# 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 like the general public, pharmaceutical companies, and the Government Agencies.

The sensors are installed in the different water bodies which give us continuous data of the different minerals in the water bodies and they are stored in the database. After every interval( like 1 minute) the output is displayed them in the screens of the respective user. An alert message is sent to all the users when a flood is predicted or the water quality is in hazardous level.

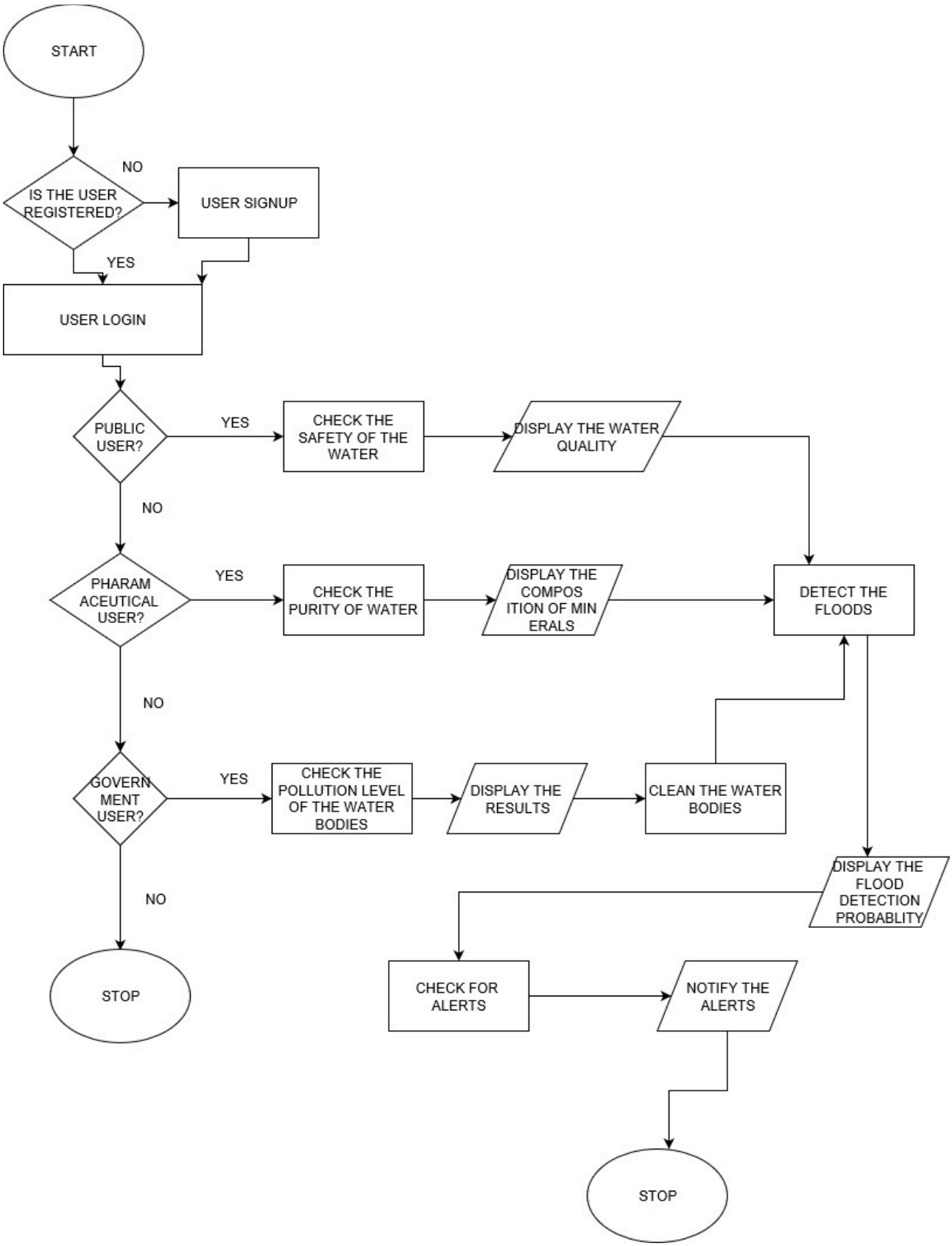
**Flood Detection and Alerts Notification Scenario:**

In this scenario, we are going to work on accessing the data from the weather station and predicting the floods. The focus is even on predicting the floods for the next one week using the data already present within the system.

The User-Interface is also developed in this scenario. The end-user must be able to register himself by classifying into which type of the user he is. There are different requirements for different users and hence there will be different layouts for each class of users. The user can also view different region's data if he wishes to do so by selecting a different location. For the flood detection scenario, the interface is common for all the users.

Alerts are to be notified if a flood is predicted or if the water quality level has breached the hazardous level. In this scenario, we are planning to send out to the registered emails of the end-users.

**Scenario Diagram:**




Flood Detection and Alerts Notification Scenario Flow Chart