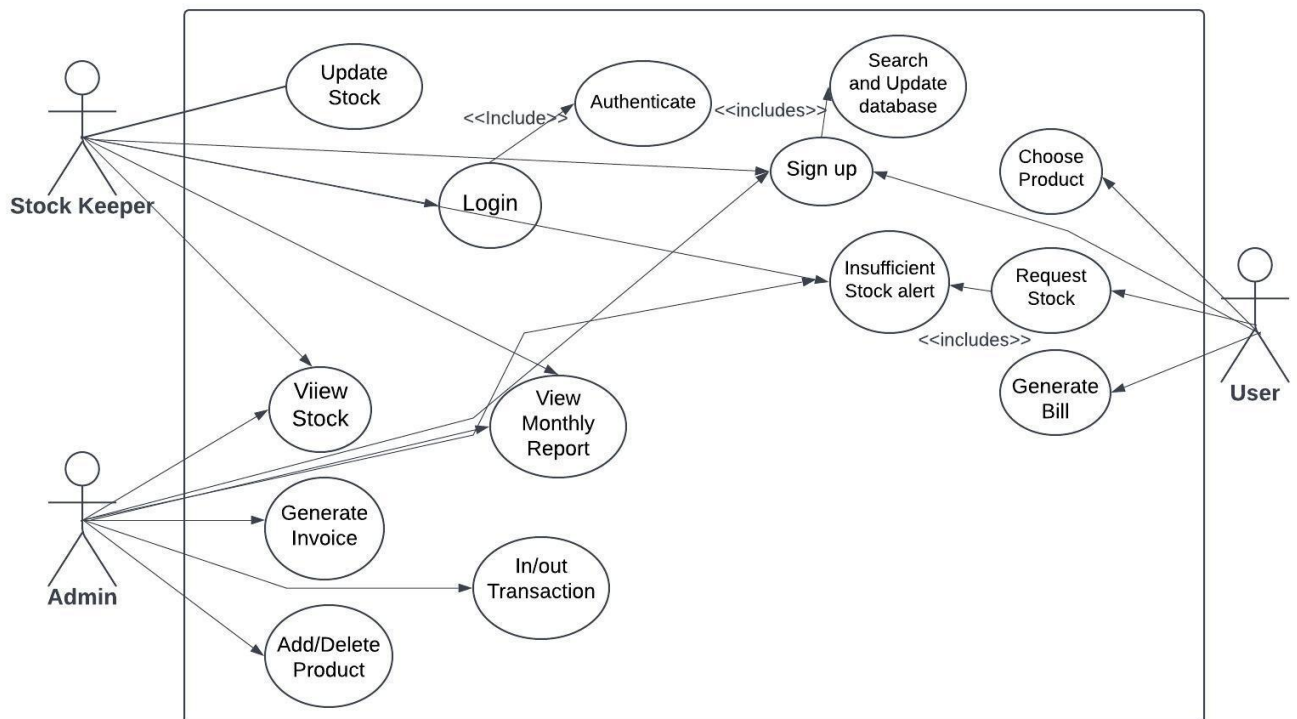


Inventory Management System

Aim-

To draw a use case diagram for an Inventory Management System application.

USE CASE DIAGRAM:



USE CASE

- **Sign up** :- Every user must create an account with their mail id and set up a password to use the stocks.

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REGISTER NUMBER:205001077

- **Login:-** Authentication and validation of the authorized handlers of the system using a valid username and password.
- **Invalid Username/Password:-** During the login process, the entered username and password are checked for valid username and password in the database.
- **Register new products:-** Allows the Admin to register the arrival of new products in the database.
- **Removal of products:-** Allows the removal of the products that are not available in the database.
- **View stocks:-** Allows the Admin and Stock Manager to view the availability of products in the database.
- **Generation of the monthly report:-** Generates monthly reports about the In and Out transactions of the stock in the inventory.
- **Insufficient Stock Alert:-** Gives alert about the insufficiency of the stocks available in the inventory.
- **Update stock:-** Allows only the stock Manager to update the stock when a new arrival arrives or an item sold out from the inventory.
- **Request stock:-** Allows the user to request the stock that he/she wishes to purchase from the inventory.
- **Place an order:-** Allows the user to search for a product in the store and add it to the bill with the required quantity.
- **Search of an item:-** Allows the user to search if an item is available in the inventory or not.
- **Generate Bill:-** When the user completes his/her purchase and places the order, he will be able to generate a bill for his/her purchase.

- **Generation of daily reports:-**Allows the admin to know about the in and out transactions of the stocks every 24 hours.

Identification of Actors-

- **Admin:** An employee with complete authorization over the inventory and responsible for adding and deleting new products in the inventory.
- **Stock Manager:** One with authorization to update the inventory.
- **User:** An individual who is willing to purchase products from the store.

Identification of Scenarios-

Scenario 1

Actors	User
Goals	Log into the system
Pre-conditions	-
Post-conditions	The User is logged into the application

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Success scenario	If the user has already signed up, the user is redirected to the login page. Else they are taken to the sign-up page where they are requested to fill in the details needed for setting up an account. Once signed up they are redirected to the login page. Whereas on the login page, they are requested to give the registered mail and password. If they are legitimate, they are successfully logged into the application.
Failure scenario	If the user has an account already, the user is]redirected to the login page. They are requested to enter their registered mail and password on the login page. If they are incorrect they are not logged into the application.

Scenario 2

Actors	Stock Manager
Goals	Update stock
Pre-conditions	The Stock Manager must be logged in
Post-conditions	The stock quantity is updated in the database of the inventory

Success scenario	The Stock Manager logs into the system and updates the quantity of the product which has been added to the inventory and verifies it.
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Failure scenario	The stock manager logs in to the system and updates the details of the wrong product and when the same product is requested, in case of insufficient stock alert is not generated.
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Scenario3

Actors	Admin
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Goals	Adds new product to the Inventory
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Pre-conditions	-
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Post-conditions	A new product is added to the inventory whose details can be now updated by the stock manager
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Success scenario	The admin logs in using his credentials, once the credentials are validated, the admin enters all the details about the product to be added and once all the necessary details are verified the product is added to the inventory. Once the product is successfully added to the inventory, the stock manager can update the quantity of the product.
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Failure scenario If the admin enters invalid credentials, the login would be terminated. And, if the login is successful but the entered details of the product are invalid the product will not be added to the database of the inventory.