

Group 10 - Project 1

Group Members:

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Name of Software System: Camp Management System

Description (Paragraph): Our software product is a camp management system utilized to assist in daily camp tasks. Many camps often have to take attendance, message parents, set/view schedules, or need to look at information about a camper such as a birthday or allergies. With our camp management system, we will be able to do all these tasks electronically and in one system. Attendance through this system will track each camper with the tags excused, unexcused, and present. The messaging system will serve as a tool for parents and staff members to communicate with each other. Staff members will have two options either a message campaign (group messages) or individual messages. For schedules, both parents and staff members are able to view schedules. Our software will also be able to serve as a database for all of our campers. All information collected at registration will be able to be viewed by staff members.

Actors:

- Counselor- Camp leaders who are in charge of tracking attendance, running camps, and contacting parents
- Camper - Students at the camps
- Parent - The guardians of the campers who interact with the system to register and manage campers

Features:

1. Way to track attendance - Camille
2. View camper information - Dawson
3. Create and view schedule - Duncan
4. Send a message to parents - James
5. Login feature - Extra
6. Pay for camp -Extra

View Camper Information - Dawson

User Stories:

Feature: As a counselor, I want to access all camper information in the Camp Management System.

1. As a counselor, I want to see all camper information once a camper is signed up so that I know who is in the camps.
2. As a counselor, I want to search for campers in the system to find their camp and counselor, parent contact, birthday, and allergy information, so that I can contact parents and keep campers safe.
3. As a counselor, I want to sort a list of all campers by allergies so that I can make sure campers with allergies are not served the wrong food.
4. As a parent, I want to be confident that the counselors will keep track of my camper so that they are safe.

Use Cases:

- **Name:** View Camper List
Brief Description: Counselors can see a list of all registered campers
Related Requirements: Req 1, Req 4
Preconditions: The parent submits all camper information in sign-up
Successful end condition: All camper information is viewable by counselors
Failed end condition: Camper information is not available to counselors
Actors: Counselor
Basic flow of events:
 1. Camper data is added to Camp Management System
 2. Counselor looks at the camper list in the system**Extension/exception flow of events:**
 - 1.a. No new camper data added to the list
- **Name:** Search Campers
Brief Description: Look up campers by name or parent name
Related Requirements: Req 2, Req 4
Preconditions: All camper information is accessible by counselors
Successful end condition: Relevant camper(s) are displayed based on search terms
Failed end condition: Not all relevant campers appear from search term
Actors: Counselor
Basic flow of events:
 1. Counselor enters search term
 2. System searches camper list for term
 3. System displays results to counselor**Extension/exception flow of events:**
 - 3.a. No results found based on term
 - 3.b. System tells user there are no results for the term

- **Name:** Sort Campers

Brief Description: Sort the campers in the database alphabetically/numerically by name, allergies, camp, payments, or age

Related Requirements: Req 3, Req 4

Preconditions: All camper information is accessible by counselors

Successful end condition: Campers are sorted by specified category

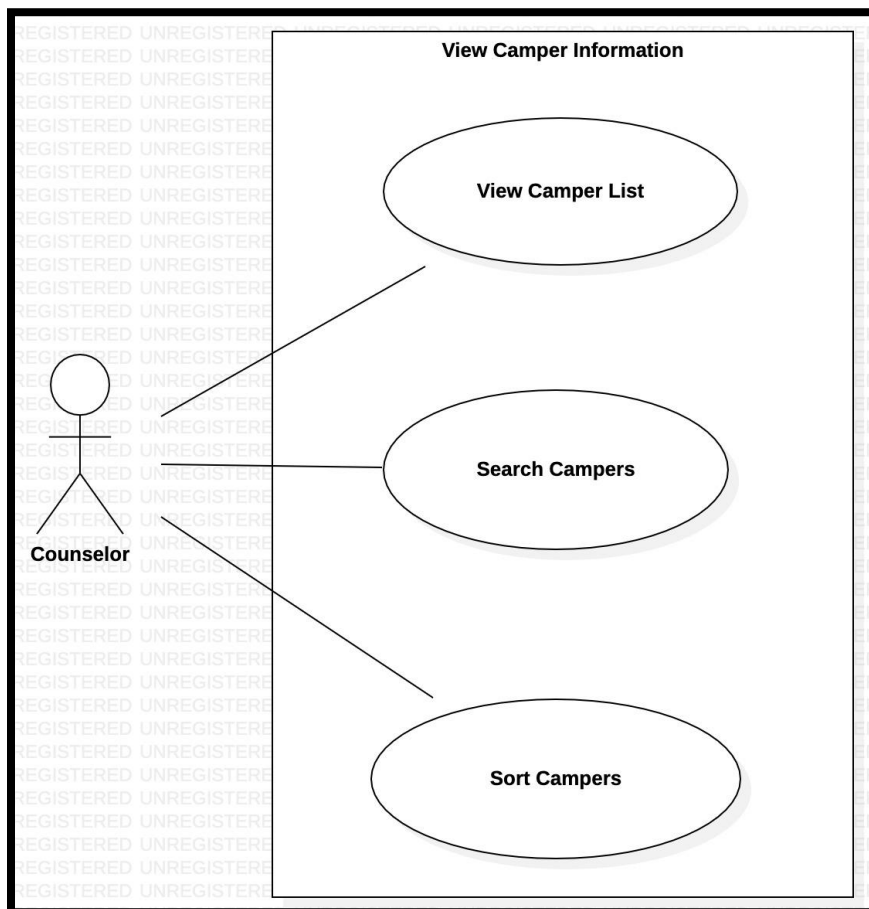
Failed end condition: Sorting is not displayed correctly based on selected category

Actors: Counselor

Basic flow of events:

1. Counselor selects category to sort
2. System sorts campers by category
3. System displays sorted results to counselor

Extension/exception flow of events:



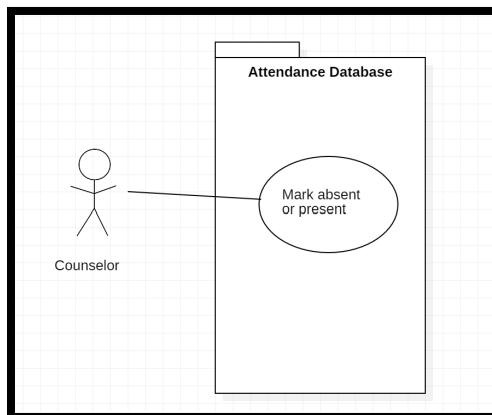
Ways to track attendance - Camille

User Stories:

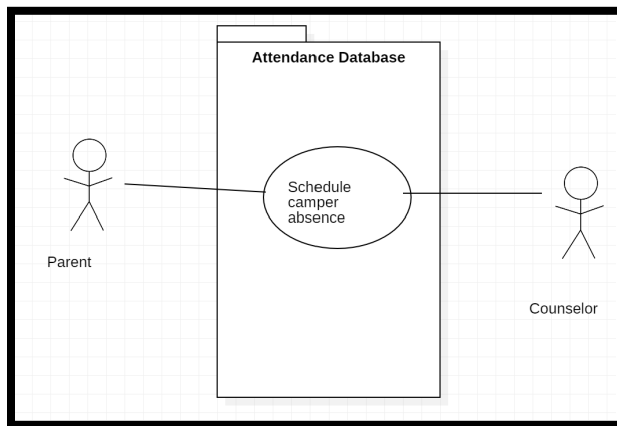
1. As a counselor, I want a way to keep attendance in the database so I know who attended camp each day to ensure the camper's safety.
2. As a parent, I want to schedule an excused absence for my child so the counselors know when my child will not be attending.
3. As a counselor, I want to mark a student "excused" if they are not coming to camp.

Use Cases:

- **Name:** track attendance
- **Brief description:** Track campers attendance everyday.
- **Precondition:** Camper is in the database
- **Successful end condition:** Attendance successfully marked
- **Failed end condition:** Attendance not added
- **Actors:** Counselor
- **Basic flow of events**
 1. Camper shows up or does not show up
 2. Counselor marks whether or not they showed up in the attendance database



- **Name:** Schedule absence
- **Brief description:** Parents able to schedule a camper's absence ahead of time
 - Example: Camper has dentist appointment in two days and parent schedules absence early
 - Typically multiple days in advance.
- **Precondition:** Camper is in the system
- **Successful end condition:** Counselors are aware the camper will not show up that day
- **Failed end condition:** Camper marked unexcused
- **Actors:** Parent
- **Basic flow of events**
 1. Parent logs in to system
 2. Parent schedules campers absence



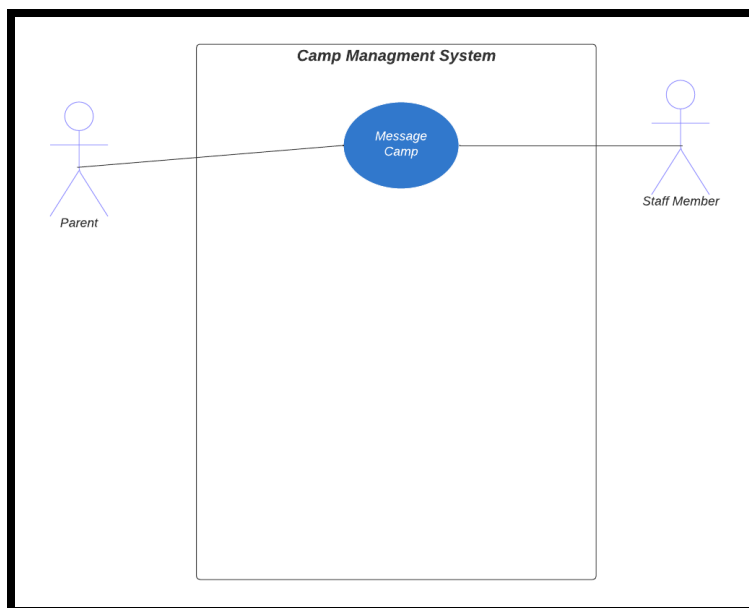
- **Name:** Excuse student
- **Brief description:** Counselor able to mark a student excused if their parent called ahead of time
 - Example: "My son is sick and will not be at camp today"
 - Typically for same day absence.
- **Precondition:** Parent called ahead of time and Camper is in database
- **Successful end condition:** Camper correctly marked excused
- **Failed end condition:** Camper marked unexcused
- **Actors:** Counselor, Parent
- **Basic flow of events:**
 1. Parent notifies camp of campers absence,
 2. Counselor marks camper excused in the database for that day

Messaging System - James

User Stories:

1. As a counselor, I want to message parents so that they are aware of their camper's experience.
2. As a counselor, I want to message parents so that they are aware if their camper is having behavioral problems.
3. As a counselor, I want a messaging system so that I can have parents notify me of pickup/dropoff changes.
4. As a counselor, I want a messaging system so that I can be contacted by parents with emergency messages.
5. As a counselor, I want a messaging system so that I can make parents aware of their camper's day.

Use Cases:



Name: Message Camp

Brief description: The parent sends a message to a counselor or staff members

Precondition: The parent has contact information in the system

Successful end condition: Staff receives a message

Failed end condition: Message not received

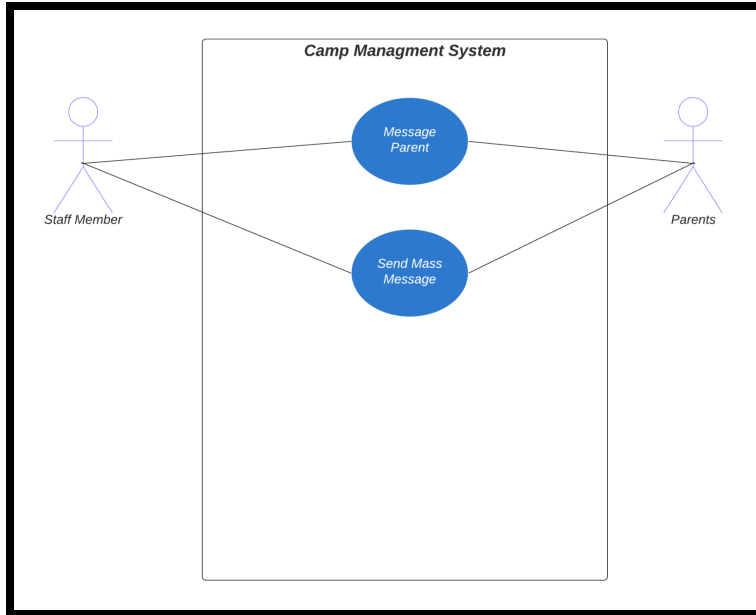
Actors: Counselor, Parent

Basic flow of events:

Message is created

Message is sent

Confirmation receipt is sent



Name: Message Parent

Brief description: A counselor or staff member sends a message to a parent

Precondition: The parent has contact information or has created a profile

Successful end condition: The parent receives a message

Failed end condition: Message not received or no account found

Actors: Counselor, Parent

Basic flow of events:

- Message is created

- Type of message is chosen (Text, Email, or in-app messaging)

- Message is sent

- Confirmation receipt is sent

Name: Message Campaign

Brief description: A counselor or staff member sends a message to a group of parents

Precondition: The parent has contact information or has created a profile

Successful end condition: The parent receives a message

Failed end condition: Message not received or no account found

Actors: Counselor, Parent

Basic flow of events:

- Message is created

- Type of message is chosen (Text, Email, or in-app messaging)

- Message is sent

- Confirmation receipt is sent

View Schedule Feature - Duncan

As a counselor, I want to be able to view my schedule with my activities, so that I can prepare for each day.

Name: View counselor schedule

Brief Description: Show a counselor their activities on their schedule.

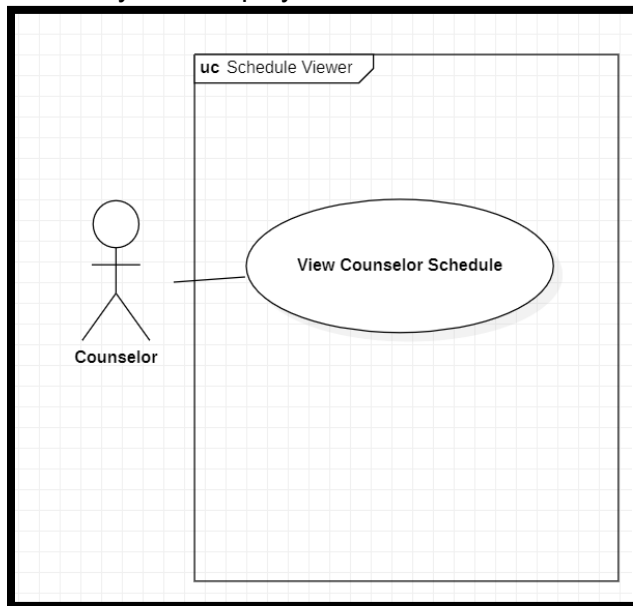
Preconditions: Counselor must be logged in.

Successful end condition: Counselor views their schedule.

Actors: Counselor

Basic flow of events:

1. Counselor chooses to view schedule
2. System displays the counselor's schedule



As a counselor, I want the schedule to show lists of campers for each activity, so that I can keep track of campers and attendance.

Name: View campers for activity

Brief Description: Counselors must be able to view a list of campers for each activity.

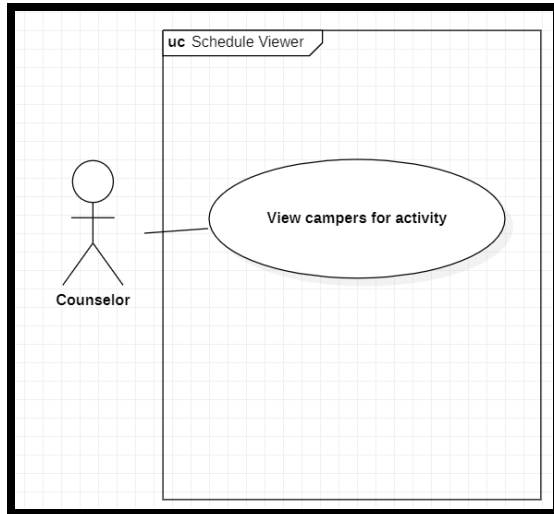
Preconditions: Counselor must be logged in and viewing their schedule

Successful end condition: Counselor views a list of campers for an activity.

Actors: Counselor

Basic flow of events:

1. Counselor selects an activity
2. System displays list of campers for the activity



As a parent, I want to be able to view my camper's schedules, so that I can know what they are doing and inform the counselors if there are any issues.

Name: View camper schedule(s) from parent view

Brief Description: Parents must be able to view their camper's schedule or schedules if they have multiple children attending.

Preconditions: Parent must be logged in and have children registered as campers.

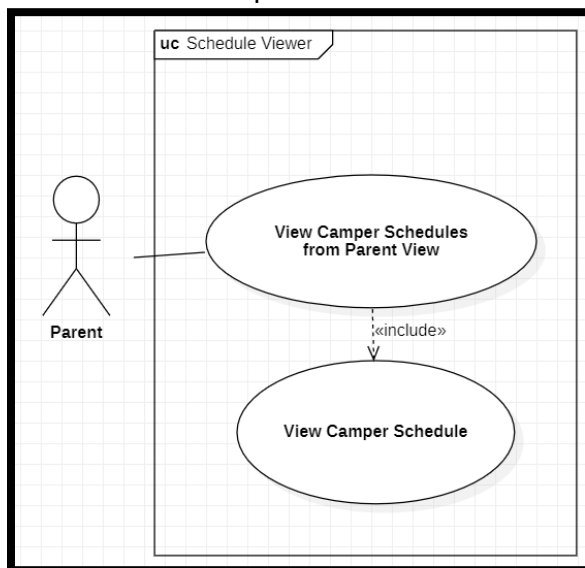
Successful end condition: Parent views schedule(s)

Actors: Parent

Basic flow of events:

1. Parent chooses to view schedule
2. System displays the parent's schedule

Includes: View camper schedule



As a camper, I want to be able to see what activities I am signed up for and when they are, so that I can know what is going on.

Name: View camper schedule

Brief Description: Show a camper their schedule and activities.

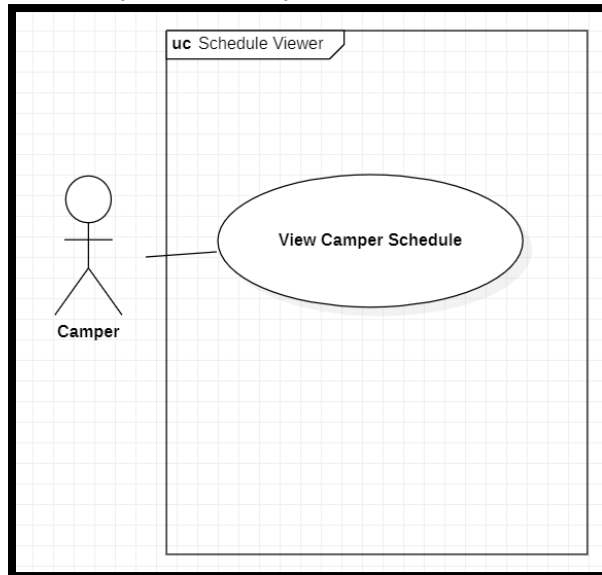
Preconditions: Camper must be logged in.

Successful end condition: Camper views their schedule

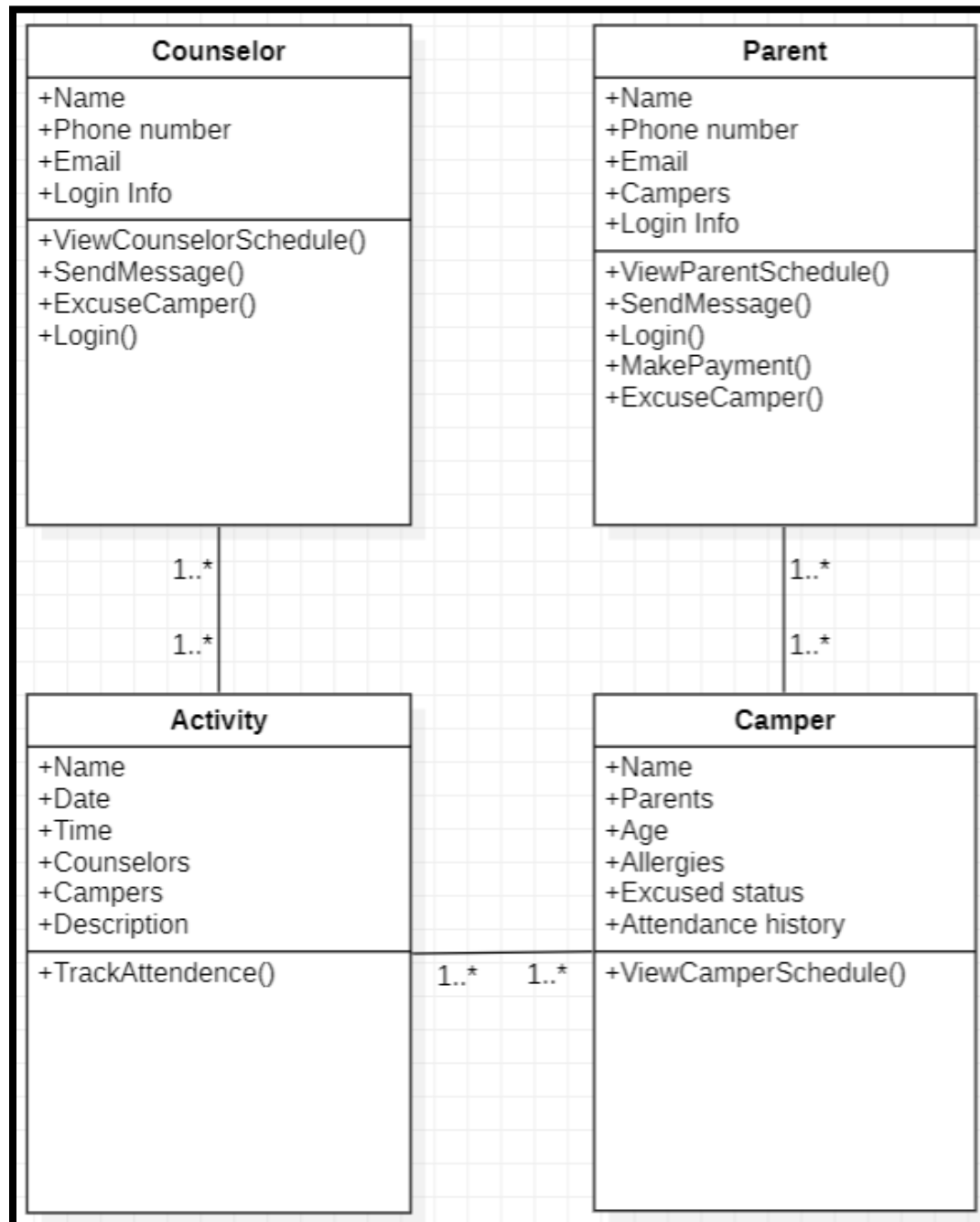
Actors: Camper

Basic flow of events:

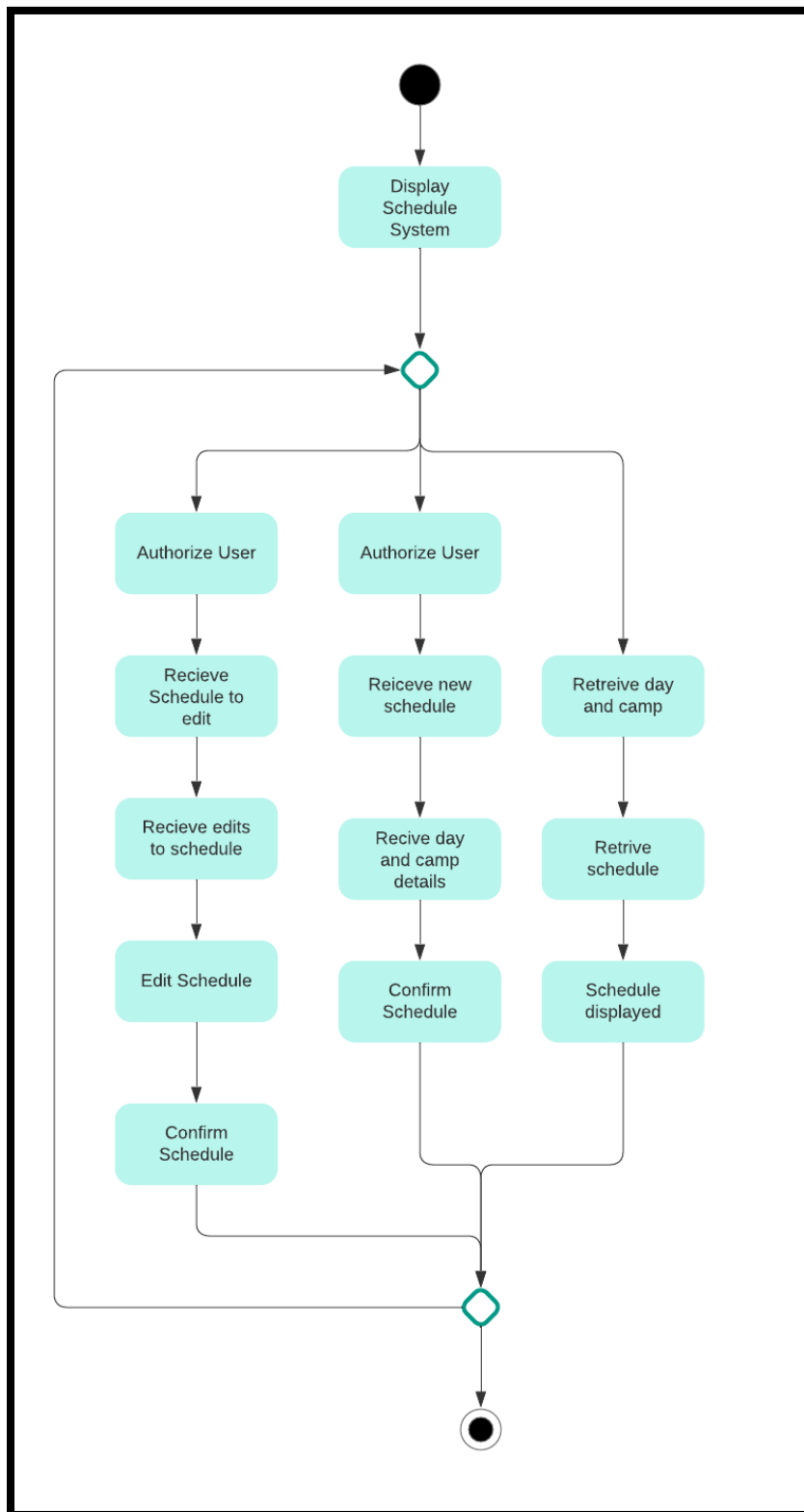
1. Camper chooses to view schedule
2. System displays the camper's schedule



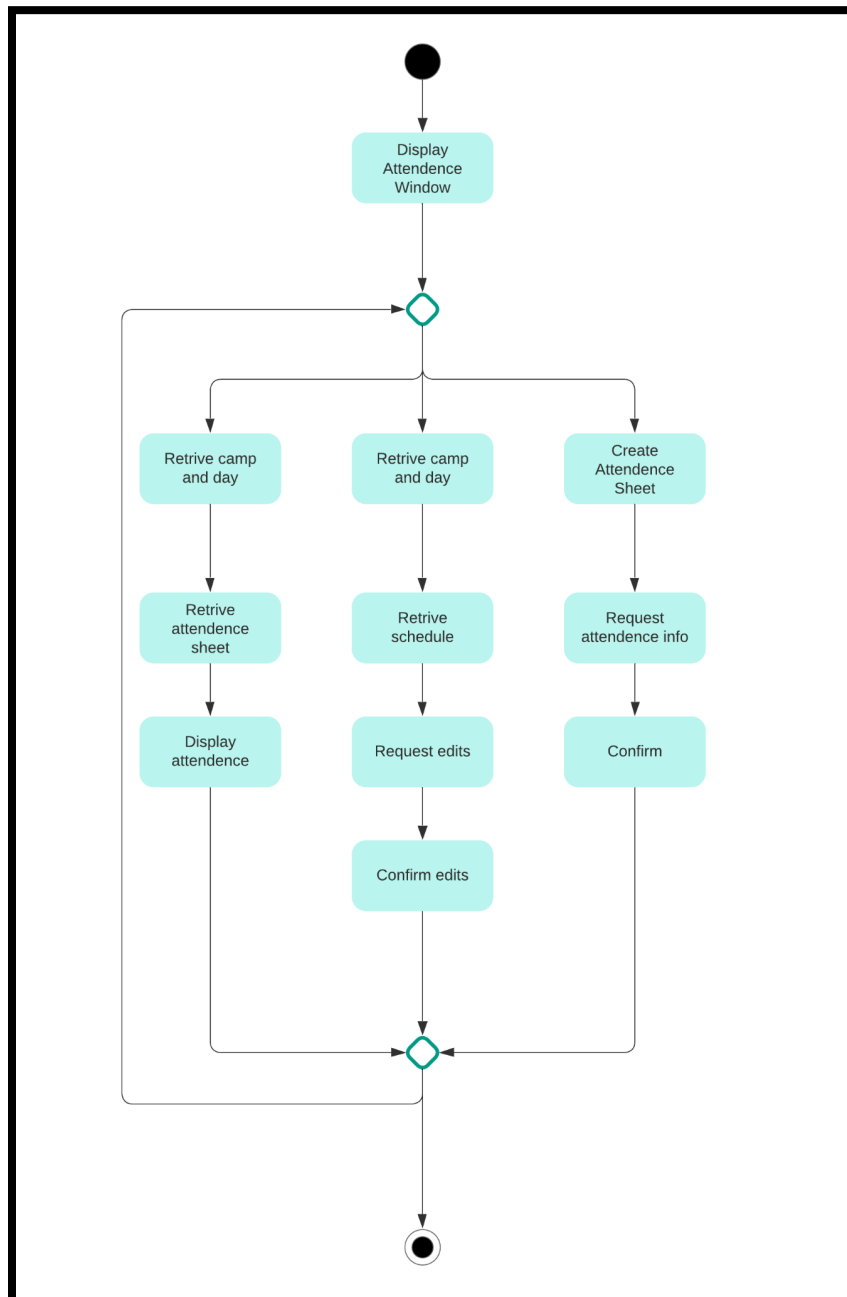
Class Diagram



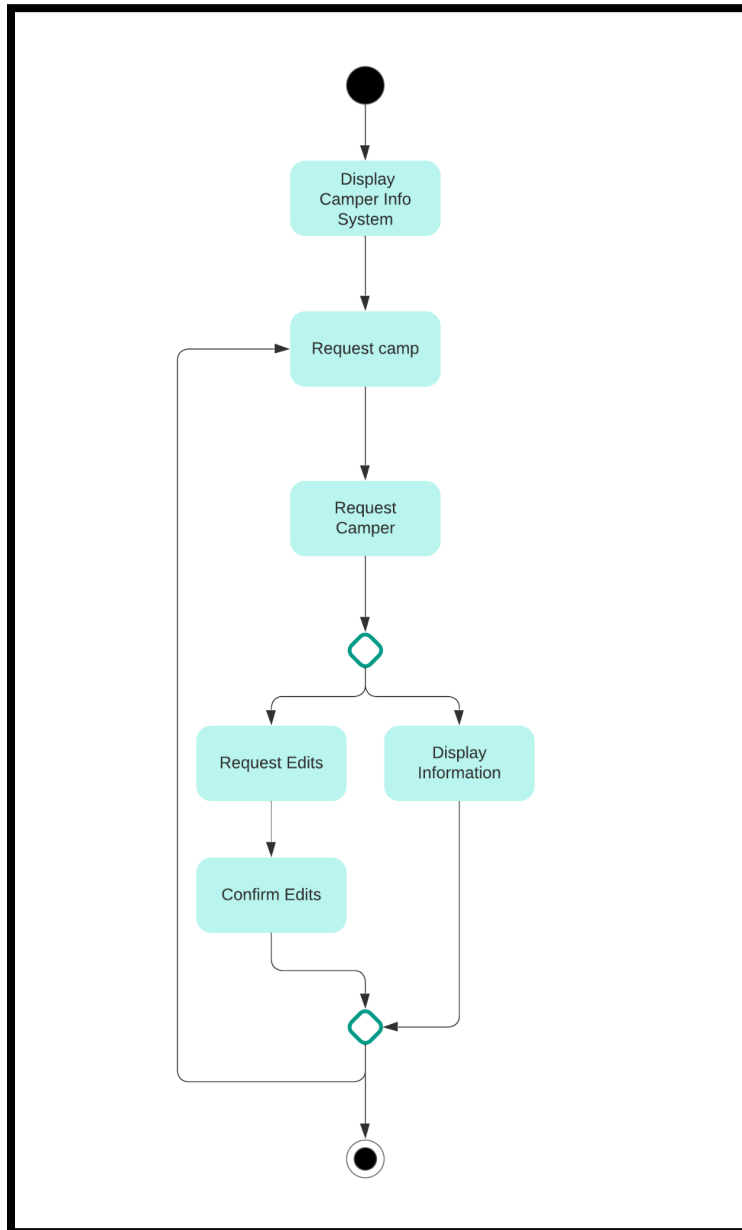
Schedule Activity Diagram



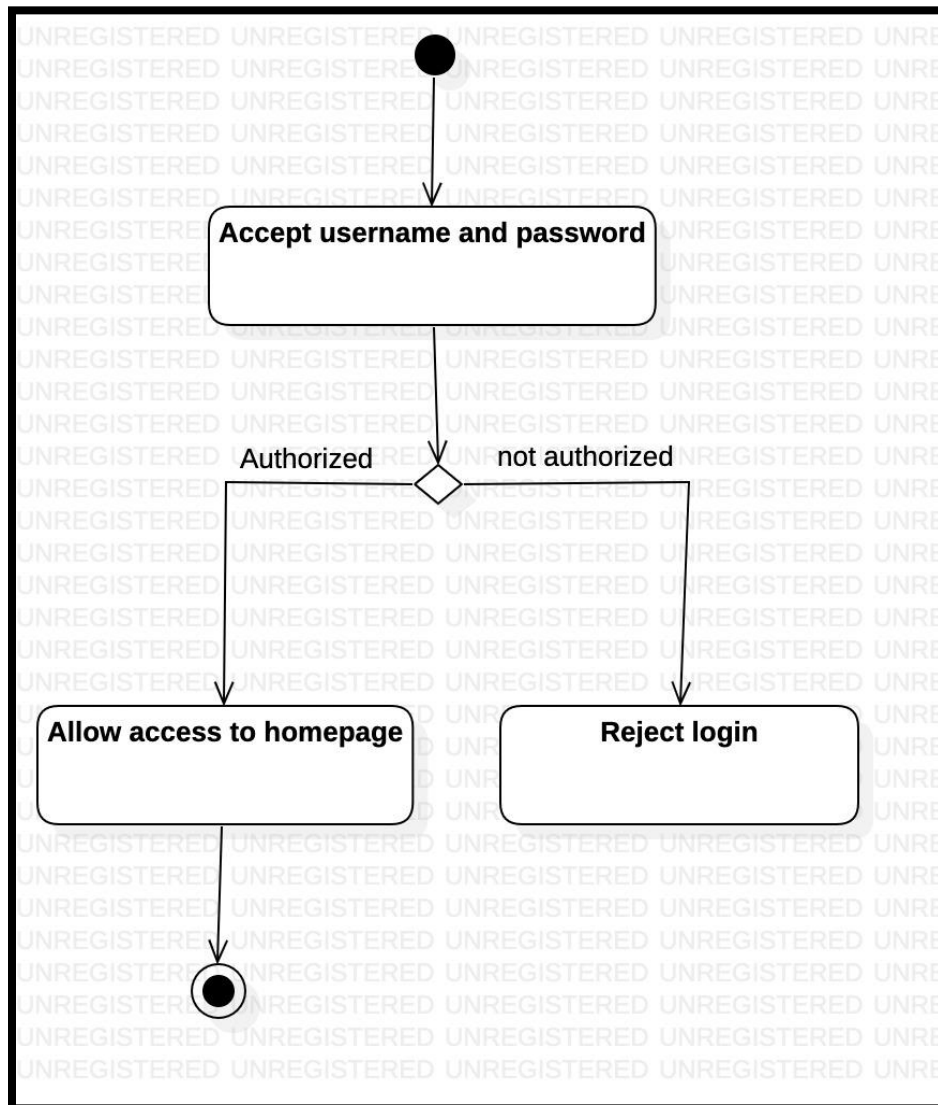
Attendance Activity Diagram



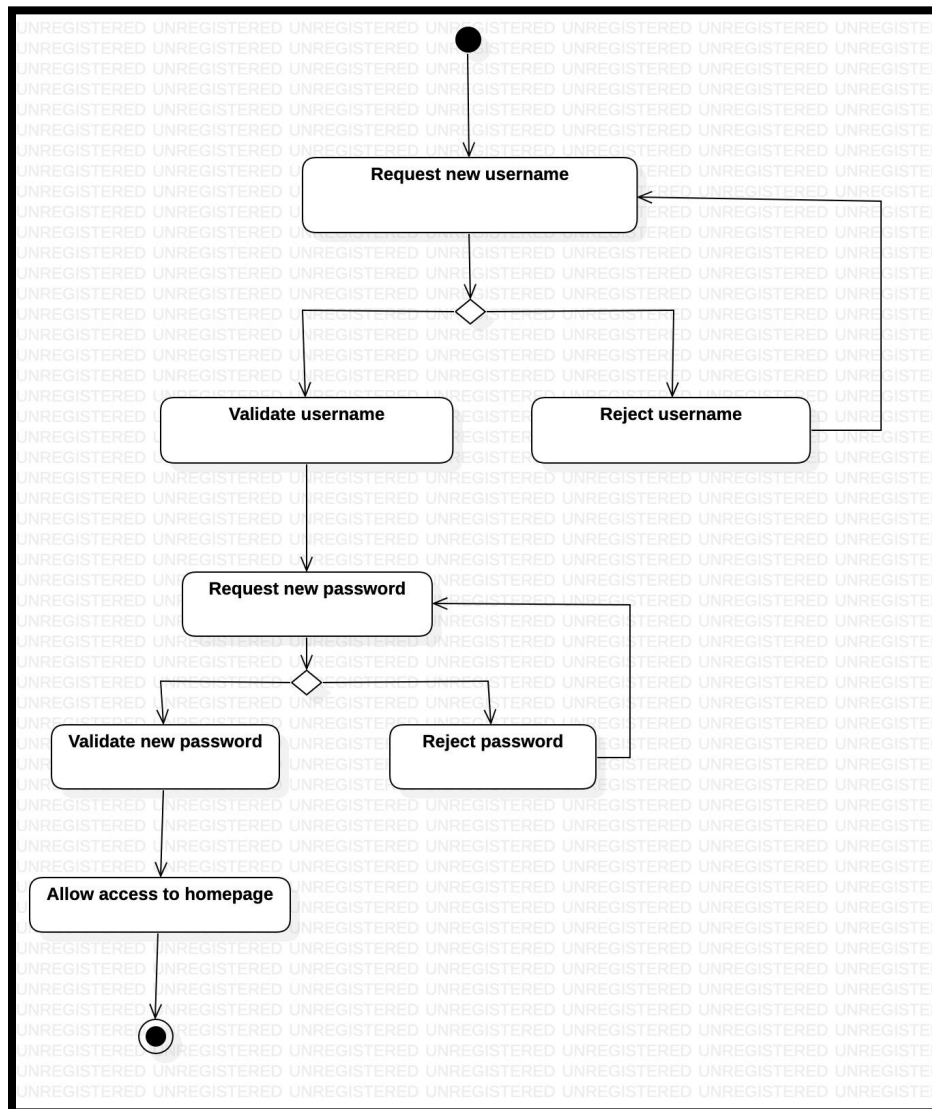
Camper Info Activity Diagram



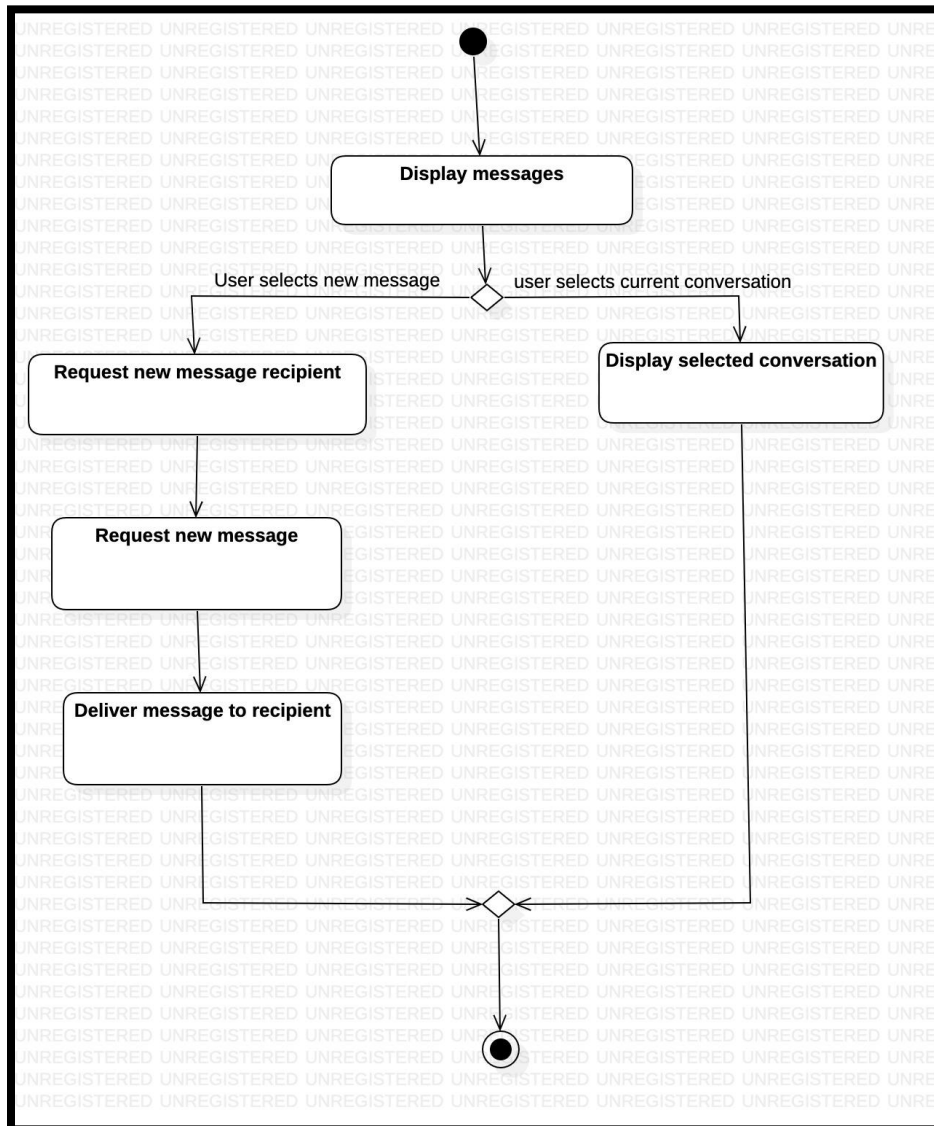
Sign-In Activity Diagram



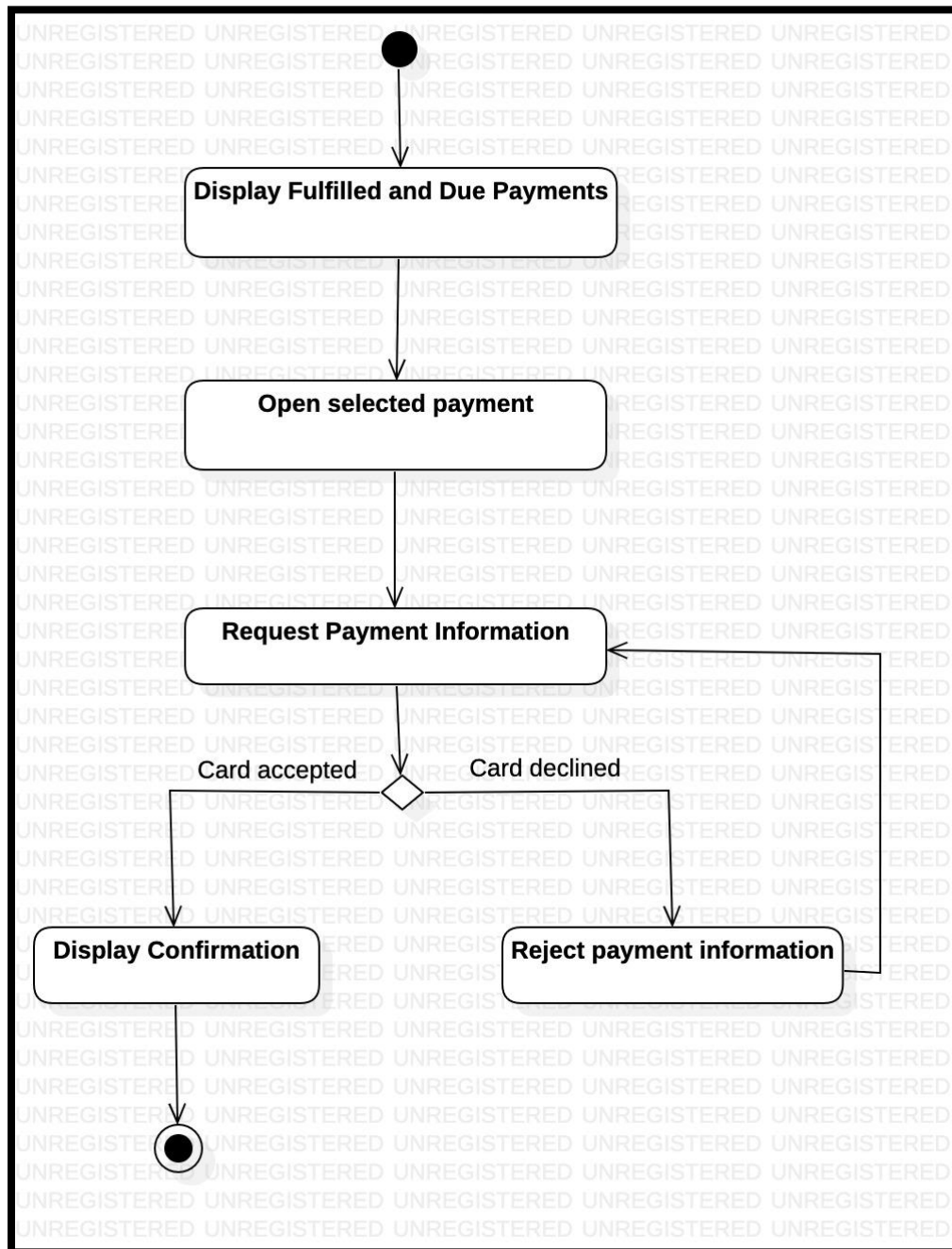
Create Account Activity Diagram



Messages Activity Diagram



Payment Activity Diagram



Statechart Diagram

