1a NF

b F

c NF

d F

e X

2a

Actors:

      Employee

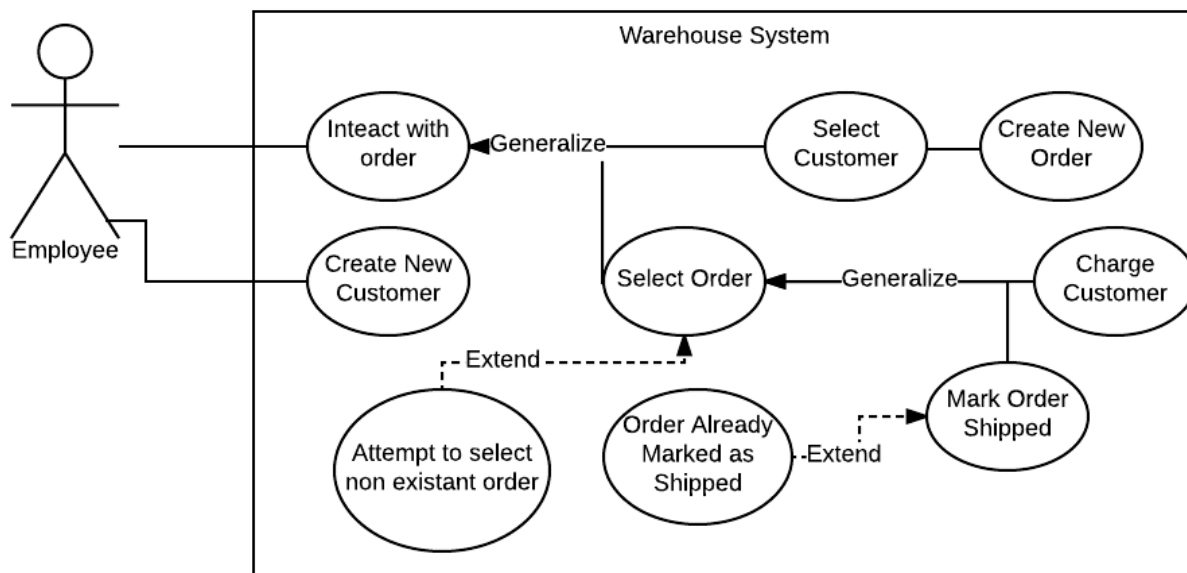   Create new customer

            Create new order

            Charge customer

            Mark Order Shipped
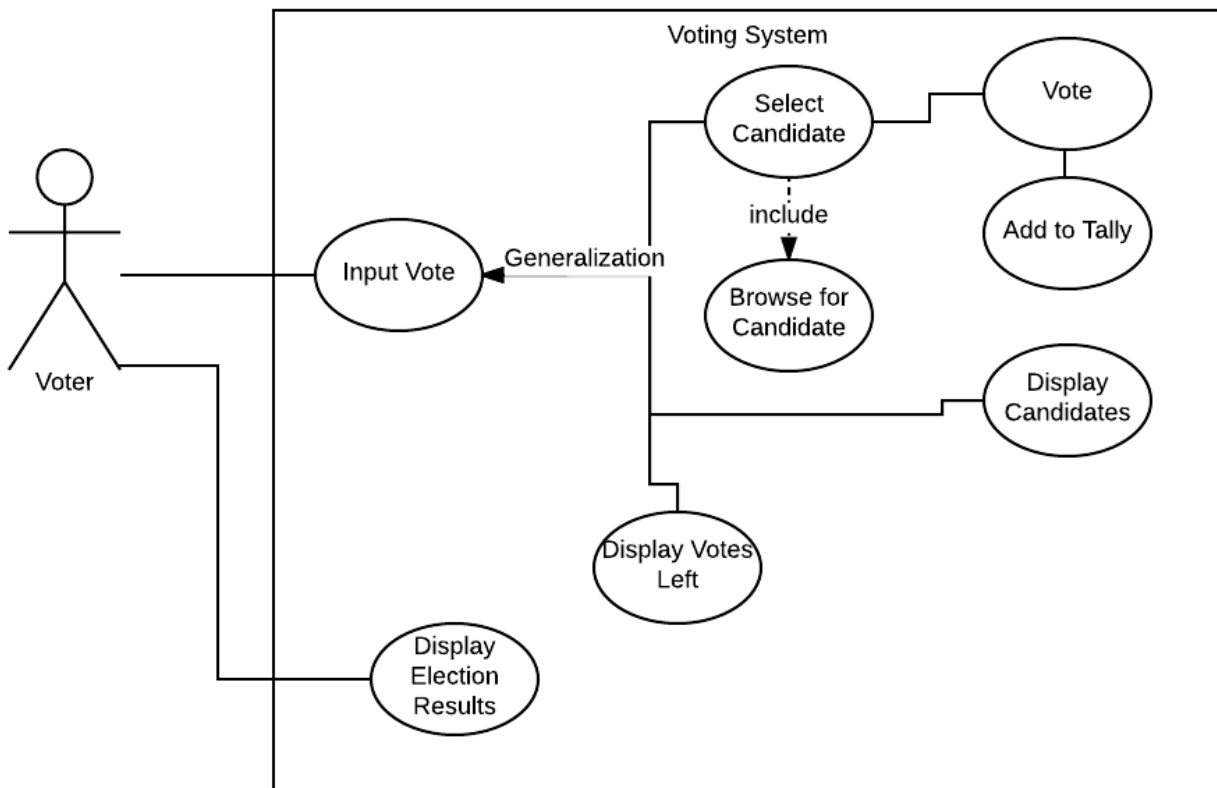

B

Actors:

Voter

    Display candidates

    Vote for a candidate

    Display Election Results

C

Actors:

    Managers

        Edit Services of a campground

        Upload map of campground
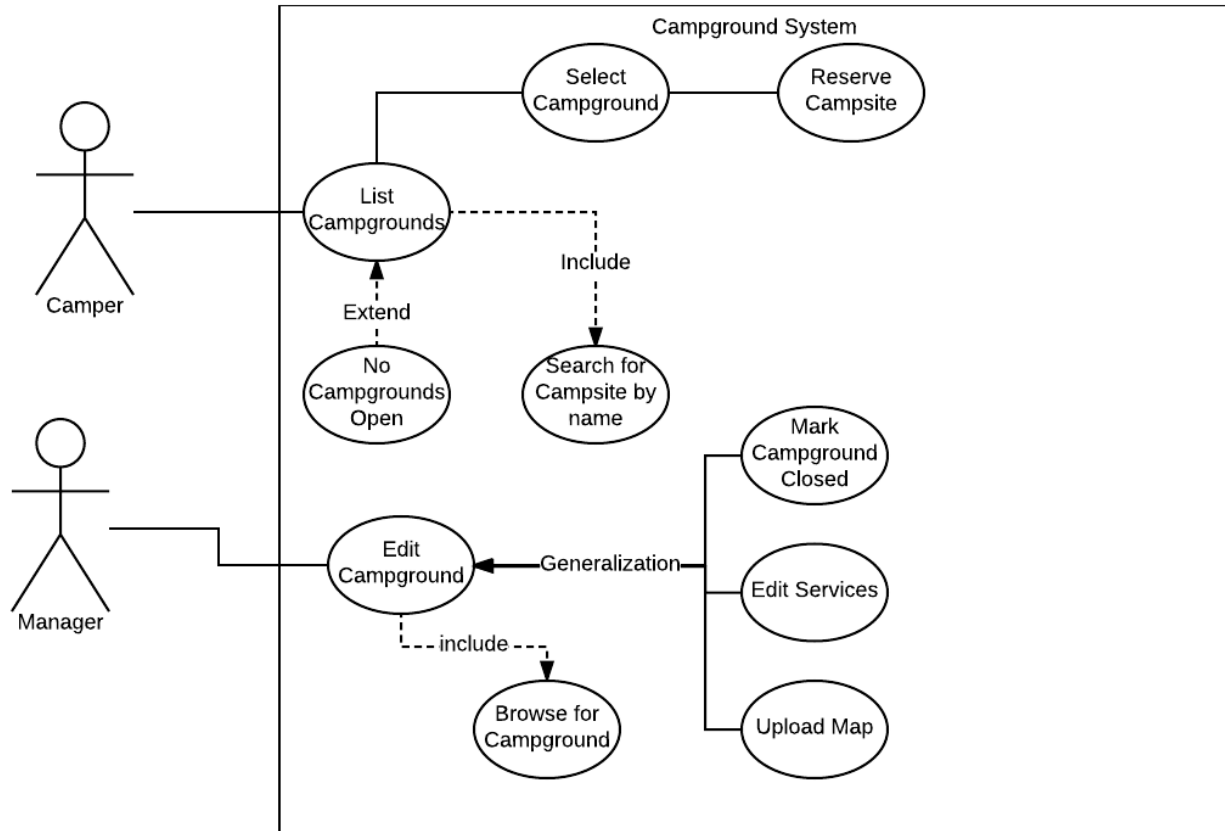
        Mark campground closed

    Camper

        List campgrounds

        Select Campground

Reserve campsite

3a

Use Case: Create Table in Word Processor

Actors: User, System

Goals: Create Table with X columns and Y rows

Preconditions: A blank word document is open

Description: A user wants to create a table with X columns and Y rows

Main Flow

Actor action	System response
1. Chose create table command	
	2. Display table creation menu
3. Input X columns and Y rows 4. Confirm table creation	
	5. Creates table and inserts into document

Alternate Flow

Actor action	System response
1. Chose create table command	
	2. Display table creation menu
3. Input X columns and Y rows	
4a. Select option for bold borders	
5a. Confirm table creation	6a. Creates table with bold borders and inserts into document

3b

Use Case: Heat food in 5 hours

Actors: User, Microwave oven

Goals: Program microwave oven to turn on in five hours and heat some food

Preconditions: The food is inside microwave oven and user is standing in front of the oven

Description: A man who will be hungry in 5 hours wants to let his food sit unrefrigerated in his microwave oven and heat up automatically in 5 hours. The man wants to cook the food for Q minutes at 350 degrees.

Main Flow

Actor action	System response
1. Select "Start in…" option	
	2. Prompt user for time input
3. Enter 5 hours	
	4. Prompt user for time to cook
5. Enter Q seconds	
	6. Prompt user for a cooking temperature
7. Enter 350 degrees	
	8. set internal 5 hour timer
	9. after timer is done heat to 350 degrees for Q minutes
	10. set off alarm indicating food is done
11. Eat food	

Alternate Flow

Actor action	System response
1. Select "Start in…" option	
	2. Prompt user for time input
3. Enter 5 hours	
	4. Prompt user for time to cook

5a. Enter Q seconds 7a. Enter 500 degrees 11a. Eat food	6a. Prompt user for a cooking temperature 8a. set internal 5 hour timer 9a. after timer is done heat to 350 degrees for Q minutes 10a. set off alarm indicating food is done