جامعة الأهرام الكندية
AHRAM CANADIAN UNIVERSITY
Faculty of Computer Science and Information Technology

Online Flowers Store

Phase 1: Software Engineering Project

Submitted To

Dr. Reham Adel

TA. Mai Mohammed

Submitted By

Student ID	Student Name	Section Number
42110142	Rawan Elsayed	A3
42110089	Salma Abdrabo	A3
42210367	Alaa Hussein	A3
42110028	Yasmin Hassan	A3
42110428	Nermeen Kamal	A3
42110205	Nour Aleman Khaled	A3
42110367	Login Abdallah	A2
42110247	Menatallah Sayed	A3

Contact Email: 42110142.rawan@acu.edu.eg

1. Introduction

-This project is a website for a store that sells flowers and plants. It includes the products available, information about them, user can book online order and give feedback.

-It is also possible for the store owner to control the products and their quantity, and to enter and modify information. This project facilitates communication between the customer and the store and provides the customer's needs in an easy way, thus increasing sales for the store.

1.1 Purpose

-The goal of the project is to connect the user to the online store, which makes it easier to user to book an order online without go to any store, it makes it easier for manager to add, modify, delete products and confirm orders.

Scope

- User can book an order, cancel order , update order, show receipt , sign up ,login ,give feedback, reset password
- Manger can add product, delete product ,modify product(price , quantity..) , make receipts & discounts.

1.2 * Definitions, acronyms, and abbreviations

2. Requirements

Functional Requirements

2.1 Sign up

Code	Requirements statement	Must/should	Comments
FR001	New user can make account by enter name, password , email .	Must	Password should be greater than specific length and has upper and lower case, numbers and punctuation marks.

2.2 Login

Code	Requirements statement	Must/should	Comments
FR002	The user who has already account can enter to system by name ,password.	Must	All data entered by user have to be correct . If there any wrong in entered data error

			message will appear .

2.3 Booking an order

Code	Requirements statement	Must/should	Comments
FR003	The user has the right to book orders and choose quantity.	Must	User enter his phone number.
FR004	The price would be shown while he chooses the products.	Must	
FR005	user can choose from options.	Must	

2.4 give Feedback

Code	Requirements statement	Must/should	Comments
FR006	The user can write his Comment.	Must	
FR007	The user can give his rating.	Must	

2.5 show Feedback

Code	Requirements statement	Must/should	Comments
FR008	Manager can show user feedback	Must	

2.6 Make Receipt

code	Requirements statement	Must/Should	Comment
FR009	Create a page to give the user details about the purchase process.	Must	Details like(price after discount, number of elements).

2.7 modify products

code	Requirements statement	Must/Should	Comment
FR010	The manager responsible for the products has the opportunity to modify the display of the products and details about them	Must	Details like (price, quantity, etc..)
FR011	Product modified when order managed only quantity will be reduced .	Must	

2.8 Manage orders

code	Requirements statement	Must/Should	Comment
FR012	The order manager shows the customer orders to be prepared.	Must	
FR013	The manager contacts the customer to inform him of the details of receiving the order.	Must	

2.9 Make Discount percentage

code	Requirements statement	Must/Should	Comment
FR014	Calculate the total price for all elements.	Must	

FR015	Add the discount percentage and get the final price.	Must	The discount percentage will be identified by the manager.
FR016	Add the final price to the receipt.	Must	

2.10 Reset password

Code	Requirements statement	Must/should	Comments
FR017	User can reset password in case he forget his password	Must	

2.11 cancel order

Code	Requirements statement	Must/should	Comments
FR018	User can cancel order.	Must	

2.12 update order

Code	Requirements statement	Must/should	Comments
FR019	User can update his order by changing quantity.	Must	

2.13 Add product

Code	Requirements statement	Must/should	Comments
FR020	Manager can add new product by define its name , price, quantity .	Must	

2.14 delete product

Code	Requirements statement	Must/should	Comments
FR021	Manager can delete product .	Must	

3 Non Functional Requirements

3.1 Accessibility

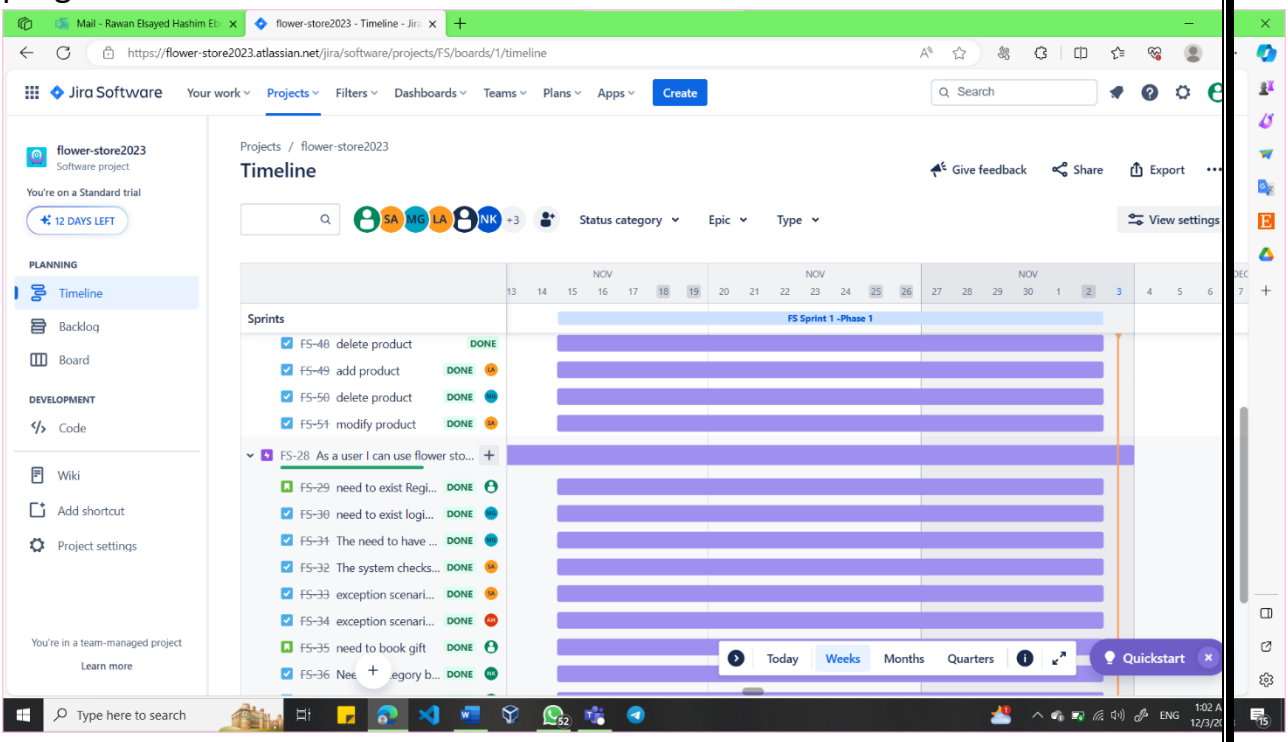
Code	Requirements statement	Must/should	Comments	Unit
NFR001	The system shall be accessible to people with disabilities in accordance with the Americans with Disabilities Act of 1990. The system shall be accessible by people who are color blind, to the extent that they shall be able to discern all text and other information displayed by the system as	Must	None	Use appropriate colors for all parties to ensure easy access, In addition to providing each product with sufficient information to the customer.

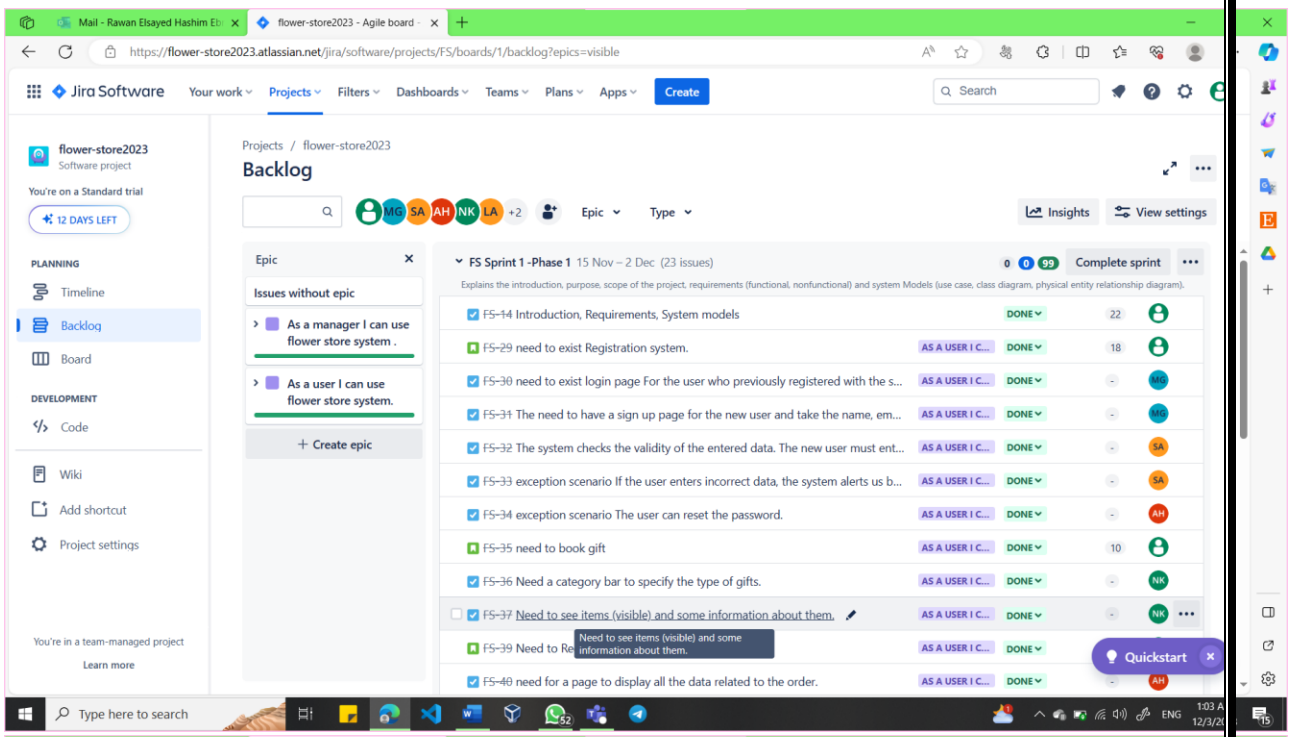
	easily as a person without color blindness			

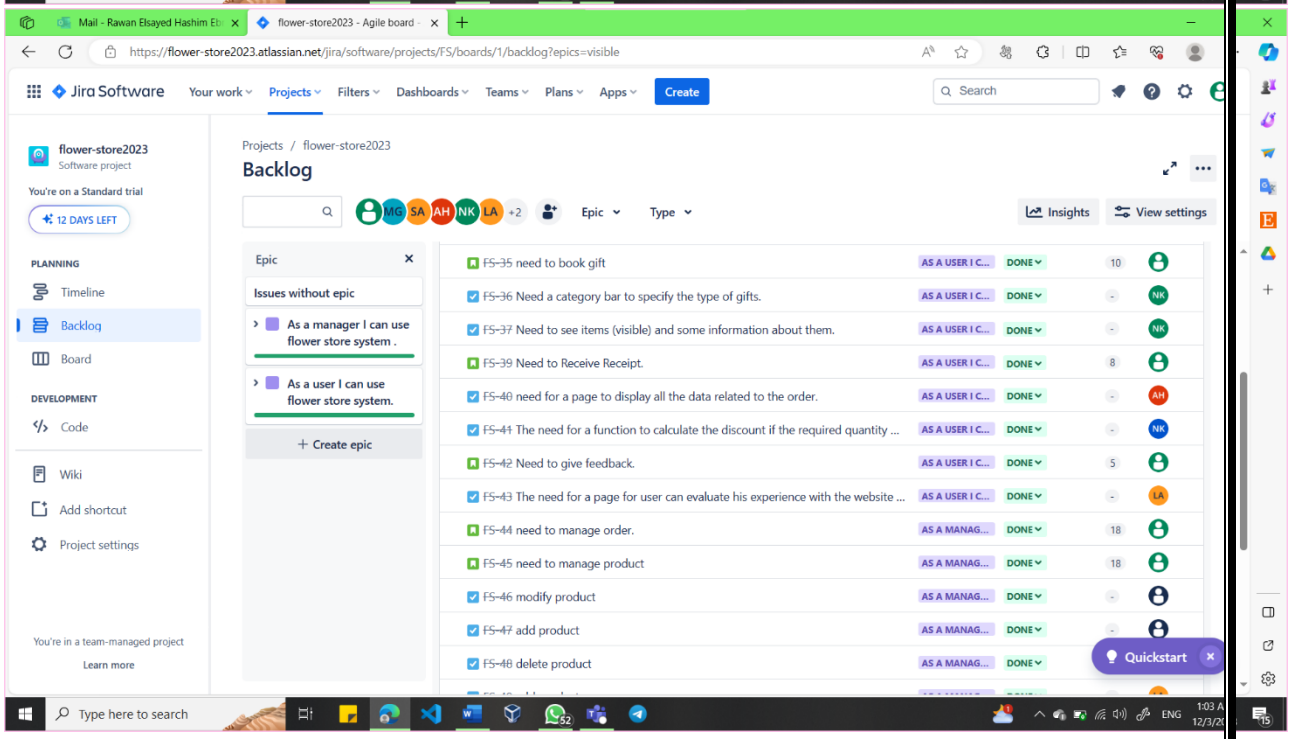
3.2 Usability

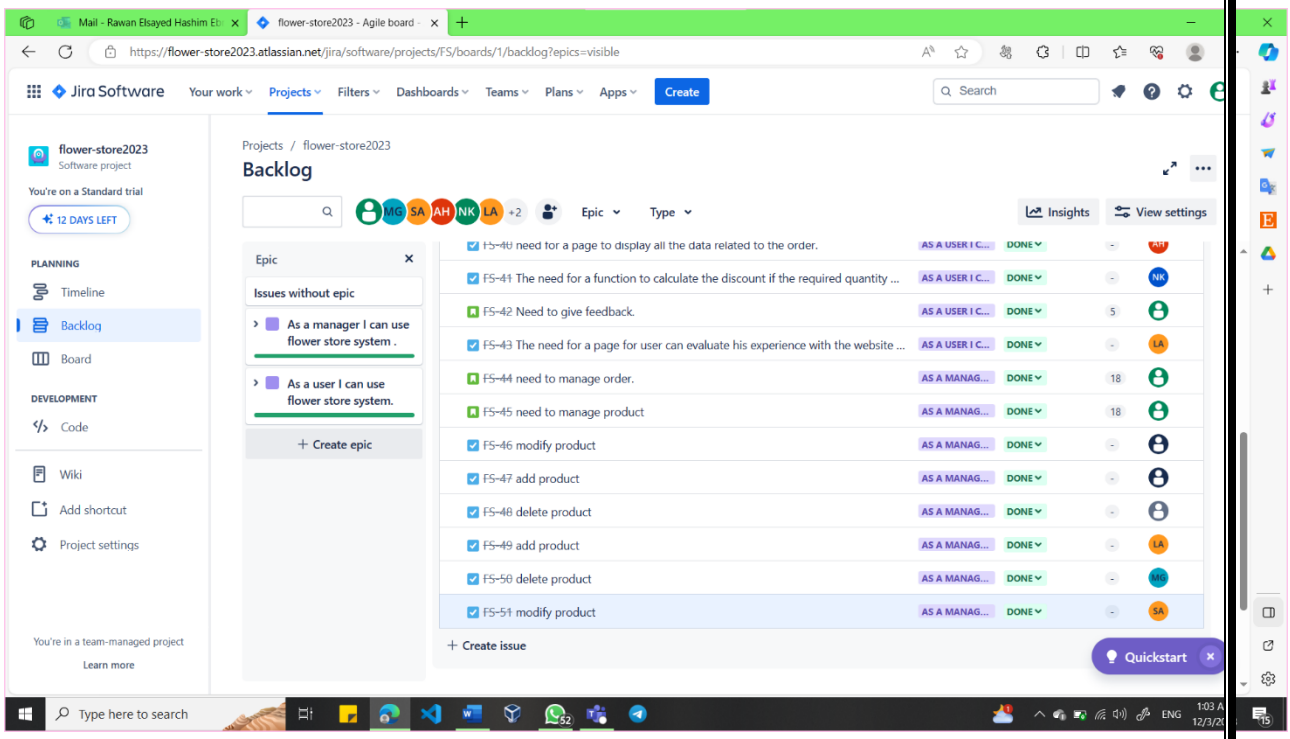
Code	Requirements statement	Must/should	Comments	Unit
NFR002	This includes requirements related to the ease of use and understandability of the system for the end-users.	Must	None	The average user does not require a level of intelligence or previous knowledge to use the website. All the tools demonstrate their intuitive function. Use ui/ux principle(use icons) Mobile friendly (responsive website)

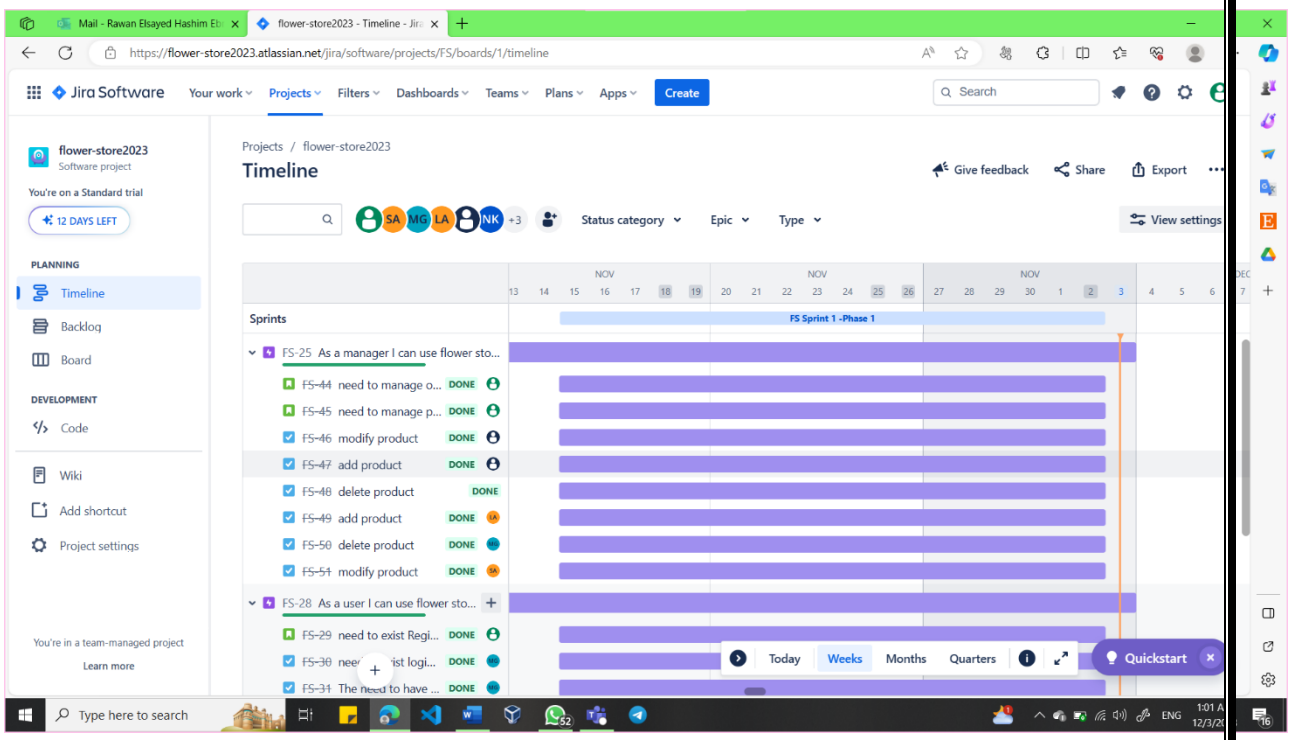
4 Used Technologies

- **Jira**: Is a website to make a board, put all tasks on it and assign each task to each member. We used it to manage our project and tasks upon the team members by organizing the tasks, creating sprints, and keeping track of our progress.
- 


Jira Software
Your work
Projects
Filters
Dashboards
Teams
Plans
Apps
Create
Search
flower-store2023
Software project
You're on a Standard trial
12 DAYS LEFT
PLANNING
Timeline
Backlog
Board
DEVELOPMENT
Code
Wiki
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / flower-store2023
Backlog
Epic
Type
Insights
View settings
Issues without epic
As a manager I can use flower store system .
As a user I can use flower store system.
Create epic
FS Sprint 1 -Phase 1 15 Nov – 2 Dec (23 issues)
Complete sprint
Explains the introduction, purpose, scope of the project, requirements (functional, nonfunctional) and system Models (use case, class diagram, physical entity relationship diagram).
FS-14 Introduction, Requirements, System models
FS-29 need to exist Registration system.
FS-30 need to exist login page For the user who previously registered with the s...
FS-31 The need to have a sign up page for the new user and take the name, em...
FS-32 The system checks the validity of the entered data. The new user must ent...
FS-33 exception scenario If the user enters incorrect data, the system alerts us b...
FS-34 exception scenario The user can reset the password.
FS-35 need to book gift
FS-36 Need a category bar to specify the type of gifts.
FS-37 Need to see items (visible) and some information about them.
FS-39 Need to Re
FS-40 need for a page to display all the data related to the order.
Need to see items (visible) and some information about them.
Quickstart
Type here to search


Jira Software
Your work
Projects
Filters
Dashboards
Teams
Plans
Apps
Create
Search
flower-store2023
Software project
You're on a Standard trial
12 DAYS LEFT
PLANNING
Timeline
Backlog
Board
DEVELOPMENT
Code
Wiki
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / flower-store2023
Backlog
Epic
Type
Insights
View settings
Issues without epic
As a manager I can use flower store system .
As a user I can use flower store system.
Create epic
FS-35 need to book gift
FS-36 Need a category bar to specify the type of gifts.
FS-37 Need to see items (visible) and some information about them.
FS-39 Need to Receive Receipt.
FS-40 need for a page to display all the data related to the order.
FS-41 The need for a function to calculate the discount if the required quantity ...
FS-42 Need to give feedback.
FS-43 The need for a page for user can evaluate his experience with the website ...
FS-44 need to manage order.
FS-45 need to manage product
FS-46 modify product
FS-47 add product
FS-48 delete product
Quickstart
Type here to search


Mail - Rawan Elsayed Hashim Eb
flower-store2023 - Agile board
https://flower-store2023.atlassian.net/jira/software/projects/FS/boards/1/backlog?epics=visible
Jira Software
Your work
Projects
Filters
Dashboards
Teams
Plans
Apps
Create
Search
flower-store2023
Software project
You're on a Standard trial
12 DAYS LEFT
PLANNING
Timeline
Backlog
Board
DEVELOPMENT
Code
Wiki
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / flower-store2023
Backlog
Epic
Type
Insights
View settings
Epic
Issues without epic
As a manager I can use flower store system .
As a user I can use flower store system.
Create epic
FS-40 need for a page to display all the data related to the order.
FS-41 The need for a function to calculate the discount if the required quantity ...
FS-42 Need to give feedback.
FS-43 The need for a page for user can evaluate his experience with the website ...
FS-44 need to manage order.
FS-45 need to manage product
FS-46 modify product
FS-47 add product
FS-48 delete product
FS-49 add product
FS-50 delete product
FS-51 modify product
Create issue
Quickstart
Type here to search


Mail - Rawan Elsayed Hashim Eb
flower-store2023 - Timeline - Jira
https://flower-store2023.atlassian.net/jira/software/projects/FS/boards/1/timeline
Jira Software
Your work
Projects
Filters
Dashboards
Teams
Plans
Apps
Create
Search
flower-store2023
Software project
You're on a Standard trial
12 DAYS LEFT
PLANNING
Timeline
Backlog
Board
DEVELOPMENT
Code
Wiki
Add shortcut
Project settings
You're in a team-managed project
Learn more
Projects / flower-store2023
Timeline
Give feedback
Share
Export
Status category
Epic
Type
View settings
NOV
Sprints
FS Sprint 1 -Phase 1
FS-25 As a manager I can use flower sto...
FS-44 need to manage o... DONE
FS-45 need to manage p... DONE
FS-46 modify product DONE
FS-47 add product DONE
FS-48 delete product DONE
FS-49 add product DONE
FS-50 delete product DONE
FS-51 modify product DONE
FS-28 As a user I can use flower sto...
FS-29 need to exist Regi... DONE
FS-30 nee ist logi... DONE
FS-31 The need to have ... DONE
Today
Weeks
Months
Quarters
Quickstart
Type here to search

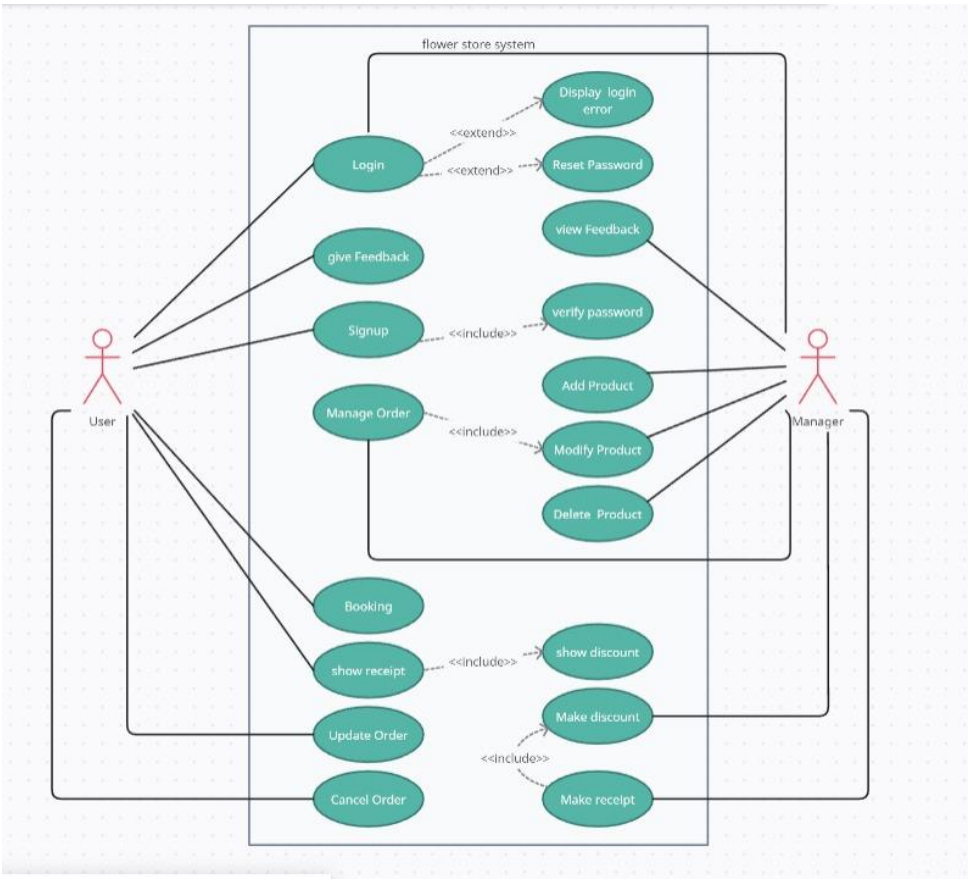
- **GitHub repository link**: This repository is made to make it easy for our team to communicate with each other. Every member will upload his copy of code with his modification to the code, so every member will always know the updates. This repository will help avoiding and reducing the reasons of errors.
  https://github.com/ahram-canadien-university/Flower-store2023

- **Frontend technology:** Web Application html, CSS, JavaScript

- **Backend technology:** Python, FastAPI (framework) , my SQL

5 System Models

5.1 Use Case Model



- **Use Case Description Tables**

Use Case Number:	1	
Use Case Name:	Login.	
Actors:	User, manager .	
Overview:		
Related use cases:	Verify password, display login error, reset password.	
Event(Stimulus):	**User Action**	**System Action**
	1- User Enter Name and Password.	System Verify user data.
		System record user information.
		System allow user to make orders.
Exceptions:	When user forget password can reset password. When a user enter wrong data system display error message.	
Comments:		

Use Case Number:	2
Use Case Name:	Booking
Actors:	user
Overview:	User can book orders

Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- User select product . 2- User Enter quantity of product and all required data.	System record order information.
Exceptions:		
Comments:		

Use Case Number:	3	
Use Case Name:	give feedback	
Actors:	user	
Overview:		
Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- user give feedback by rate his experience or write a comment.	System record user rate and comment.

Exceptions:		
Comments:		

Use Case Number:	4	
Use Case Name:	view feedback	
Actors:	manager	
Overview:		
Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- manager can view user feedback.	System represent user feedback.
Exceptions:		

Use Case Number:	5
Use Case Name:	Make receipt
Actors:	Manager.

Overview:		
Related use cases:	Make discount	
Event(Stimulus):	**User Action**	**System Action**
	1- user click submit after Select the desired quantity.	The system creates a receipt include all information about user order.
Exceptions:		
Comments:		

Use Case Number:	6	
Use Case Name:	Make discount	
Actors:	manager	
Overview:		
Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- manager make receipt	System calculates discount percentage and show it.

Exceptions:		

Use Case Number:	7	
Use Case Name:	Show receipt	
Actors:	user	
Overview:		
Related use cases:	Show discount	
Event(Stimulus):	**User Action**	**System Action**
	1- user press submit button .	System represent receipt
Exceptions:		
Comments:		

Use Case Number:	8	
Use Case Name:	Update order	
Actors:	User	
Overview:		
Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- user want update order	System allow user to update data of order.
		Update new data on database
Exceptions:		
Comments:		

Use Case Number:	9	
Use Case Name:	Cancel order	
Actors:	user	
Overview:		
Related use cases:		
Event(Stimulus):	**User Action**	**System Action**

	1- user want to cancel order	System remove order from database.
Exceptions:		
Comments:		

Use Case Number:	10	
Use Case Name:	Manage order	
Actors:	manager	
Overview:		
Related use cases:	Modify product	
Event(Stimulus):	**User Action**	**System Action**
	1- manager want to change product data .	System update all changes on database.
Exceptions:		
Comments:		

Use Case Number:	11	
Use Case Name:	Add product	
Actors:	Manager	
Overview:		
Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- manager add new product	System add new product with its data on database.
Exceptions:		
Comments:		

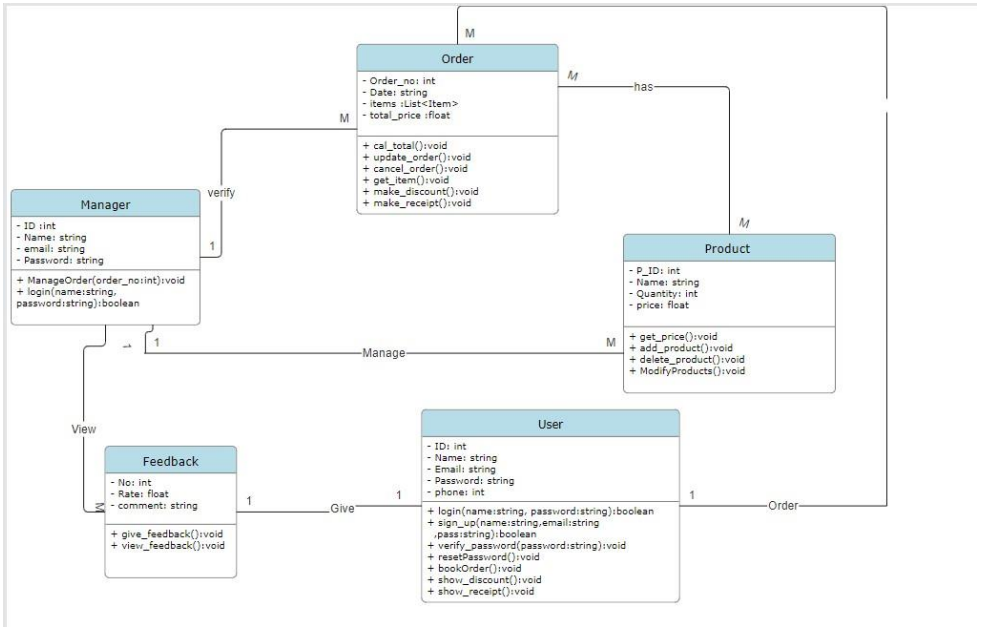
Use Case Number:	12
Use Case Name:	Delet product
Actors:	manager
Overview:	

Related use cases:		
Event(Stimulus):	**User Action**	**System Action**
	1- manager want delete product	System delete from data base
Exceptions:		
Comments:		

Use Case Number:	13	
Use Case Name:	Sign up	
Actors:	User	
Overview:		
Related use cases:	Verify password	
Event(Stimulus):	**User Action**	**System Action**
	1- new user create new account.	Verify input user data like password .
		Add new user data on database .
Exceptions:		

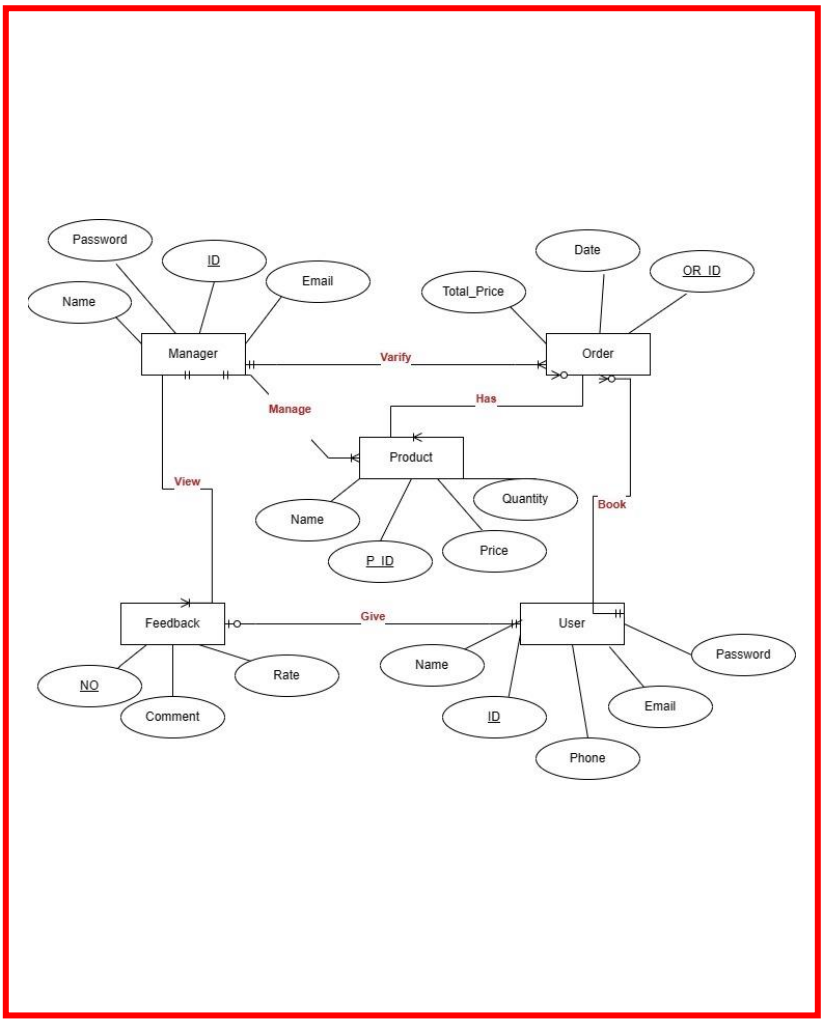
Comments:	

4.2 Class diagrams

- 

Class ID	Class Name	Description
1	Order	manages essential information for customer orders. It includes attributes such as order number, customer ID, date, delivery details, items, total amount , payment method.. calculate the total, add and remove items, and retrieve customer and item details..
2	Product	represents items for sale with attributes such as p_Id, Name, Quantity, and Price. retrieve price and description, get the current quantity, and update both price and quantity. This for efficient management and access to essential product information.
3	Manager	handles managerial roles with attributes like Name, Email, and Password. It facilitates order confirmation, product modification, and the addition of offers
4	Feedback	captures feedback details, including a unique identifier (No) and a rating (Rate). It offers methods like "give_rate()" to provide a rating and "give_feedback()" to input additional feedback. This class for collecting and managing user feedback within the system.
5	User	add customer information with attributes such as ID, Name, Email, Password, and phone. It includes methods for customer actions, such as logging in, creating an account, resetting the password, and booking orders.

4.4 Physical Entity-Relationship Diagram



جامعة الأهرام الكندية
AHRAM CANADIAN UNIVERSITY
Faculty of Computer Science and Information Technology

Ownership Report

Student ID	Student Name	What the student done
42110142	Rawan Elsayed	*Introduction, ERD, Use Case, Login, Sign up.*
42110089	Salma Abdrabo	*Purpose, ERD, Use Case, Discount*
42210367	Alaa Hussein	*Reset password, Update order, Class Diagram*
42110028	Yasmin Hassan	*Scope, Class Diagram, Percentage*
42110428	Nermeen Kamal	*Book order, Cancel order, ERD, Show feedback*
42110205	Nour Aleman Khaled	*make receipt, Manage order, Class Diagram*
42110367	Login Abdallah	*Class Diagram, Add Product, Delete Product, Receive feedback*
42110247	Menatallah Sayed	*Use Case, Useability, Accessibility, Modify product*