

# Automated Canteen System

---

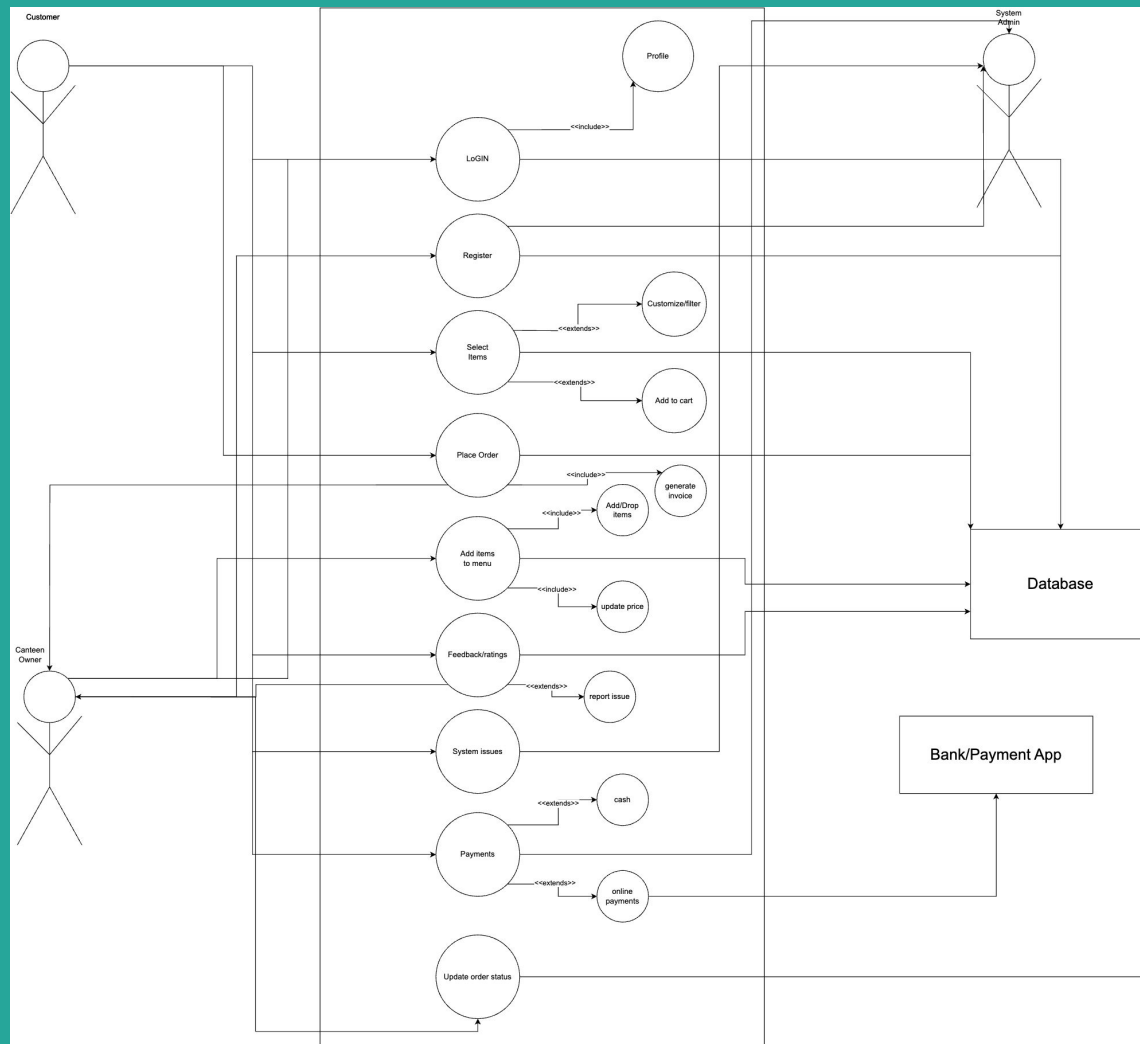
By Group 29

# Contents

- Use Case Diagram
- Use Case Documentation
- Concept map
- Activity Diagram
- Sequence Diagram
- Class Diagram
- User Stories
- Contribution

# Use Case Diagram





# Use Case Documentation



## Use Case ID: UC001

Scope: Website Registration

Primary Actor: New User

Stakeholders and Interests:

- New User: Wants to register on the website to access its features.
- System: Manages user registration and account creation.

Preconditions:

- The user is on the website's registration page.
- The website is accessible and operational.

Postconditions:

- Upon successful registration, the user is redirected to the sign-in page.
- If registration fails, appropriate error messages are displayed to the user.

Main Success Scenario:

1. The user enters registration information:
  - Email address
  - Password
  - Confirm Password
2. The system validates the user's input:
  - Ensures that the email address is in the correct format.
  - Checks if the email address is not already associated with an existing account.
  - Verifies that the password length is at least 6 characters.
  - Ensures that the password contains both alphanumeric characters and symbols.
3. If any validation fails, the system displays an error message and returns to step 1.
4. If all validation passes, the system creates a new user account using the provided email and password.
5. The system redirects the user to the sign-in page.

Extensions (Failure Scenarios):

1. Incorrect Email Format:
  - The system detects that the email format is incorrect.
  - The system displays an error message indicating the incorrect email format.
  - Return to step 1 of the Main Success Scenario.
2. Existing Account Detected:
  - The system identifies that the provided email is already associated with an existing account.

- The system displays an error message indicating that an account with that email already exists.

- Return to step 1 of the Main Success Scenario.

3. Password Length not Satisfied:

- The system finds that the provided password is less than 6 characters.
- The system displays an error message indicating that the password length is insufficient.
- Return to step 1 of the Main Success Scenario.

4. Password not Alphanumeric or Symbol:

- The system determines that the password does not meet the required conditions (e.g., lacks alphanumeric characters or symbols).
- The system displays an error message specifying the password requirements.
- Return to step 1 of the Main Success Scenario.

5. Server Error (Technical Issue):

- A technical issue occurs on the server-side.
- The system displays an error message indicating a server error.
- The user is prompted to try the registration process again later.

Special Requirements:

- The system must securely store user registration information, including the password (encrypted).

Assumptions:

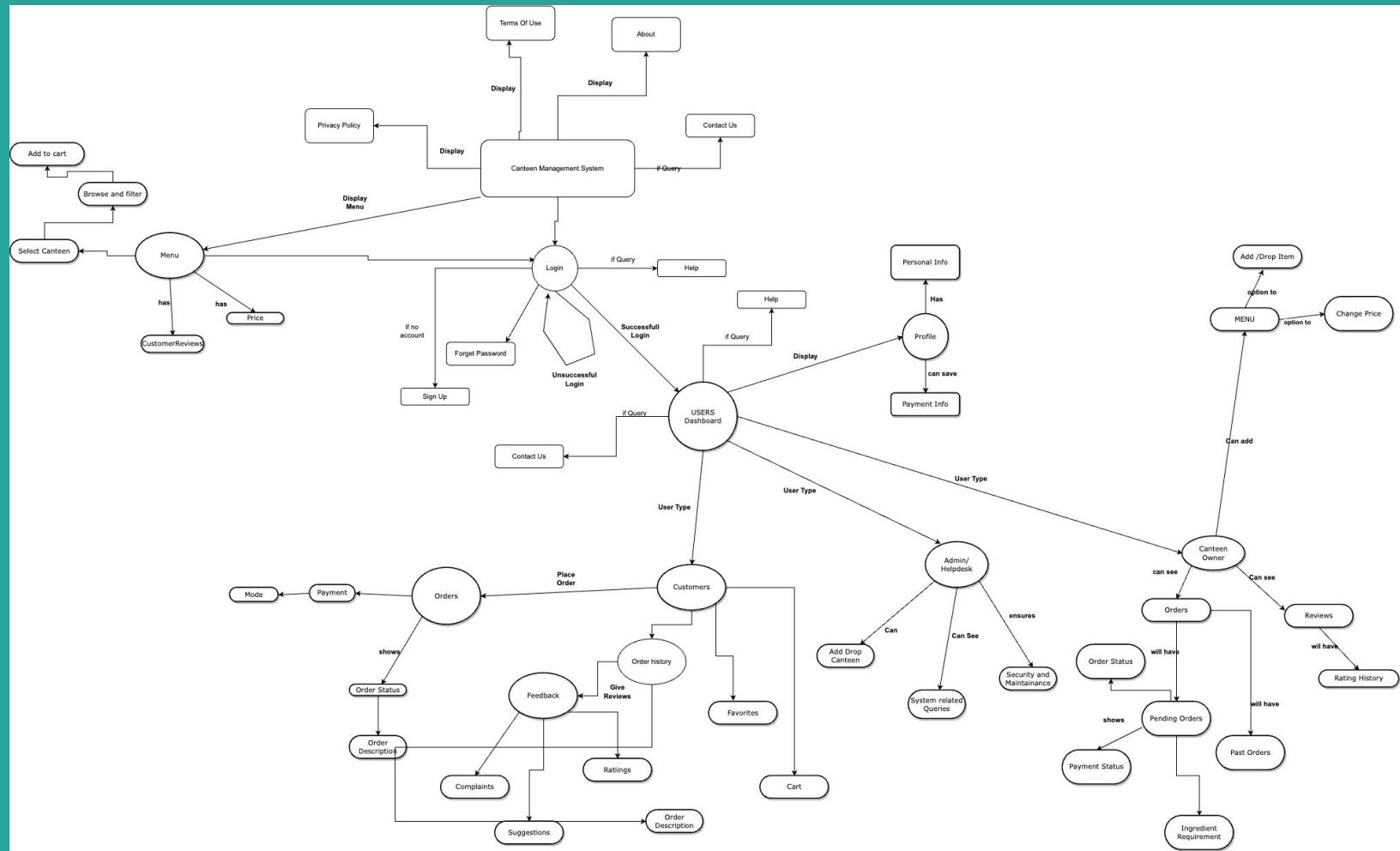
- The user has access to a web browser and an internet connection.
- The website's registration page is accessible and functional.
- The user provides accurate and valid information during registration.

Notes:

- The use case includes error handling for common registration failures to provide a user-friendly experience.
- The system should implement appropriate security measures to protect user data.

# Concept Map

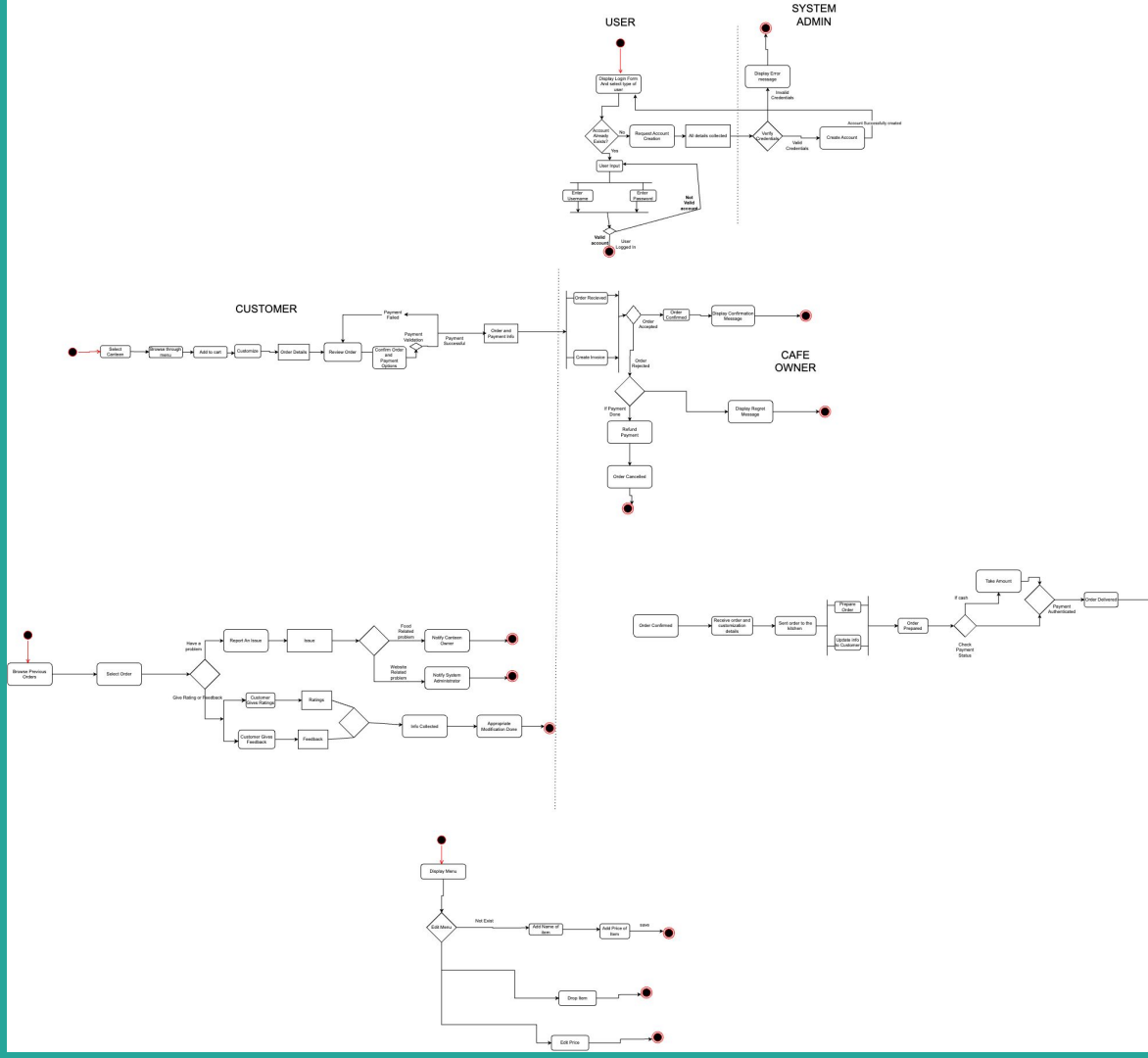
—





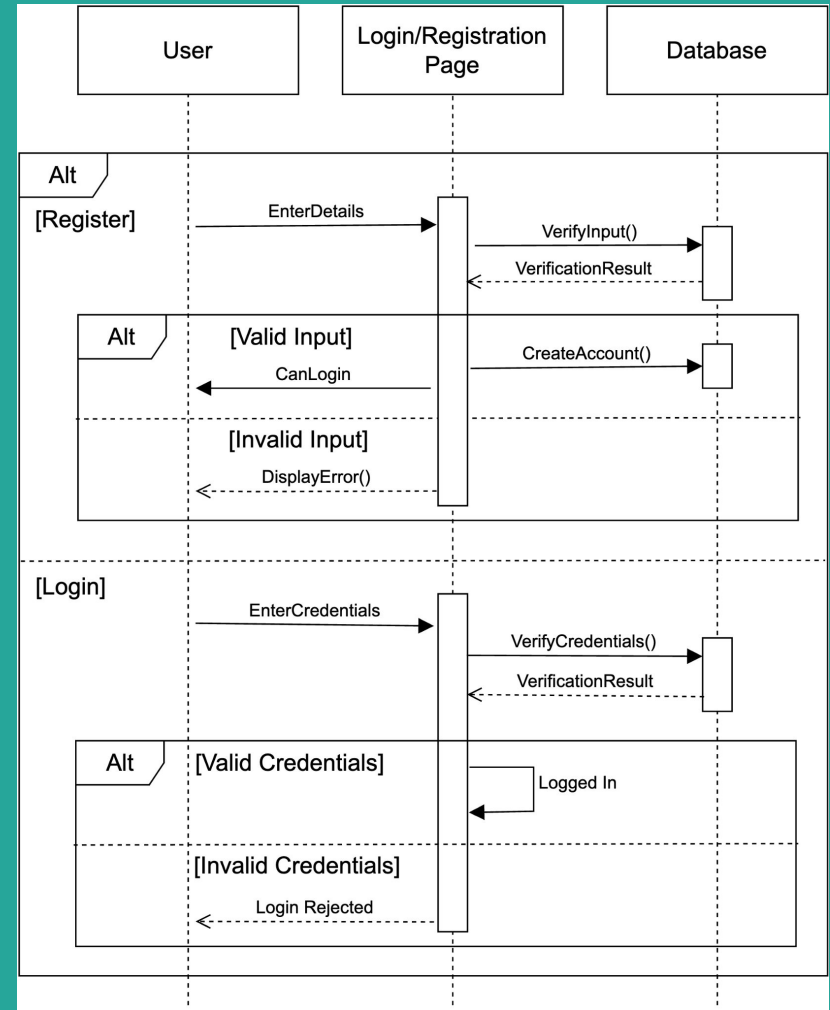
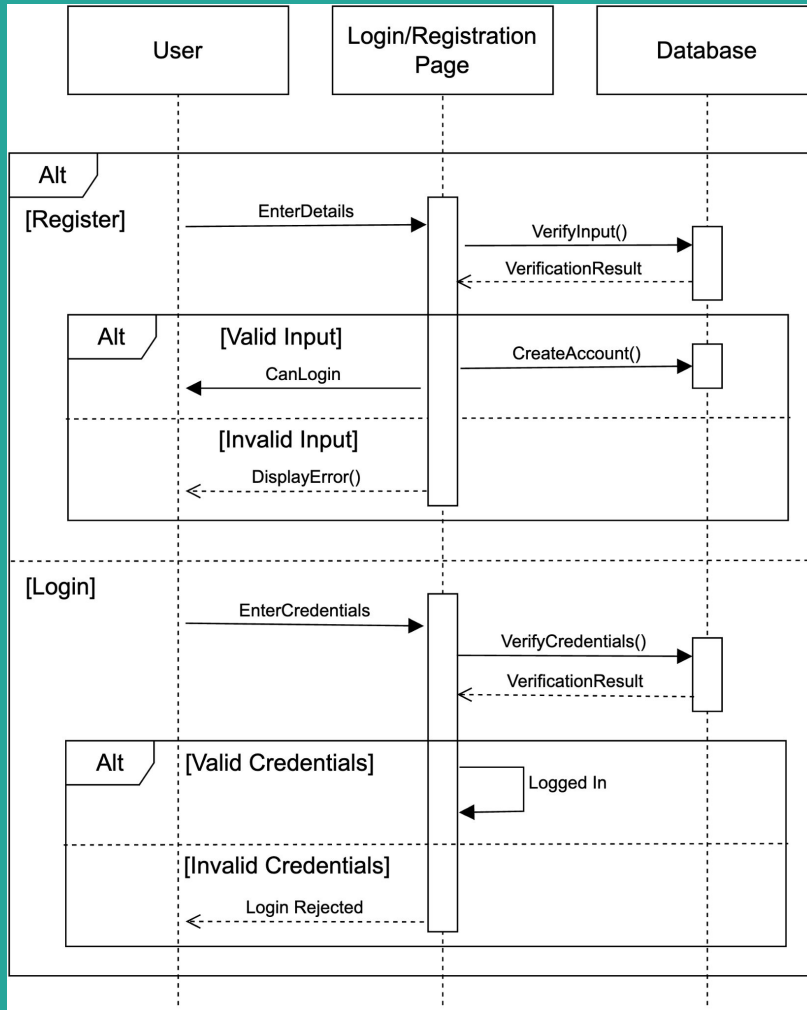
# Activity Diagram

—



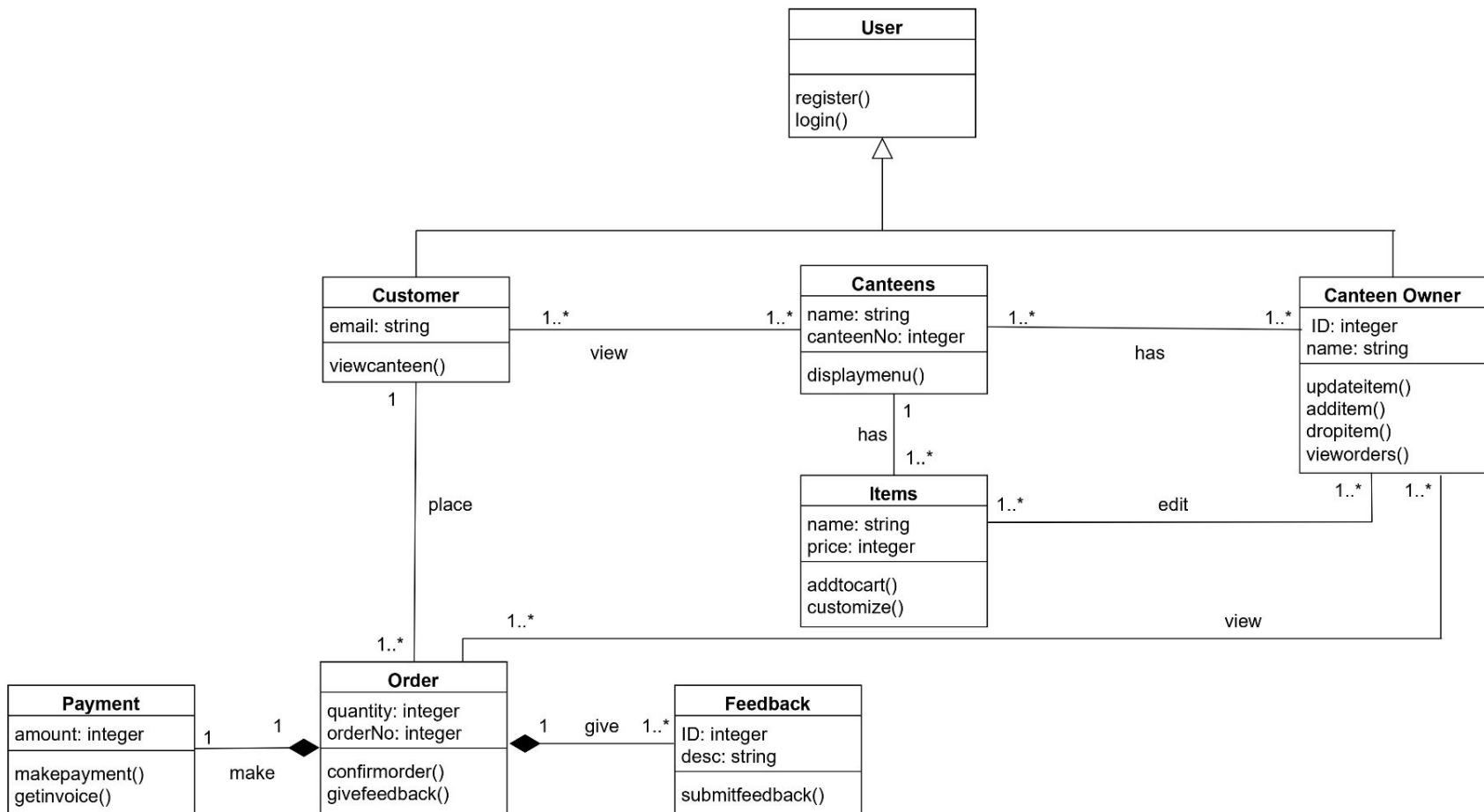
# Sequence Diagram

—



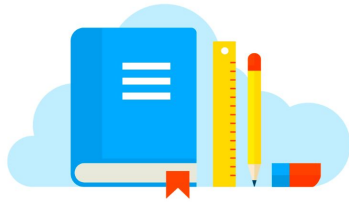
# Class Diagram

—



# User Stories





## Lab: 3 :: User Stories

Course: IT314

Lab Group: 29

Date: 24/09/2023

1)

### Front view:

As a new user, I should be able to register for myself, so that I can sign in and access the website.

### Back view:

-> Upon successful registration user will be redirected to the sign in page.

-> Failures:

- > incorrect email format
- > already existing account
- > password length (i.e. <6)
- > password condition not satisfied (i.e. alphanumeric, symbol is required)

2

-> server error

2)

### Front view:

As a registered user, I should be able to login so that I can browse through the menu.

### Back view:

-> Upon logging in, the user should be able to access the menu, along with the price from the website's main navigation or designated menu section.

-> Failures in case of not able to log in :

- > Incorrect email
- > Incorrect password
- > Server error

-> Failures in case of server is down for displaying the menu after log in.

3)

### Front view:

As a logged in user, I should be able to customize any items, so that it can best fit my taste.

### Back view:

- > User can only customize the item which is customizable.
- > User can only customize if Canteen owner approves.
- > Prices will be changed accordingly to the customization.



# Contributions

—

**1. Krishna.C:202101459**

- Designed web pages in Figma.
- Created all images for the website.
- Developed social media assets.
- Designed the project logo.
- Set up a Slack channel for team communication.
- Contributed to the class diagram and activity diagram.

**2. Dweej.P:202101432**

- Worked on backend development, including model creation.
- Created a database using SQLite.
- Developed the Django backend.
- Created a Django application.
- Assisted in concept mapping.
- Contributed to user stories and sequence diagrams.

**3. Dhruvil.T:202101462**

- Contributed to use-case documentation.
- Worked on sequence diagrams.
- Contributed to user stories.
- Participated in activity diagram creation.
- Assisted in concept mapping.
- Contributed to the design and theme of the project website.

**4. Vraj.P:202101060**

- Handling frontend code.
- Contributed to the class diagram.
- Contributed to the activity diagram.
- Helped create pages in Figma.

**5. Mihir.G:202101473**

- Handling frontend code.
- Contributed to sequence diagrams.
- Contributed to user stories.
- Finalized the code architecture in the frontend.
- Explored and integrated external libraries.
- Worked on the theme for the frontend.

**6. Yash.K:202101418**

- Contributed to the backend using Django.
- Created backend models.
- Implemented login functionality.
- Contributed to the activity diagram.
- Contributed to the class diagram.

**7. Umang.T:202101471**

- Contributed to the design of the website.
- Worked on wire diagrams for individual pages.
- Contributed to the initial Figma design and core theme of the website.

**8. Jay.D:202101521**

- Contributed to backend Django modeling.
- Made updates to models.py.
- Contributed to user stories, activity diagrams, and concept mapping.

**9. Shrut.K:202101479**

- Finalized the website theme.
- Designed all webpages in Figma.
- Contributed to React development.
- Participated in group labs and diagram creation.

**10. Shrey.K:202101493**

- Worked on sequence diagrams.
- Contributed to user case stories and concept mapping.
- Worked on the design of the login page.
- Contributed to the Figma design of the homepage and core website theme.

**11. Vandan.B:202101404**

- Contributed to backend model creation.
- Developed the database.
- Played a significant role in creating sequence diagrams.

**12. Kalhar.P:202101009**

- Contributed to making sequence diagrams.
- Worked on user case stories and concept mapping.

# Thank You

