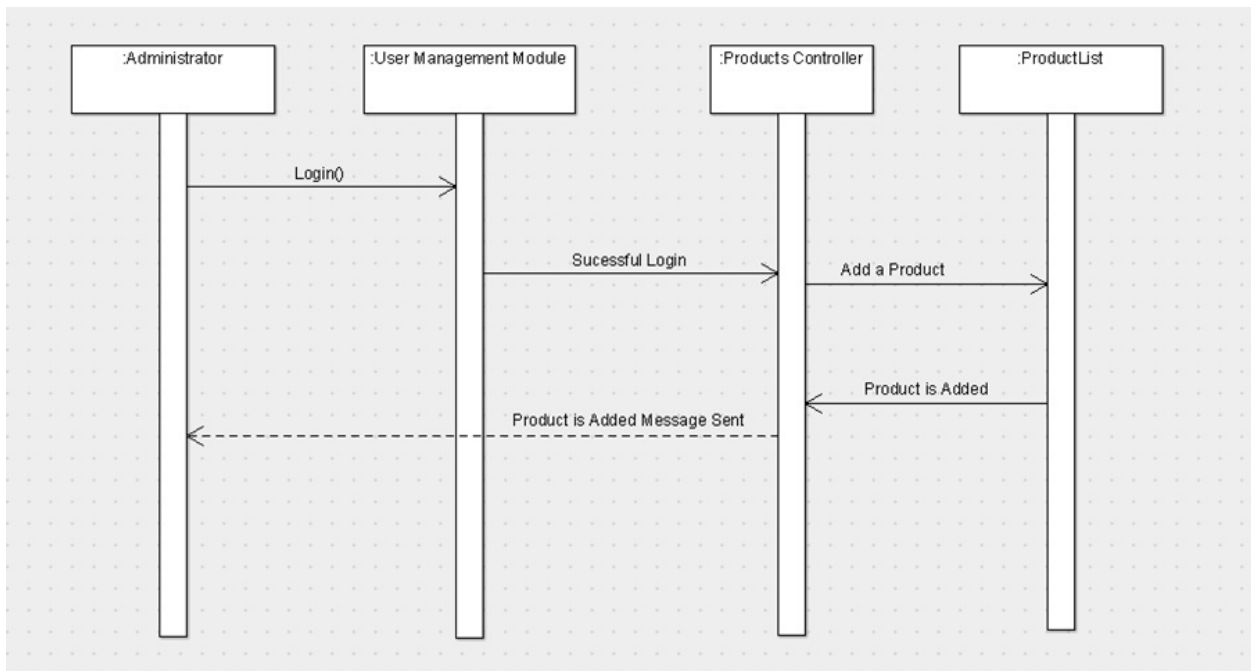
A seller adds a product to the store

4.1.2: Sequence Diagram for the second sprint

A customer buying a product

4.1.3: Sequence Diagram for the third sprint

An administrator adding a product

Online Jewellery Store

CRC

Product	
• Represent a product in the store's catalog • Store information about the product (name, description, price, image, etc.) • Handle product variations such as size, color, material, etc.	• Cart • Order • User

[Edit card #1] [×] [↓]

Cart	
• Contains user's purchases • Allow to add or remove products • Calculates the total price	• Product • User • Order

[Edit card #2] [×] [↑] [↓]

User	
• Store Info about user • Represent User on the website • Allows user to change his/her info	• Order • Cart • Product

[Edit card #3] [×] [↑] [↓]

Order	
• Represent an order made by user • Store info about order (Total price, products, shipping information) • Track the status of the order (processing, shipped, delivered)	• Product • Cart • User

[Edit card #4] [×] [↑]

5. Change Management Process

Identify and describe the process that will be used to update the SRS, as needed, when project scope or requirements change. Who can submit changes and by what means, and how will these changes be approved.