

# Automated Canteen System

---

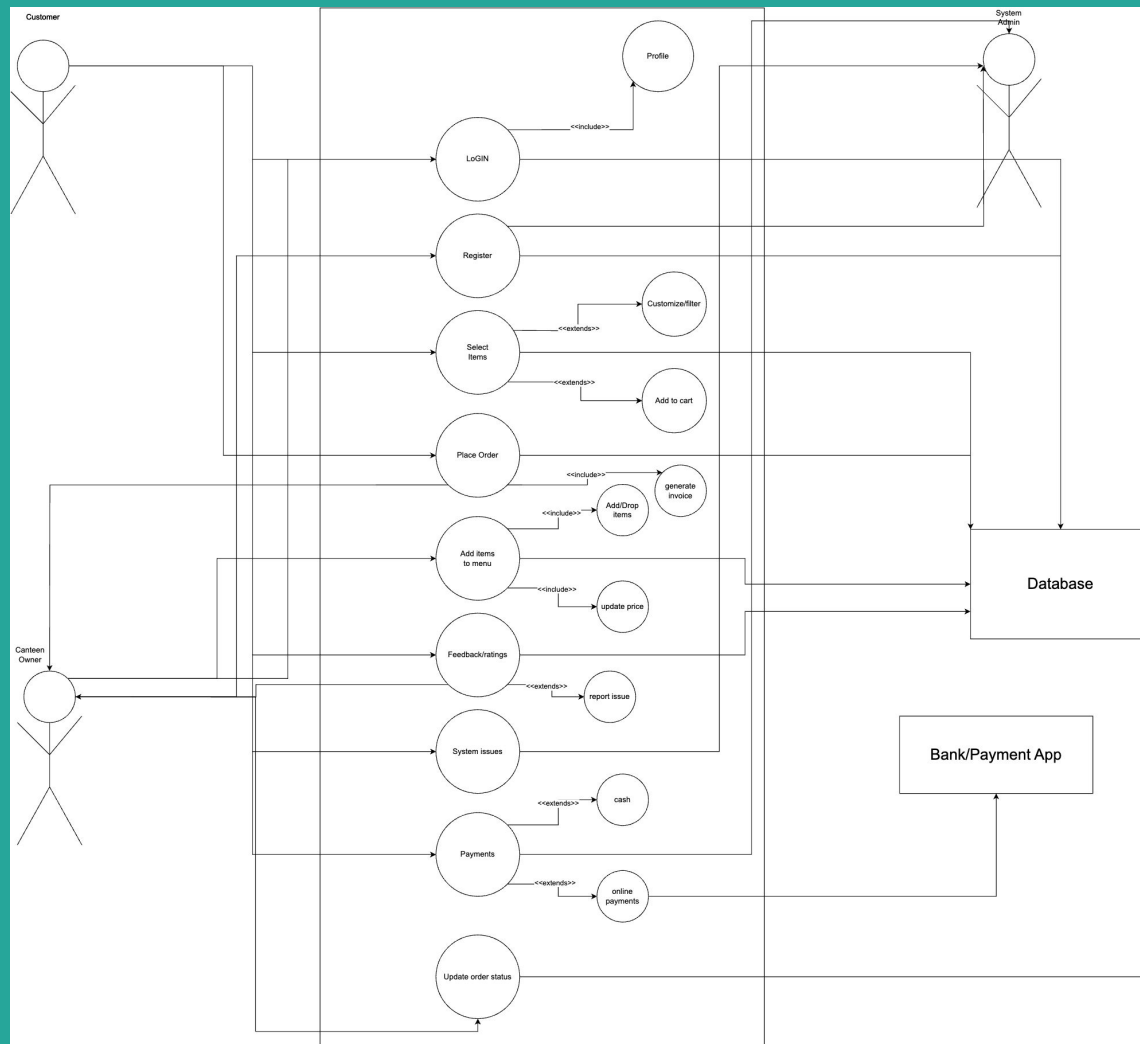
By Group 29

# 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:

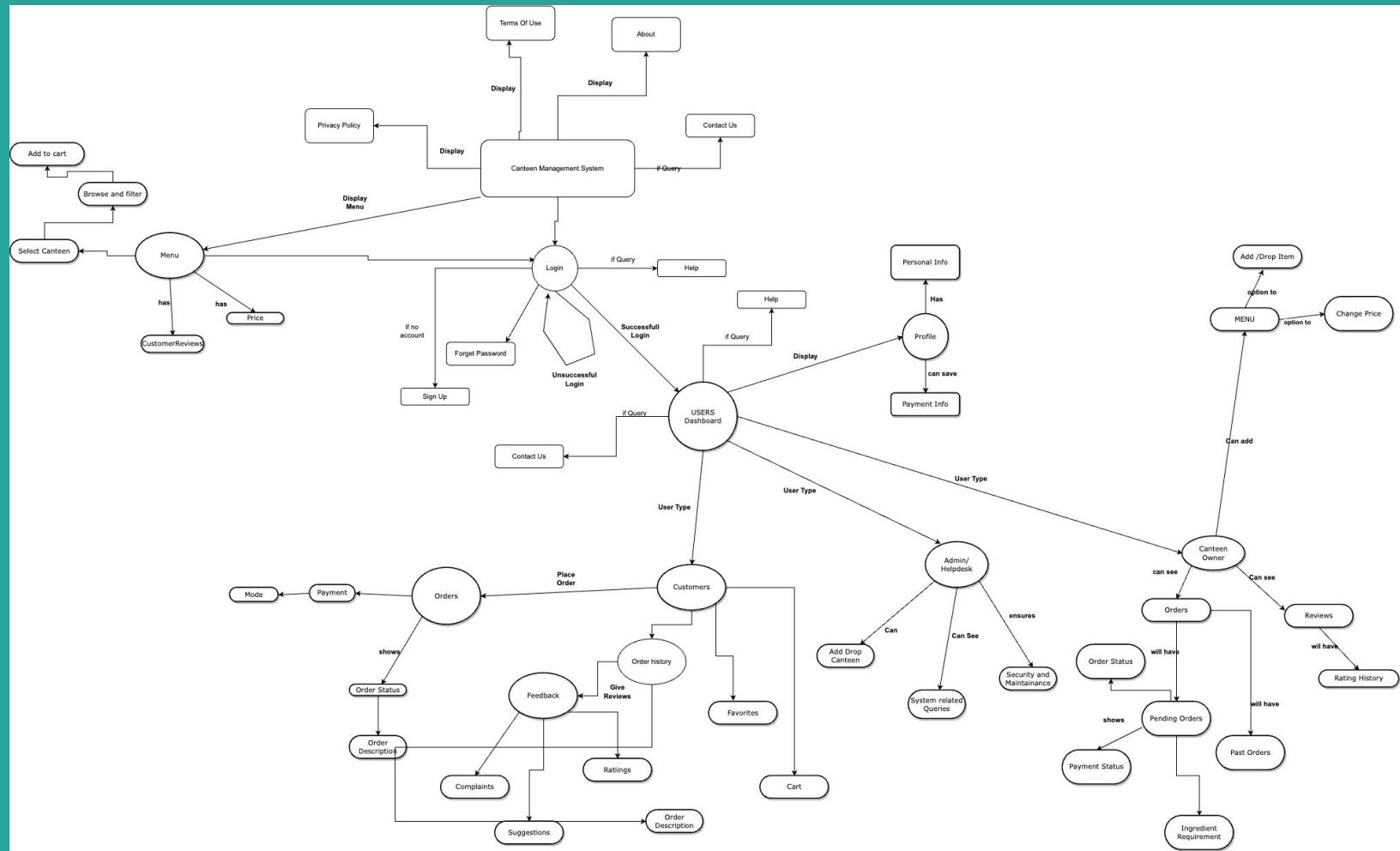
- The user has access to a web browser and an internet connection.
- The website's registration page is accessible and functional.
- The user provides accurate and valid information during registration.

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

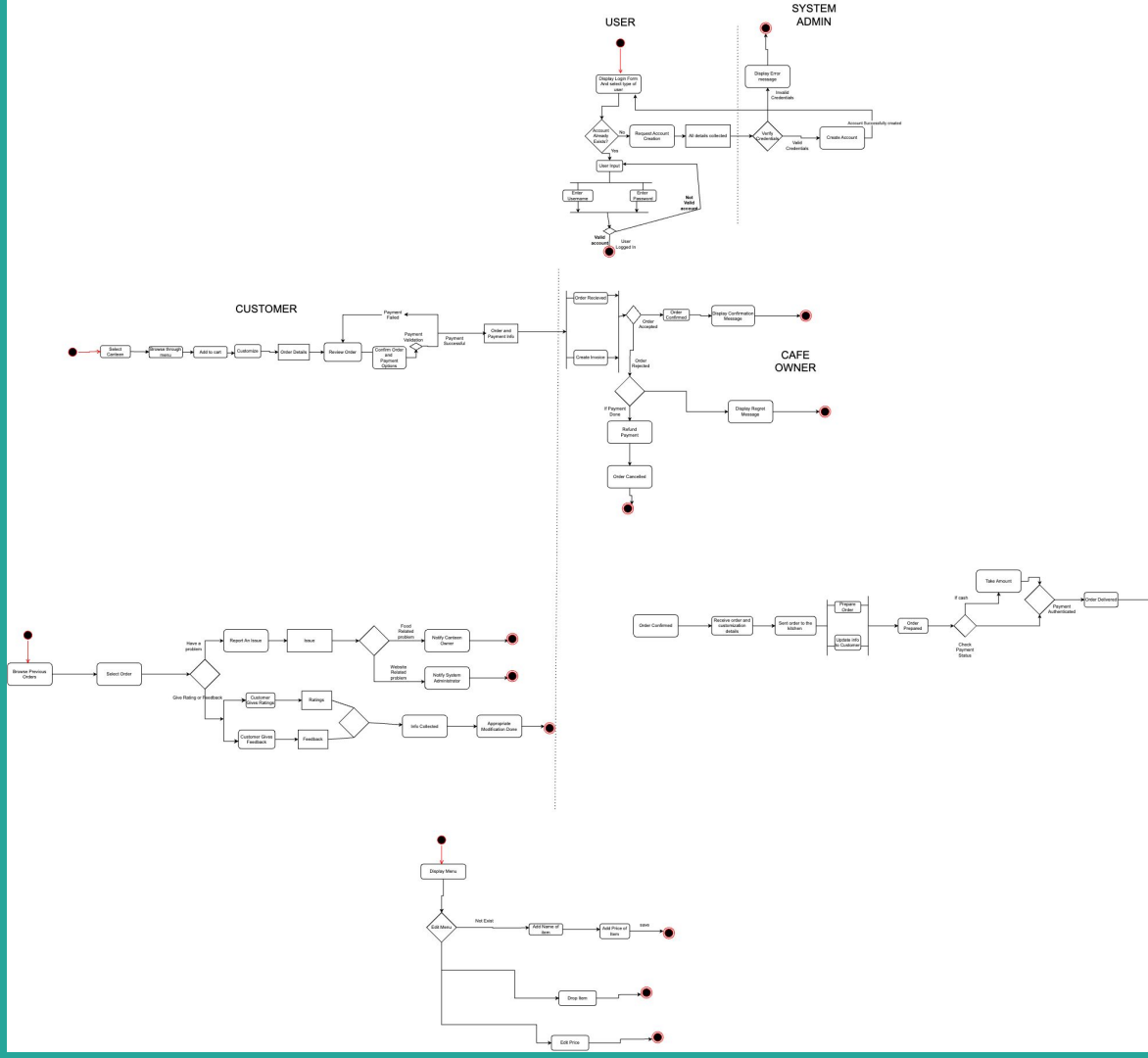
—





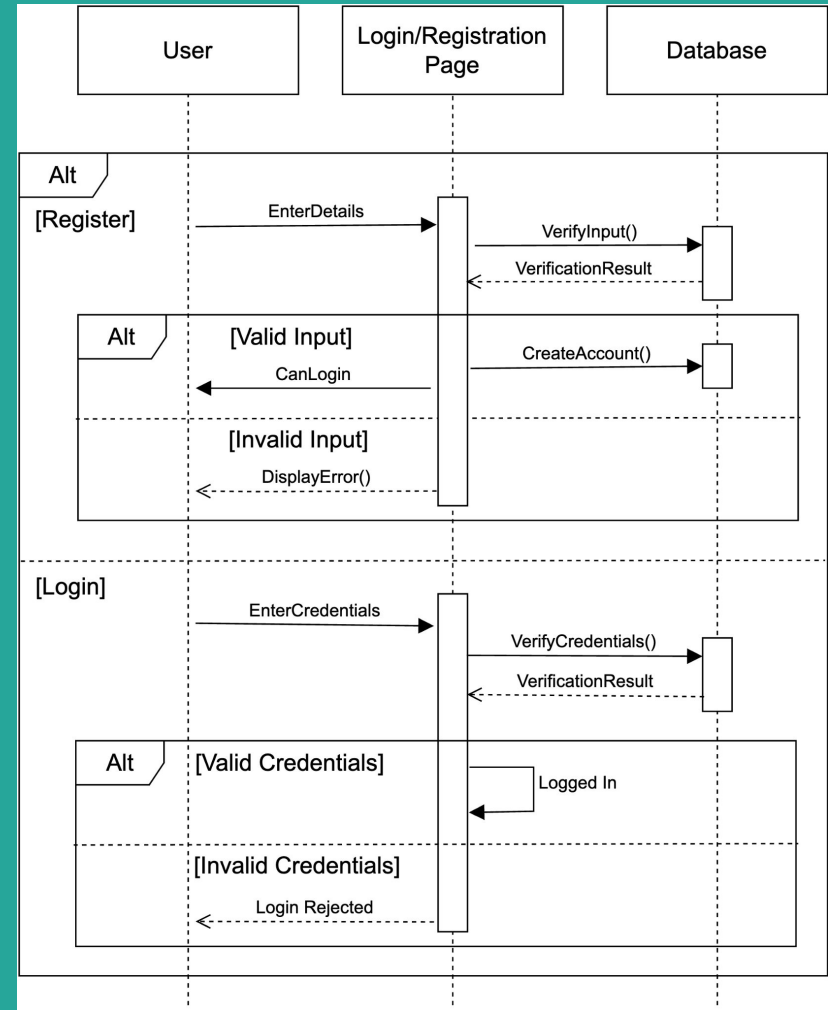
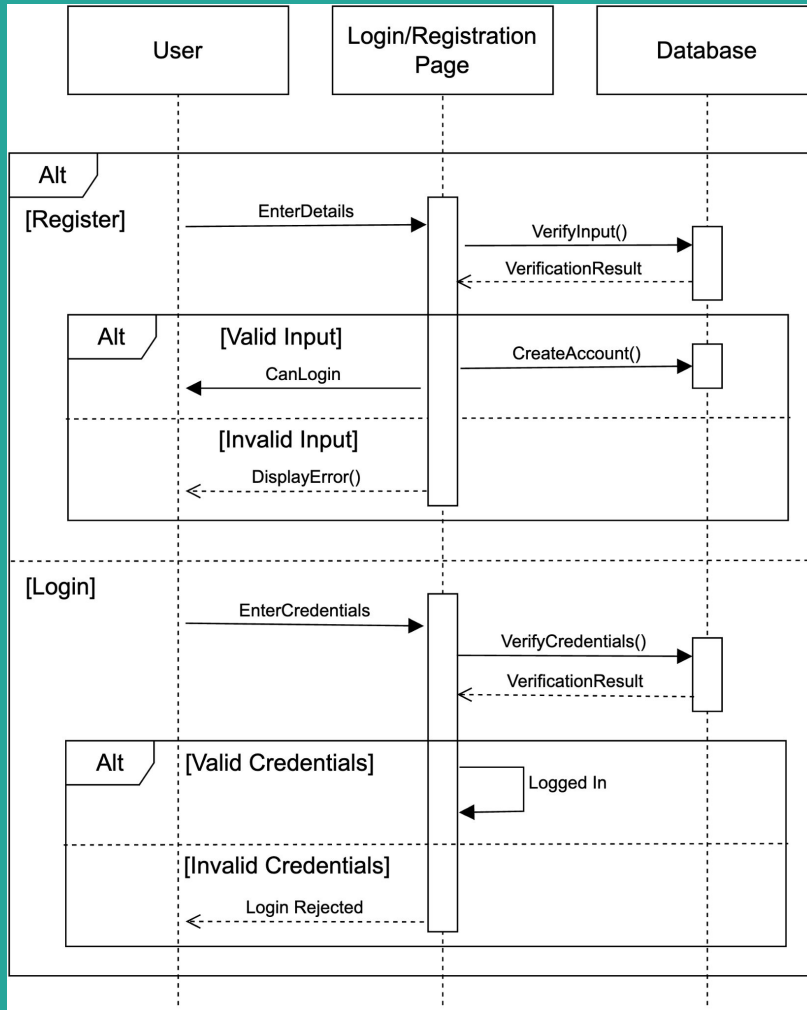
# Activity Diagram

—



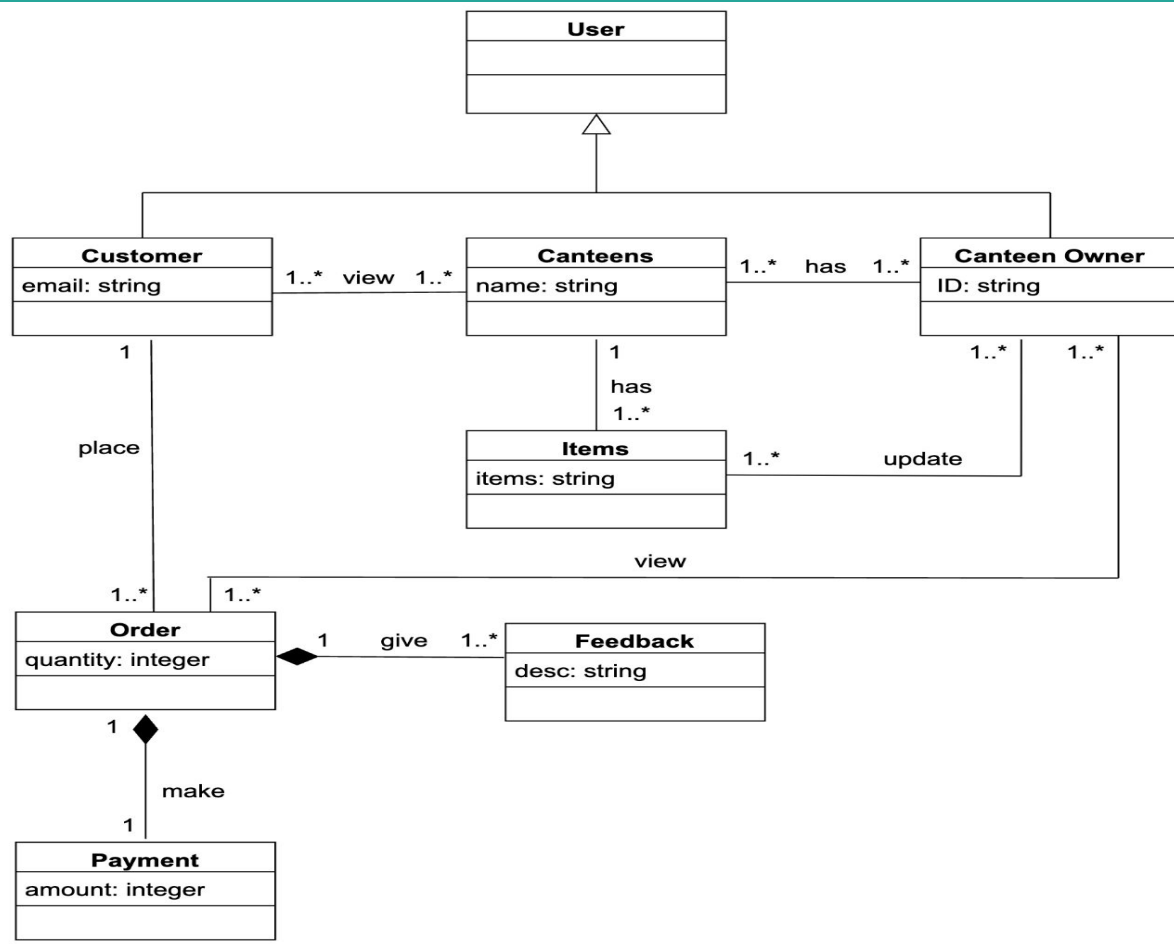
# Sequence Diagram

—



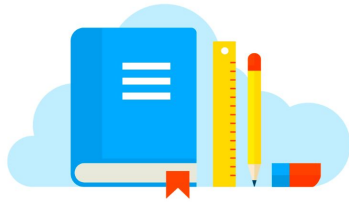
# Class Diagram





# 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

—

- **Krishna.C:**I have designed the web pages in figma and created all the images used in the final website, made the socials for the website, designed the logo, made the slack channel, contributed in class diagram and activity diagram.
- **Dweej.P:**I contributed in backend- models creation, database creation using sqlite, developing django backend and created django application, also aided in concept mapping,user stories and sequence diag.
- **Dhruvil.T:**I contributed in use-case documentation, sequence diagrams, user stories, Activity diagram and concept mapping of the project. I also contributed while designing and theme of the project website.
- **Vraj.P:**I am handling the frontend code. Else I have contributed in Class Diagram and Activity Diagram. Also helped in creating the pages in Figma.
- **Mihir.G:**I am handling frontend code and also contributed in sequence diagrams, user stories of the project. Also finalizing the code architecture, external libraries, and theme in frontend.
- **Yash.K:**I contributed in backend using django, created Models and login functionality in it. Also in Activity Diagram, Class diagram
- **Umang.T:**I contributed to the design of the website and the wire diagram of the individual pages, apart from that I contributed to the initial figma design and core theme of the website.
- **Jay.D:**I have contributed in backend django modeling and have done updation in models.py file and also contributed in User Stories,Activity Diagram and concept mapping.
- **Shrut.K:**I finalized website theme and made designs of all webpages in Figma. Apart from that, I also contributed in React. I also contributed in group labs and in diagrams of group project.
- **Shrey.K:**I have contributed in making of sequence diagram, user case stories and concept mapping. Moreover I have also contributed in login page, home page figma design and contributed in making of core theme of website
- **Vandan.B:**I have contributed in backend model creation, database development and helped significantly in making of sequence diagrams.
- **Kalhar.P:**I have contributed in making sequence diagram and User case stories.

# Thank You

