

Team 1

Regional Water Quality Monitoring and Alert System

LGSI Project

03/Jan /2023 ~ 25/Jan/2023

Our mentor

Vibanshu

01

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Introduction & Background

Introduction of team1

We have superior teamwork skills.

Service proposal background

What makes us to choose this topic

02

Introduction



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Taegon Lee

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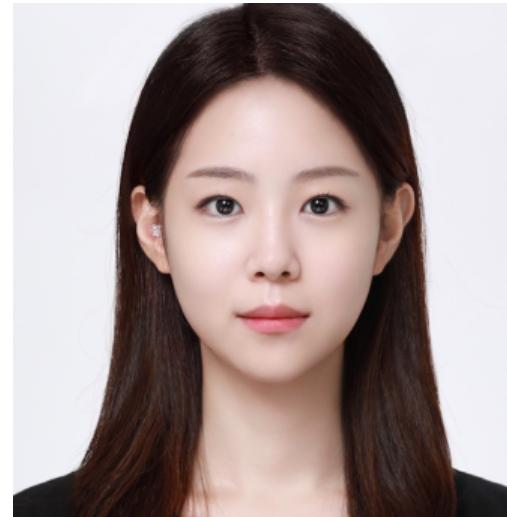
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Service Proposal Background



water pollution



shortage of clean water

Water pollution is one of the biggest issues facing India right now. As may be evident, untreated sewage is the biggest source of such form of pollution in India. The single biggest reason for water pollution in India is urbanization at an uncontrolled rate.

04

Service Proposal Background

On average **200,000** people die every year

75% of India's total population is affected by contaminated water.

05

Service Proposal Background

How about monitoring the water quality in India
in real-time?

What is 'PURESOME'?

Regional Water Quality Monitoring
and System

Functions

4 Sensors to monitor status of
water and give the aram to users



Service Overview

06

Service Overview

What is 'PURESOME'?



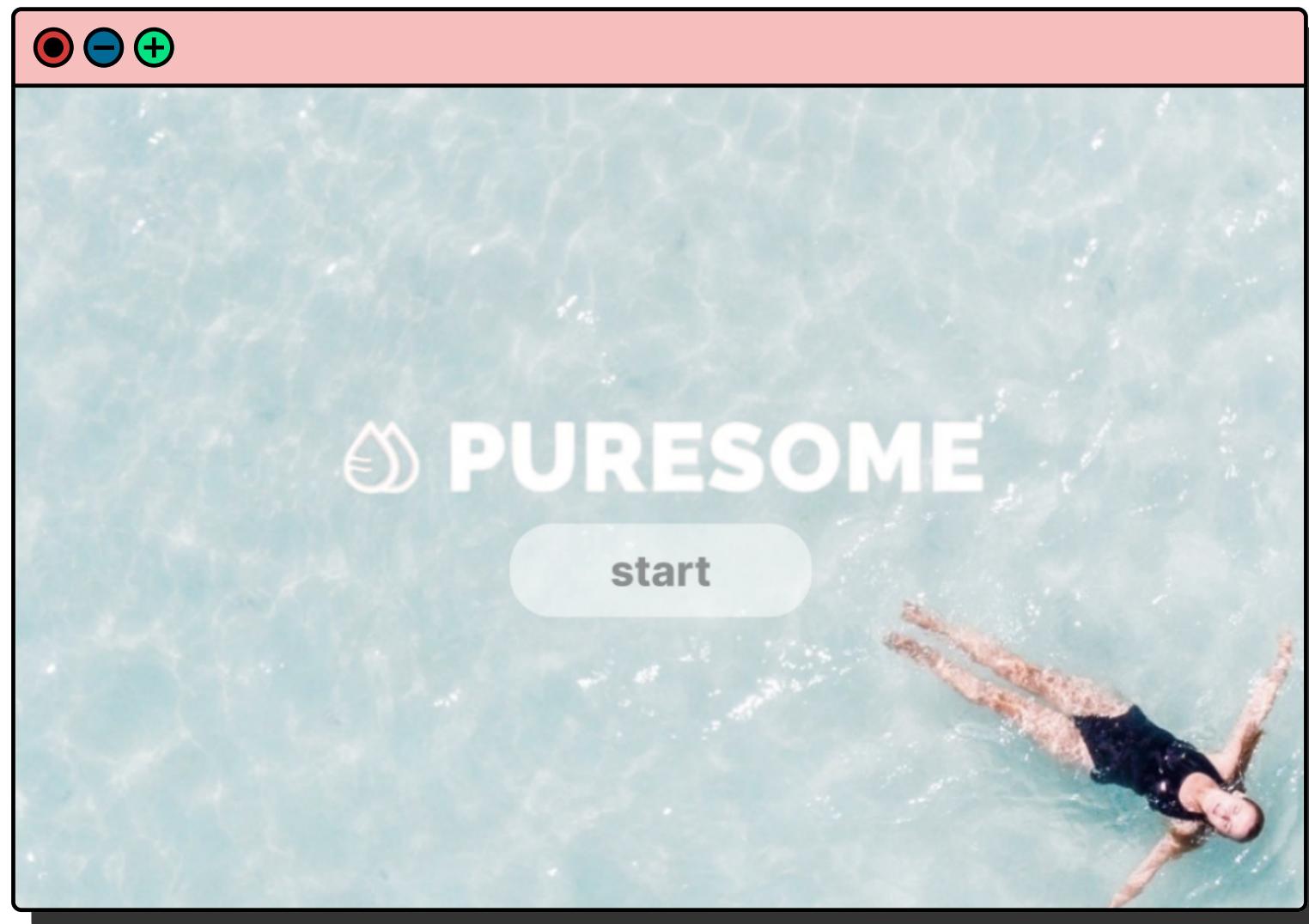
**to promote better water management
in India.**

**to accumulate data on water quality
and flow monitoring.**



07

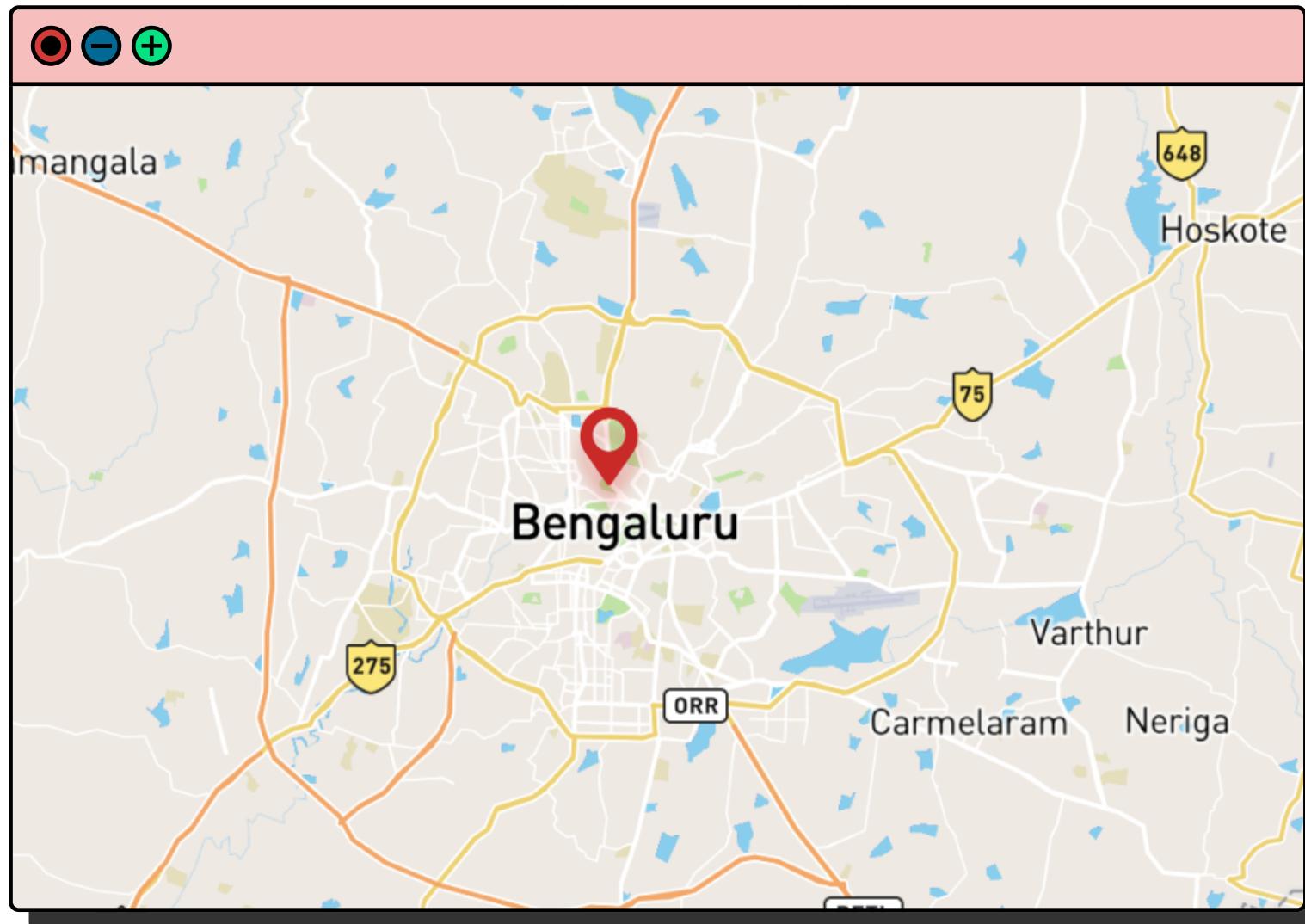
Service Overview



a user-friendly web application that allows users to access real-time data and analytics related to water quality.

08

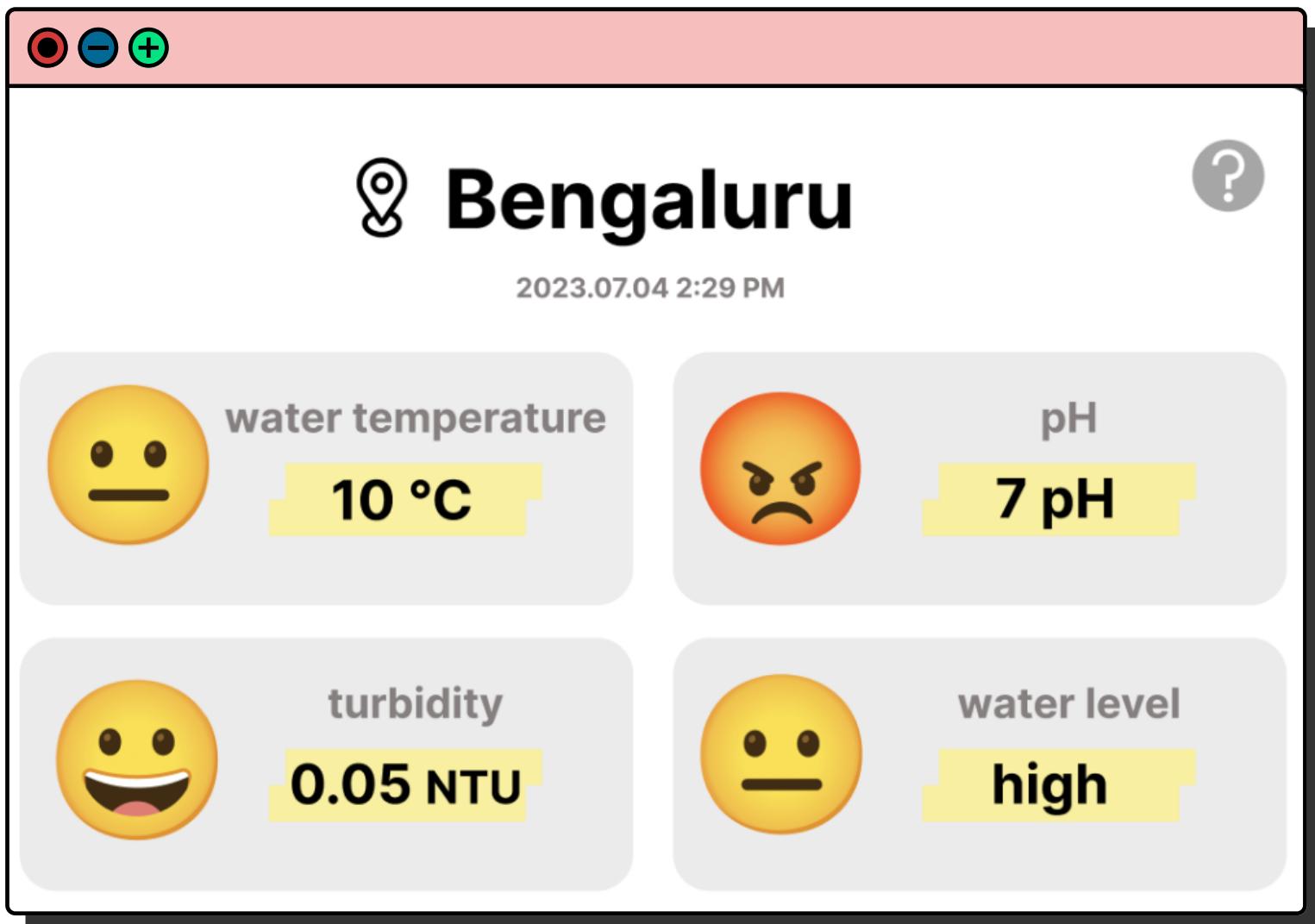
func1) region selection



Users select the region where they live currently

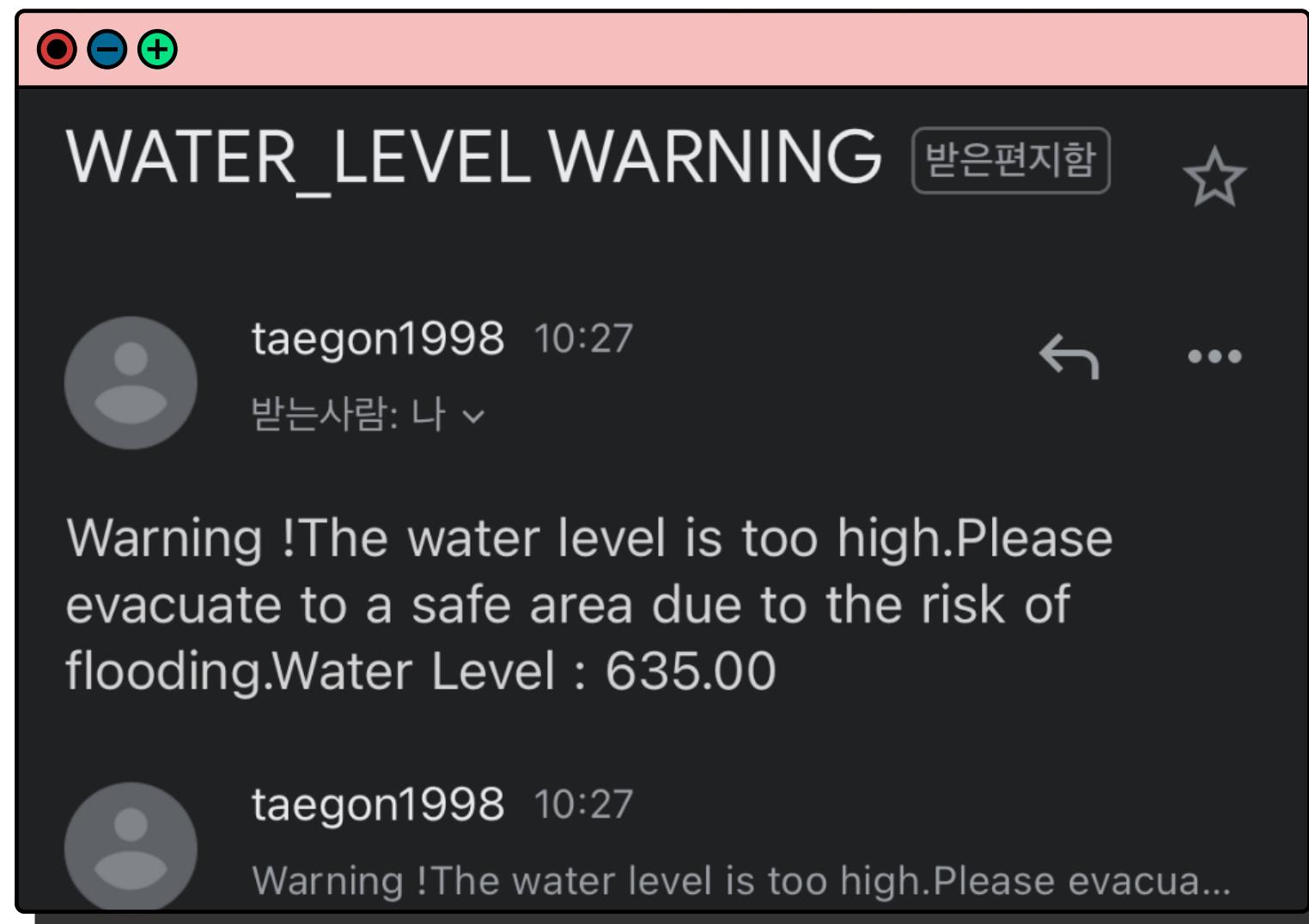
09

func2) Monitoring



It displays the water quality status of the region set by the user.

10 _____ func3) Alarm



It sends an email alert to the user if the measured values exceed the normal range.

Terms

What's covered in these terms

We know it's tempting to skip these Terms of Service, but it's important to establish what you can expect from us as you use PURESOME services, and what we expect from you.

- What you can expect from us, which describes how we provide and develop our services. (sites and integrated services)
- What we expect from you, which establishes certain rules for using our services. (Although we give you permission to use our services, we retain any intellectual property rights we have in the services.)

By using our service, you agree to these terms and conditions, so it is important to be familiar with them.

In addition to these terms and conditions, we post our personal information processing policy.

The Privacy Policy is not included in these Terms and Conditions, but we recommend that you read it to better understand how to update, manage, export, and delete information.

Content in PURESOME services.

Privacy Policy

- Information PURESOME collects

When you create a PURESOME Account, you provide us with personal information that includes your name and a password. You can also add a phone number or email, location to your account.

We also collect the content you create or receive from others when using our services.

The information we collect includes unique identifiers, browser type and setting, device type and settings, operating system, mobile network information including carrier name and phone number, and application version number. We also collect information about the interaction of your browsers, and devices with our services, including IP address, crash reports, system activity, and the data, time and referrer URL of your request.

- Your location information

We collect information about your location when you use our services, which helps us offer features like water source.

Your location can be determined with varying degrees of accuracy by:

- GPS and other sensor data from your device
- IP address
- Information about things near your device, such as Wi-Fi access points, cell towers, and Bluetooth-enabled devices

FAQ

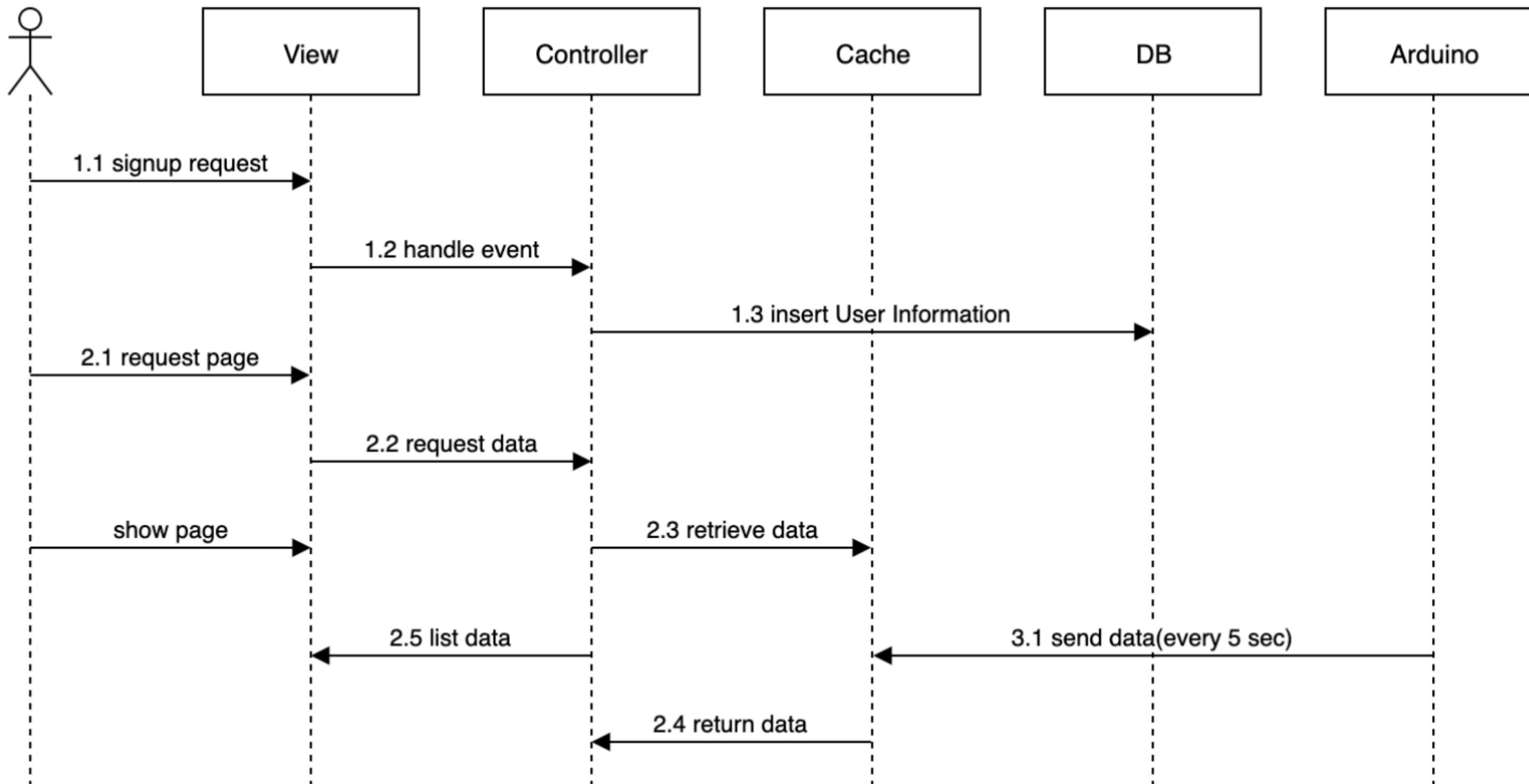
Why is my account associated with a city?

If my location has changed due to reasons like moving, how can I update my location?

How does PUSSONIC protect my privacy and keep my information secure?

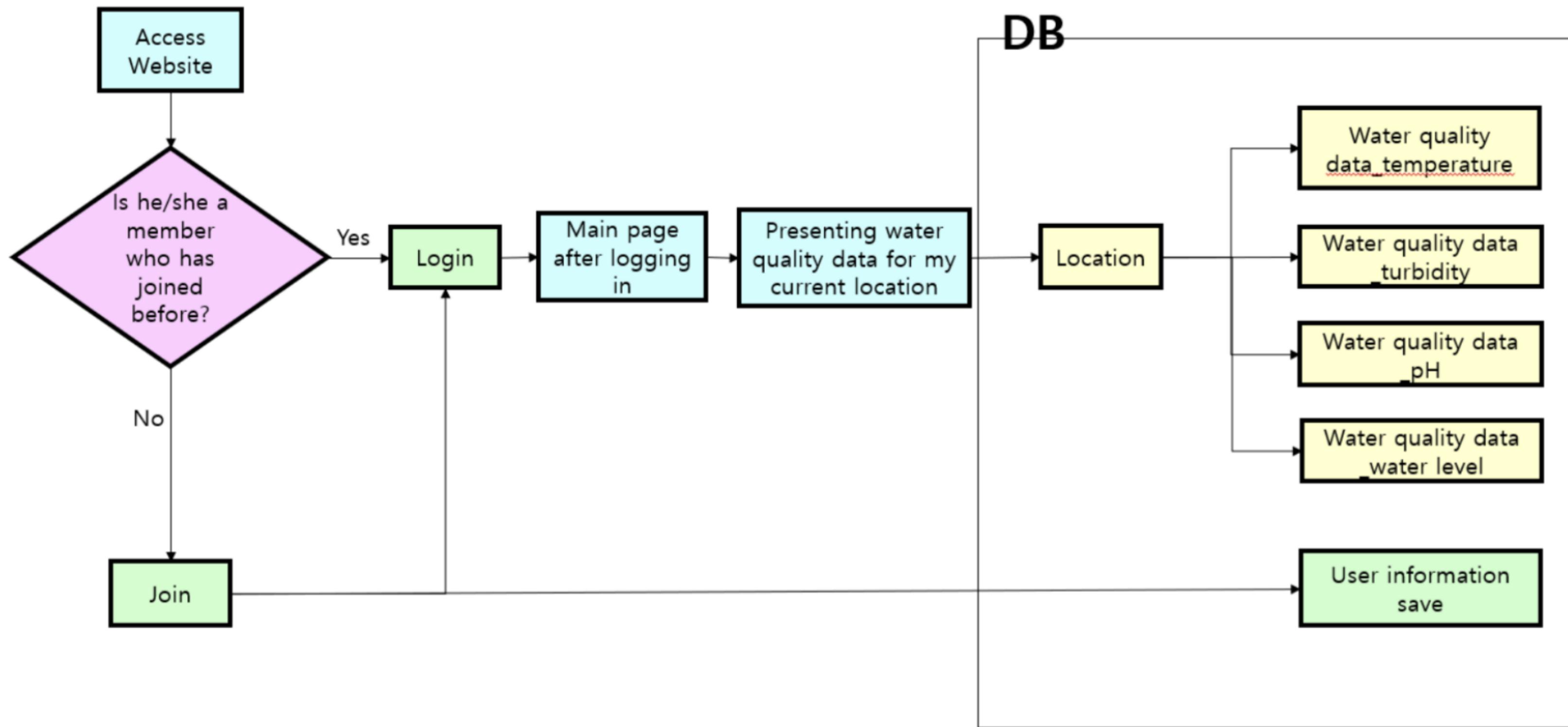
Can you tell about the process of data deletion and whether data completely disappears when deleted.

Sequence Diagram

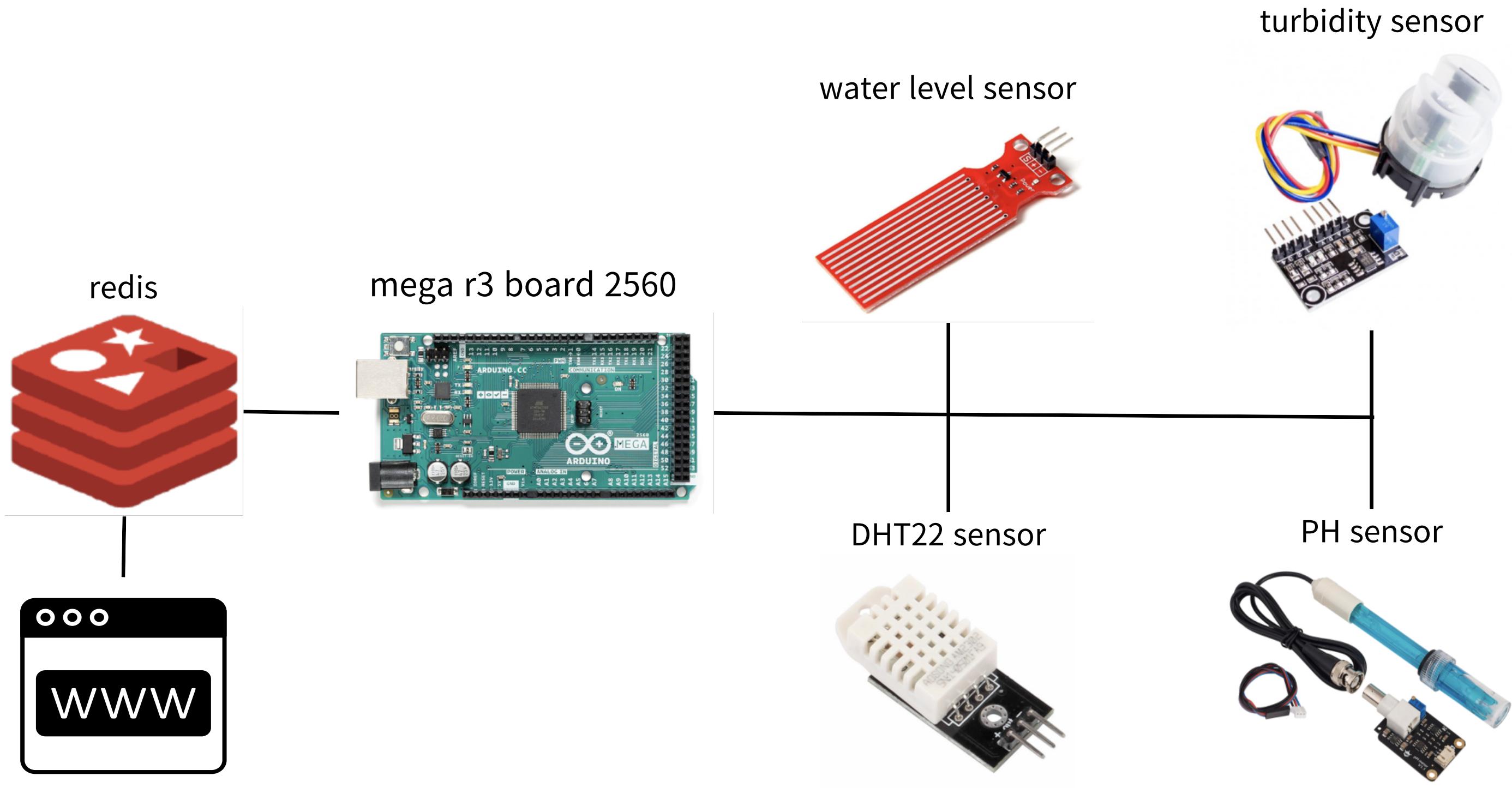


12 _____

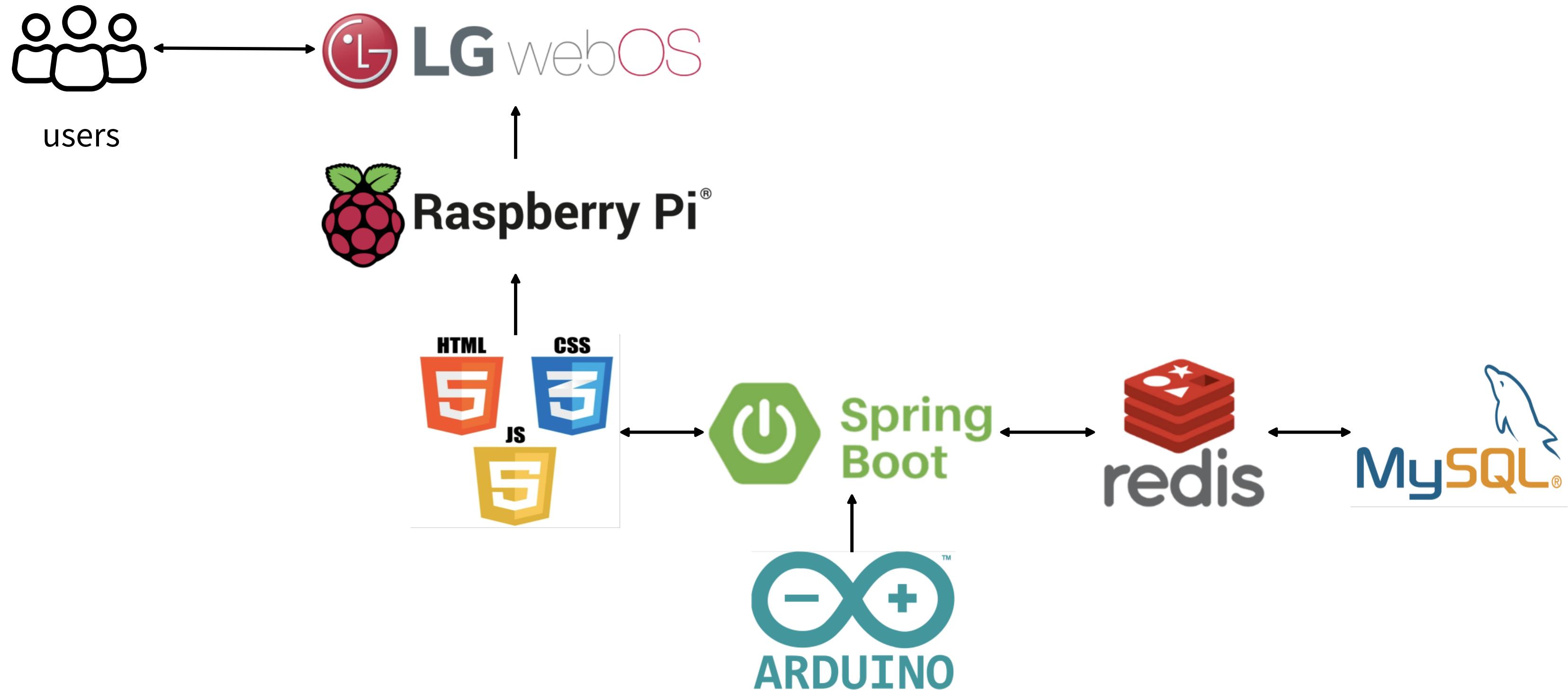
Flow Chart

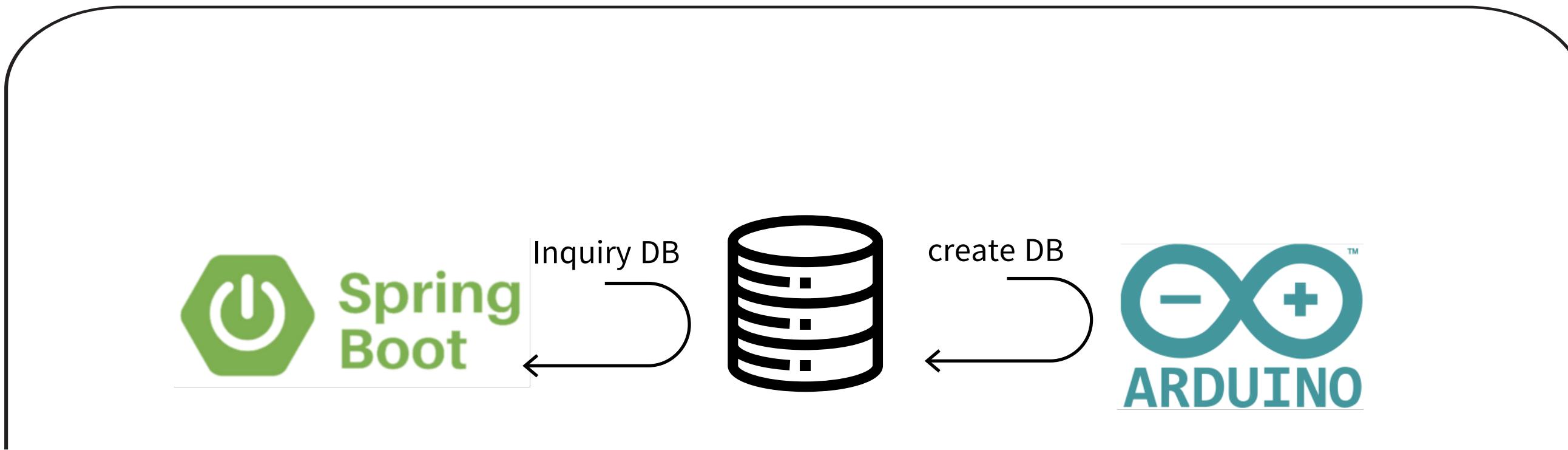


Water Quality Management System

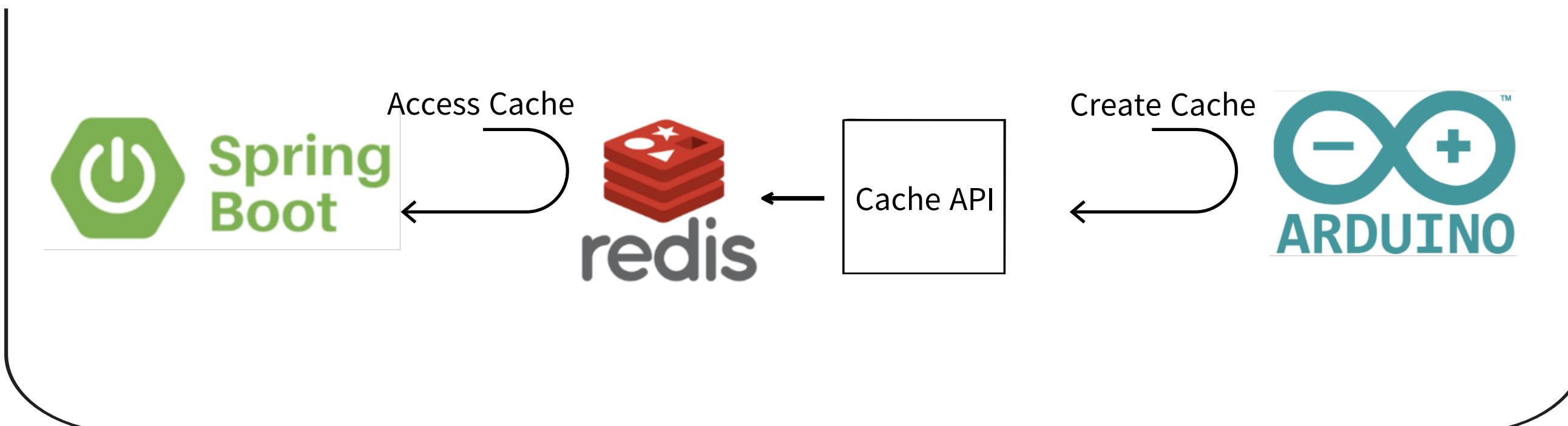


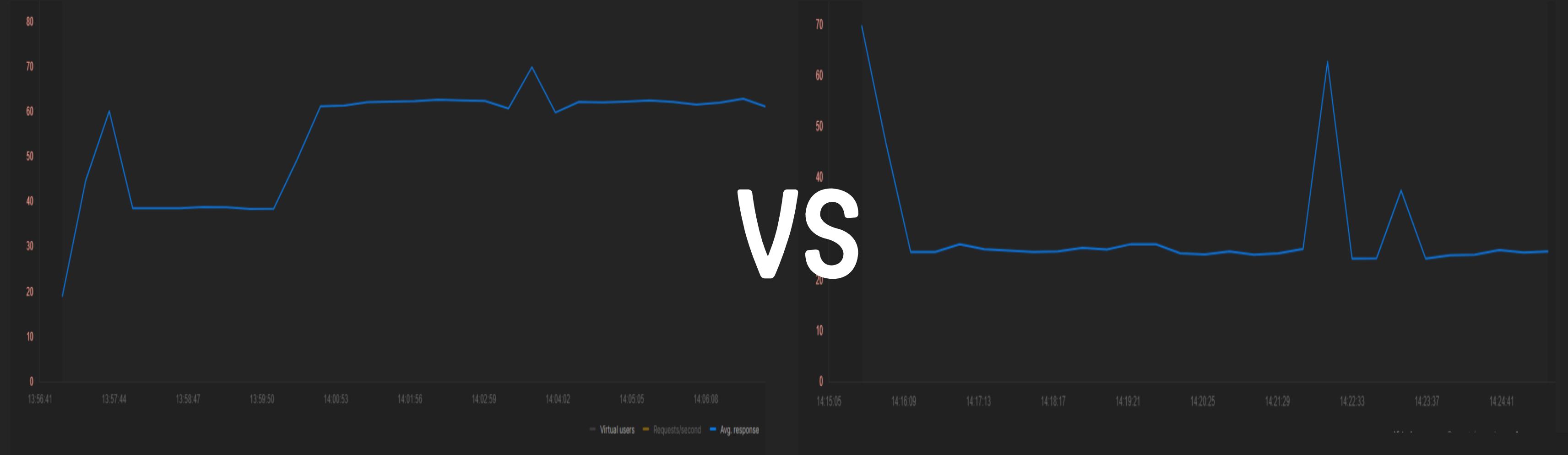
System Architecture





VS





27 s
DB

X 13.5



2 s
Redis

15

Tech Stack

Front-end



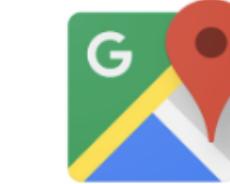
Back-end



Tools



Etc



Google Maps API



Outcomes

Outcomes

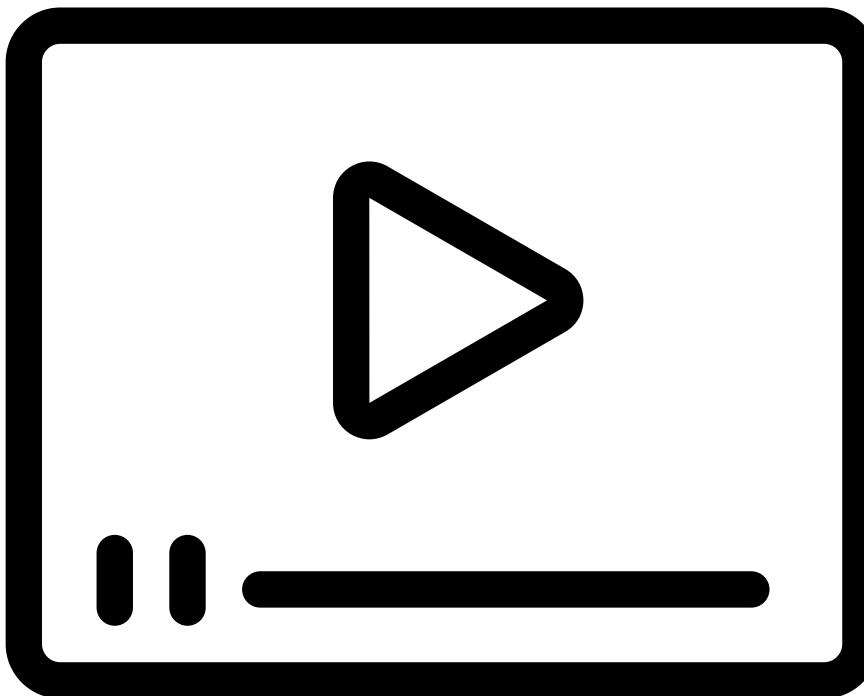
We will show you a demonstration video
of sensors implemented using Arduino.

demonstration

We will show you how to provide an
alarm based on direct sensor
measurements

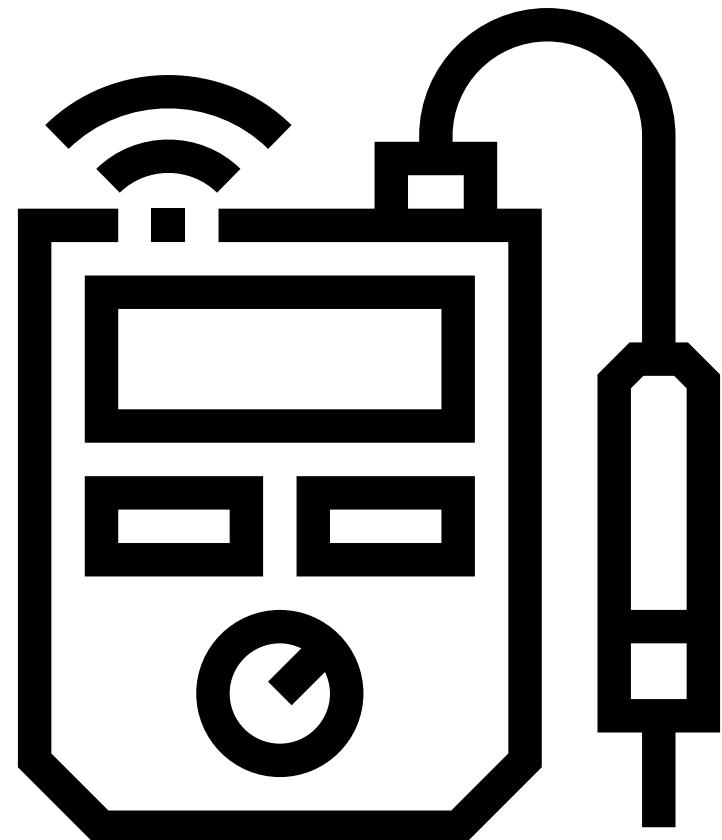
16 —

Video



17

demonstration





Expected Benefits

Benefits

I will explain the potential applications of this service.

Expected benefits



PURE SOME

Timely Response to Water Contamination

Improved Water Quality Management

Sustainable Water Resource Utilization

Public Health Protection

Regulatory Compliance

Expected benefits



PURESOME



Expected benefits



PURE SOME



team1

Thank You

LGSI_Project

03/Jan/2023 ~ 25/Jan/2023

team1

Presenter : Seonju Hong, Heonjae Kim