Flood Detection and Alerts Notification Scenario

Water Quality Control and Flood Detection

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Water Quality Control and Flood Detection is a system which produces a continuous report about the water quality of the natural resources and gives an overhead of flood alert. The system will predict the water level using the previous data that is stored in the system's database. End User is classified mainly into three different categories namely, the public, pharmaceutical companies, and the Government Agencies.

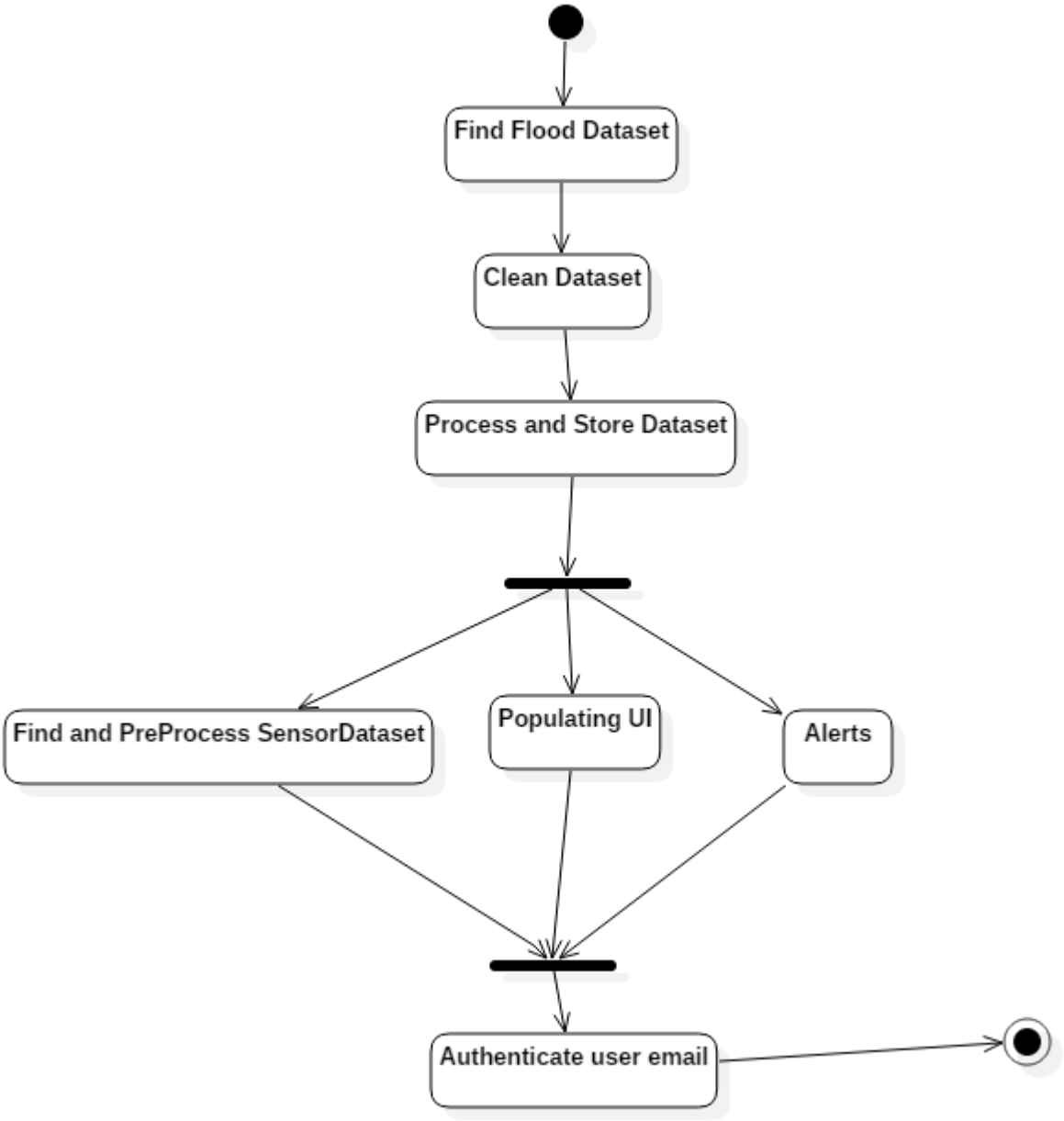
The sensors are installed in the different water bodies which gives us real time data of the composition of minerals in the water bodies and they are stored in the database.

Water Quality Control and Flood Detection Scenario:

In this sprint, we will be completing the following stories:

- **Water quality and Flood detection dataset**: Finding the dataset to populate the database, with the composition of minerals in the water body and the level of water to detect flood.
- **Interface to monitor the water quality and detect flood**: In this story, an interface will be built to display the composition of minerals and to display the likelihood of flood.
- **Sensor to obtain data**: Building a sensor to obtain the composition of minerals and the level of water in the water body.
- **Alert Mechanism**: In this story, a mechanism will be developed to send a flood and water quality alert.
- **Authentication mail**: This story involves development of a mechanism that provides access to only authenticated user and ensures that malicious users are not provided access to the application.

The diagram below, represents the activity diagram for the scenario.



Water Quality Control and Flood Detection Scenario Activity Diagram.