

Report on

Covid Protection Store

Prepared for
A. K. M. Ahsanul Hoque, Adjunct Professor
Mr. Al Hasib Mahamud, Lecturer
CSE3224: Information System Design & Software Engineering Lab

Prepared by
Lab Section: A2
Group No: 1
Monjure Mowla, 180104027
Kazi Fuad Bin Akhter, 180104038
Nawrin Tabassum, 180104045

Date:10/8/21



Department of Computer Science and Engineering

Introduction: The objective of this project is to provide an online platform for buying all sorts of covid protective equipment. The customers can find these products from one place and the store can sell them via online.

Use Case Diagram:

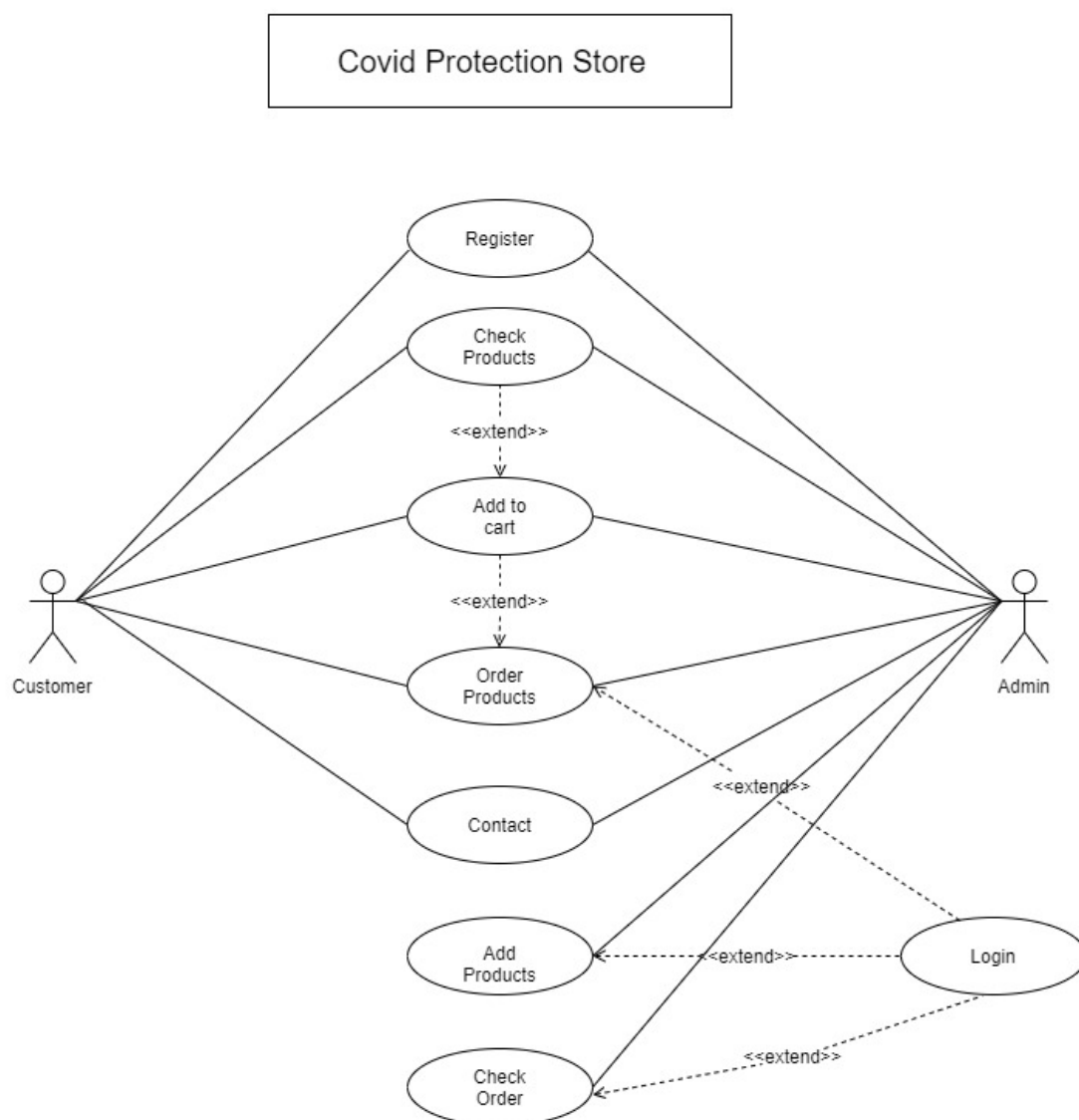


Fig : Use Case Diagram

Data Flow Diagram (DFD):



Fig: Level 0 Data Flow Diagram

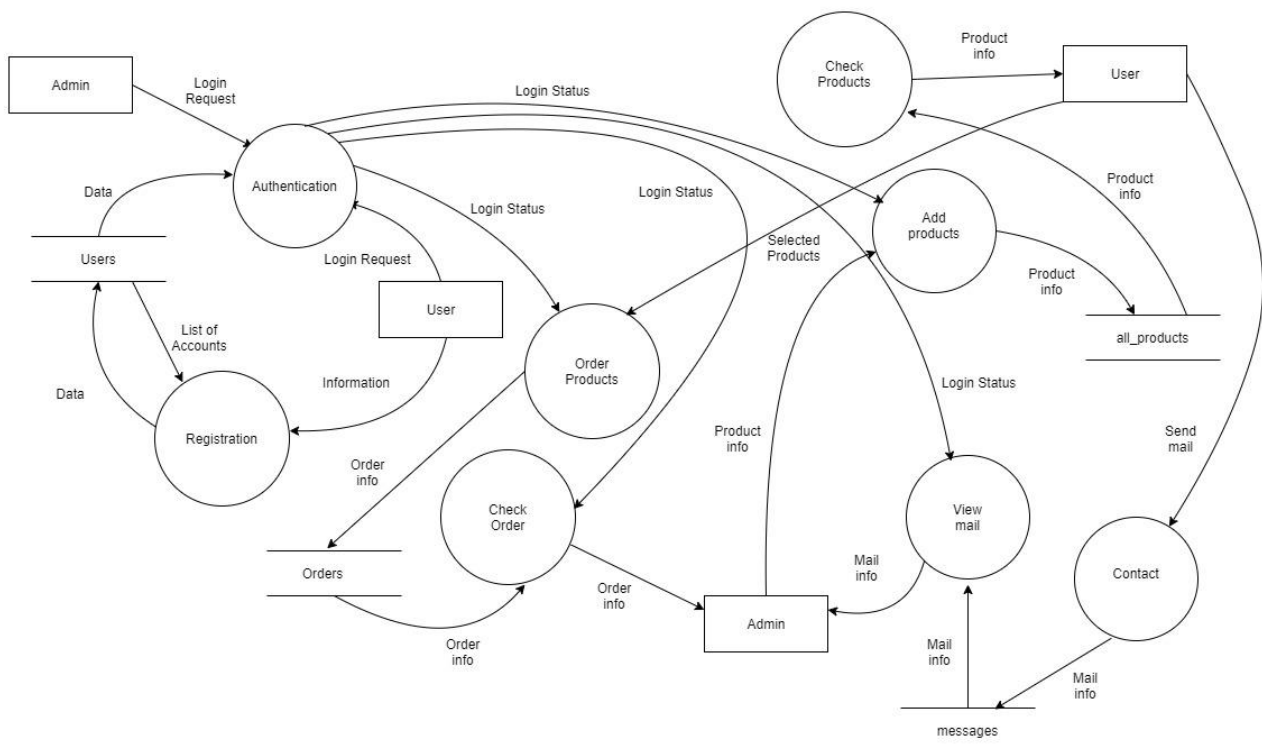


Fig: Level 1 Data Flow Diagram

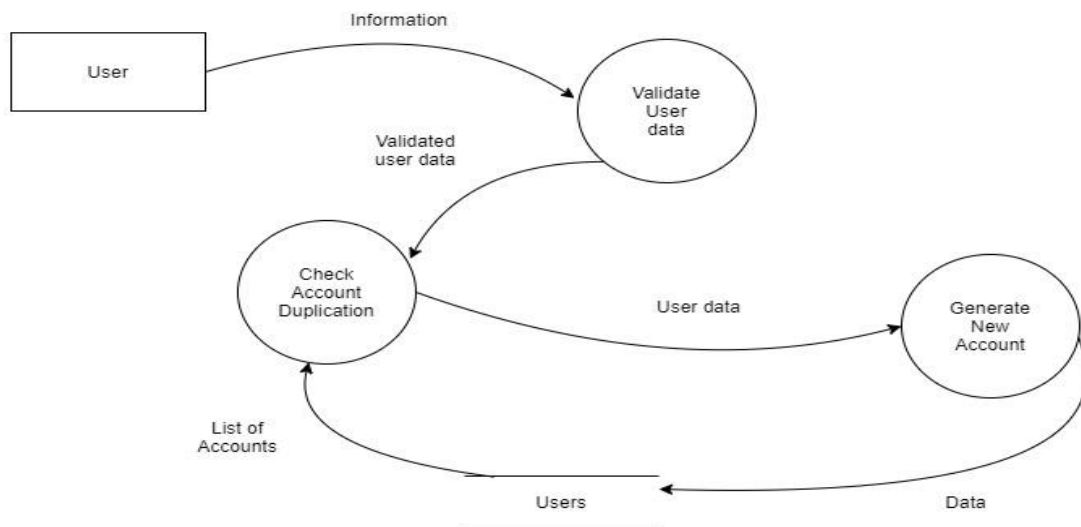


Fig: Level 2 Data Flow Diagram (For registration process)

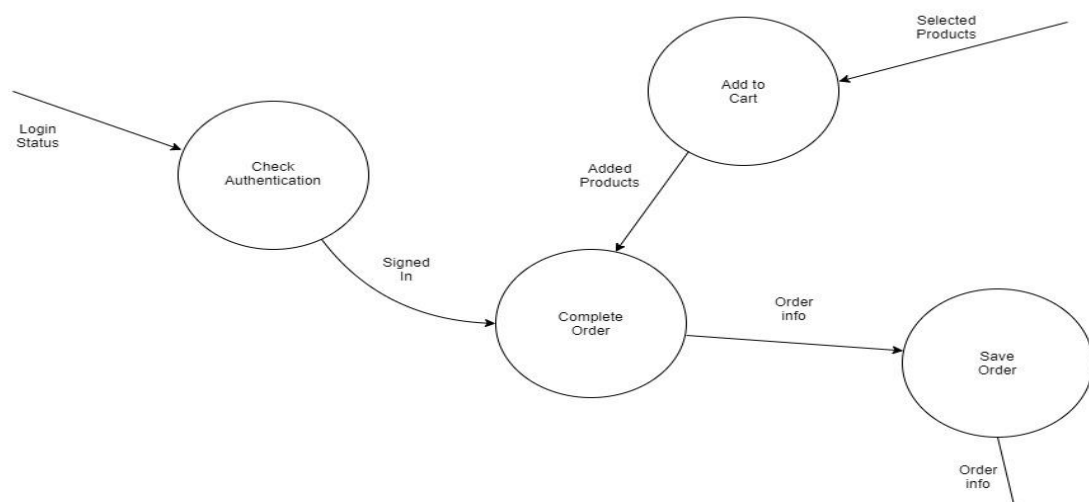


Fig: Level 2 Data Flow Diagram (For order products process)

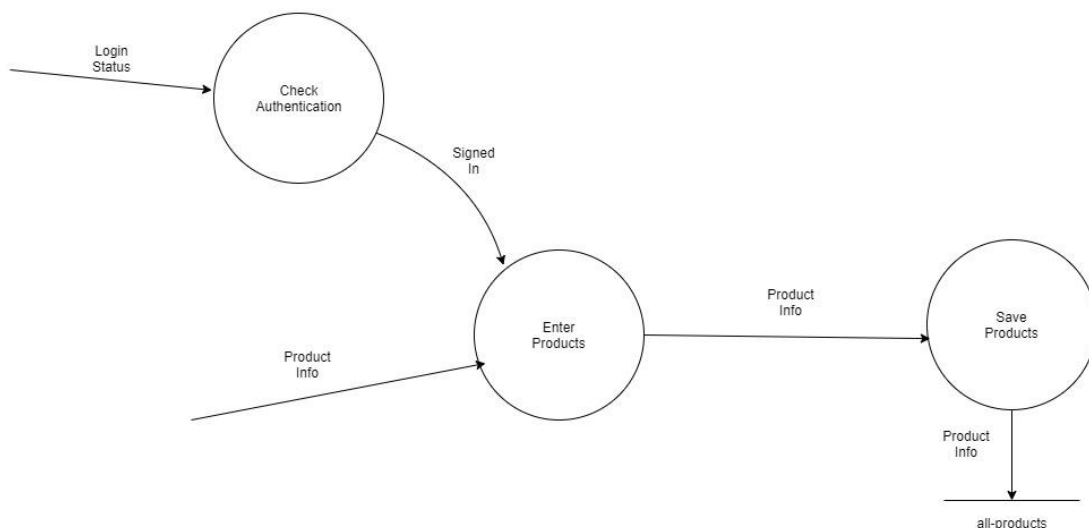


Fig: Level 2 Data Flow Diagram (For add products process)

Use Case Narrative:

Use Case Title:	Registration
Iteration:	1
Primary Actor:	Customers
Goal in context:	To register as our customer and to access our website.
Precondition:	Customers must have a valid email and a phone number.
Trigger:	When customers need to order products and use their email and password to access our website.
Scenario:	<ol style="list-style-type: none">1. Customers go to our website.2. The system displays main page of website.3. Customers select login button.4. The system displays login page and register button.5. The customers select register button and the system displays the register form.6. Customers enter their email, telephone number, address and password into register form.7. Customers confirm the password to confirm their registration.8. The system displays the login page and the customer can login from there on.
Exception:	<ol style="list-style-type: none">1. If the registration is successful, the system displays the login page and the customer can login from there on.2. If the registration is not successful, the system will display the error message to allow customers to re-enter their information again.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Admin
Channels to secondary actors:	Browser in PC and mobile
Open issues:	The security system from other members.

Use Case Title:	Login
Primary Actor:	Customers
Goal in context:	To order products.
Precondition:	Customers must have an account.
Trigger:	When customers need to make an order.
Scenario:	<ol style="list-style-type: none"> 1. Customers go to our website. 2. The system displays main page of website. 3. Customers select login button. 4. The system displays the login page and the customers enter their email and password into the login form. 5. The system displays the profile of the customers.
Exception:	<ol style="list-style-type: none"> 1. If the login is successful, the system displays the profile of the customers. 2. If the login is not successful, the system will display the error message to allow customers to re-enter their information again.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Admin
Channels to secondary actors:	Browser in PC and mobile
Open issues:	The customers can order products and update their profile.

Use Case Title:	Check Products
Primary Actor:	Customers
Goal in context:	To see available products in details.
Precondition:	Some products must be available
Trigger:	When customers need to see products.
Scenario:	<ol style="list-style-type: none"> 1. Customers go to our website. 2. The system displays main page of website. 3. Customers select the products button from menu and the system displays the products page and its categories. The customers can click on a category to see those products. Moreover, they can click on a product to see it in detail. 4. The customers can also go to the products page by clicking on any product category from the home page.
Exception:	<ol style="list-style-type: none"> 1. If the customers select the products button from the menu, they can go to the products page. 2. If the customers select any product category from the home page, they can go to that certain category section of the products page.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Admin
Channels to secondary actors:	Browser in PC and mobile
Open issues:	The customers can see products according to different categories and price ranges.

Use Case Title:	Add to Cart
Primary Actor:	Customers
Goal in context:	To add products in order to make an order.
Precondition:	The customers have to be in the products page or the product details page.
Trigger:	When customers need to order products and add items one by one.
Scenario:	1. From the products page, the customers click on any item and that item is added into the cart.
Exception:	1. If the customers click on a product from the product page, that product gets added into the cart. 2. If the customers view a certain product in details and click on it from the product details page, that product also gets added into the cart.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Admin
Channels to secondary actors:	Browser in PC and mobile
Open issues:	The customers can add any amount of any product to their order before finalizing the order.

Use Case Title:	Order products
Primary Actor:	Customers
Goal in context:	To buy products from our website as our customer.
Precondition:	Customers must be logged in to their account.
Trigger:	When customers need to order their selected products from our website.
Scenario:	<ol style="list-style-type: none"> 1. Customers log in to our website. 2. The customers select products button and the system displays the available products. 3. The Customers select Add to Cart button to add product to the cart. 4. The customers select Cart button and the system displays the product details in the cart. 5. Customers select Confirm Order button to confirm ordering products.
Exception:	<ol style="list-style-type: none"> 1. If the customers are not logged in to their account, they will be asked to log in first to order products.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Admin
Channels to secondary actors:	Browser in PC and mobile
Open issues:	The customer can order multiple products.

Use Case Title:	Add products
Primary Actor:	Admin
Goal in context:	To add more products to sell through our website.
Precondition:	Admin must be logged in to his account
Trigger:	When new types of products are available in the store.
Scenario:	<ol style="list-style-type: none"> 1. The admin provides their email and password in the login form to log in to the system 2. Admin select Add products button to add more products to the website. 3. Admin enters new product name, price, quantity, description, picture to add the product 4. After the product is added, it is showed to the customers through the products page
Exception:	<ol style="list-style-type: none"> 1. If the admin is not logged in, he will not be able to add products. 2. The admin cannot update or delete products.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Customers
Channels to secondary actors:	Browser in PC and mobile
Open issues:	Showing all the existing product details

Use Case Title:	Check orders
Primary Actor:	Admin
Goal in context:	To check the details of the orders made by the customers
Precondition:	Admin must be logged in to his account
Trigger:	When admin wants to check all the order details of the customers.
Scenario:	<ol style="list-style-type: none"> 1. The admin provides their email and password in the login form to log in to the system 2. Admin select all orders button to check all the order details. 3. All the order information of the customers is shown to the admin through the All orders page
Exception:	<ol style="list-style-type: none"> 1. If the admin is not logged in, he will not be able to check orders.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Customers
Channels to secondary actors:	Browser in PC and mobile
Open issues:	Showing all order details

Use Case Title:	Contact
Primary Actor:	Customers
Goal in context:	To contact us or give us a message through our website.
Precondition:	Customers must provide their email while sending us a message.
Trigger:	When customers contact our store for some information.
Scenario:	<ol style="list-style-type: none"> 1. The customers select Contact Us button and the system displays a form. 2. The Customers provide their name, phone number, email and types a message in the form 3. Customers select Send button to send the message to us.
Exception:	<ol style="list-style-type: none"> 1. If the customers don't provide the phone number, they will still be able to send message. 2. If the customers don't provide the name or email, they will not be able to send message.
Priority:	High Priority
When available:	First Increment
Frequency of use:	Every Day
Channel to actor:	Browser in PC and mobile
Secondary actors:	Admin
Channels to secondary actors:	Browser in PC and mobile
Open issues:	The system can check for messages.