

## User Stories

1. As a weather controller, I want to control the heater inside every part of the base so I can change the temperature whenever I want.
2. As a security board operator, I want to control and access to the recordings of the CCTV cameras so I can check the surveillance of the base.
3. As an electrical engineer, I want to control every electrical circuits including battery and generators around the base so I can upgrade or repair time to time.
4. As a power source operator, I want to control the wind turbine so I can park it, in the event of a blizzard to avoid damage.
5. As a scientist, I want access to the collected data so I can edit, send, or use to the research.
6. As a network admin, I want to communicate to headquarters so I can provide details about the base condition in case of emergency.
7. As a vehicle controller, I want to control the vehicles in the base so I can use vehicles to the research.
8. As a server maintenance man, I want access to the server room so I can repair or check the hardware malfunctions time to time.
9. As a rescuer, I want to know the location of the vehicles in the base so I can use it in case of emergency rescue missions.
10. As a civil engineer, I want to see the blueprints of the base so I can use it check damages and environment.

## Use Cases

### 1. Use case 2. Accessing the security systems

**Goal:** to allow the security board operator to check the surveillance of the base.

**Primary actor:** security board operator (Human).

**Secondary actors:** database.

**Precondition:** security board operator should have the surveillance database password and ID number.

**Trigger:** security board operator selects the base security option.

**Flow of Events:**

1. Security board operator inputs the password and ID number.
2. System validates the login credentials.

3. System gives access to all the security systems inside the base.
4. System allows to control the security systems inside the base.
5. System saves the last visit date, time and changes to the database.

- Extensions:**
- 2A -** The user inputs incorrect login credentials.
    1. The system asks the user to input the correct login credentials.
    2. The use case resume at step 1.
  - 2B -** The user inputs incorrect login credentials more than five times.
    1. The system asks to enter the backup password.
    2. The use case resume at step 1.

## 2. Use case 5. Accessing the collected data

- Goal:** to allow the scientists to access the collected data.
- Primary actor:** scientist (Human).
- Secondary actors:** database.
- Precondition:** scientist should have the database password and ID number.
- Trigger:** security board operator selects the base security option.
- Flow of Events:**
1. Scientist inputs the password and ID number.
  2. System validates the login credentials.
  3. System gives access to the collected data.
  4. System allows to view or edit the data.
  5. System check for the data breach.
  6. System saves the last visit date, time and changes to the database.
- Extensions:**
- 2A -** The user inputs incorrect login credentials.
    1. The system asks the user to input the correct login credentials.
    2. The use case resume at step 1.
  - 2B -** The user inputs incorrect login credentials more than five times.
    1. The system asks to enter the backup password.
    2. The use case resume at step 1.

5A - The user tries to share or edit data.

1. The system asks to enter the security pin.
2. The use case return at step 4.

### 3. Use case 9. Finding the vehicles

Goal: to show the location of the vehicles.

Primary actor: rescuer (Human).

Secondary actors: gps server.

Precondition: rescuer must have a tracking device.

Trigger: rescuer request a vehicle from the server.

Flow of Events:

1. Rescuer enters the type of the vehicle.
2. System checks for the availability of the vehicle.
3. System sends the location to the tracking device.
4. System check if the location detail sent or not.

Extensions: 1A - The rescuer enters the wrong type of vehicle.

1. The system asks to enter the correct type of vehicle.
2. The use case resumes at step 1.

2A - The vehicle type is not available.

1. The system asks to enter another type of vehicle.
2. The use case resumes at step 1.

2B - No vehicle is available.

1. The system alerts the administrator and rescuer.
2. The use case resumes at step 2.

4B - The tracking device is not online.

1. The system sends a warning to administrator.
2. The use case resumes at step 3.

## Use Case Diagram

