

## Team Name

- Fellas

## Team Project

- Topic: IoT Sensor Monitoring System
- Project: BC Weather & Wildfire Services Application

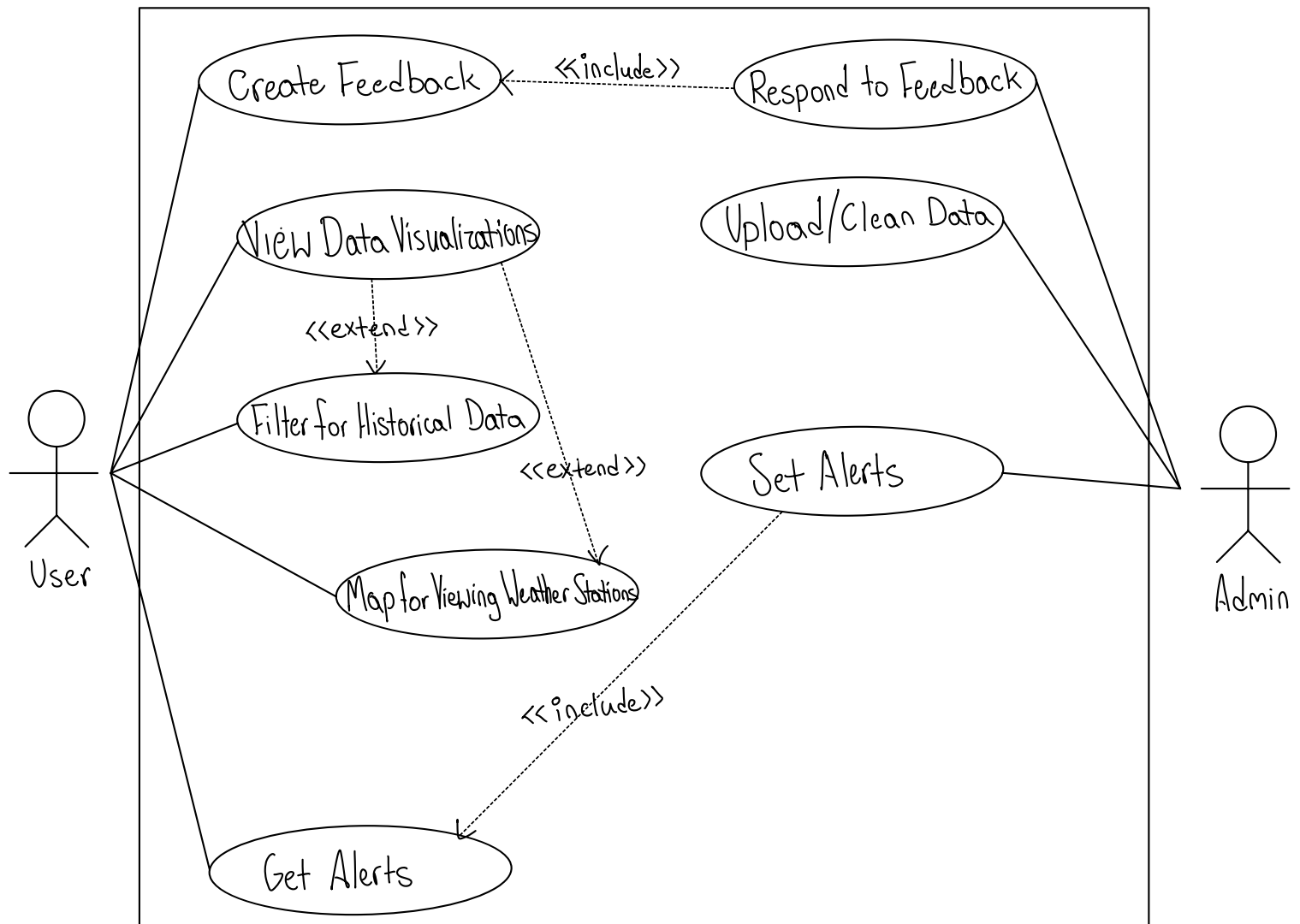
## Team Lab

- L03

## Team Members

- Carson Drobe, Student No. 90172180
- Davis Franklin, Student No. 99549271
- Robert Yacovelli, Student No. 43341445
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## Use Case Diagram



## Use Cases

- **Actor:** User

- **Primary actor:** User
- **Description:** The user should be able to provide feedback to the developers if they have any requested features or questions.
- **Precondition:** The user needs an email as a method of contact.
- **Postcondition:** If successful and the developers receive feedback then they will be able to follow up with the user.

- **Primary actor:** User
- **Description:** The user should be able to view the data visualizations on the dashboard.
- **Precondition:** -
- **Postcondition:** The user will be able to view data in the form of visualizations
  - View Data Visualizations
    - Temperature
    - Relative Humidity
    - Precipitation
    - Wind speed
    - Wind direction
    - Wind Gust

- **Primary actor:** User
- **Description:** The process of filtering Historical (Daily, Weekly, Monthly, Annually)
- **Precondition:** The user should be able to view the visualizations.
- **Postcondition:** The user will be able to filter the data.

- **Primary actor:** User
- **Description:** The process of viewing weather stations (Map): There will be a map.
- **Precondition:** -
- **Postcondition:** The user will be able to see where the BC wildfire weather stations are located and will be able to select them to get more details about that particular station.

- **Primary actor:** User
- **Description:** Get alerts: Users should be notified in extreme cases of weather. If the temperature is too high or with high wind speed, the dashboard would indicate a warning.
- **Precondition:** -
- **Postcondition:** The user will be able to receive a global notification that provides an alert on the dashboard for any potential extreme weather.

◦ **Actor:** Admin

- **Secondary actor:** Admin
- **Description:** Receive feedback: The admin should be able to receive the feedback that users have created.
- **Precondition:** -
- **Postcondition:** Admin will be able to follow up with any requests and solve any issues brought up by users.

- **Secondary actor:** Admin
- **Description:** Upload/Clean Data: Administrators/Developers can perform bulk data uploads from weather station sensors.
- **Precondition:** -
- **Postcondition:** Data will be updated.

- **Secondary actor:** Admin
- **Description:** Set alerts: The admin should be able to set alerts based on certain weather conditions.
- **Precondition:** -
- **Postcondition:** The alerts will show globally on the dashboard alerting users of extreme weather.