



सत्यमेव जयते

## Ministry of Water Resources, River Development and Ganga Rejuvenation

| Idea / Approach Details   |   |                            |              |
|---------------------------|---|----------------------------|--------------|
| <b>Ministry:</b>          | Water Resources, River Development and Ganga Rejuvenation | <b>Problem Code:</b>       | #MWR5        |
| <b>Problem Statement:</b> | Awareness on Arsenic contamination in ground water        | <b>AICTE Institute ID:</b> | 1-3325309202 |
| <b>Team Leader:</b>       | V. Kethareswaran  |                            |              |

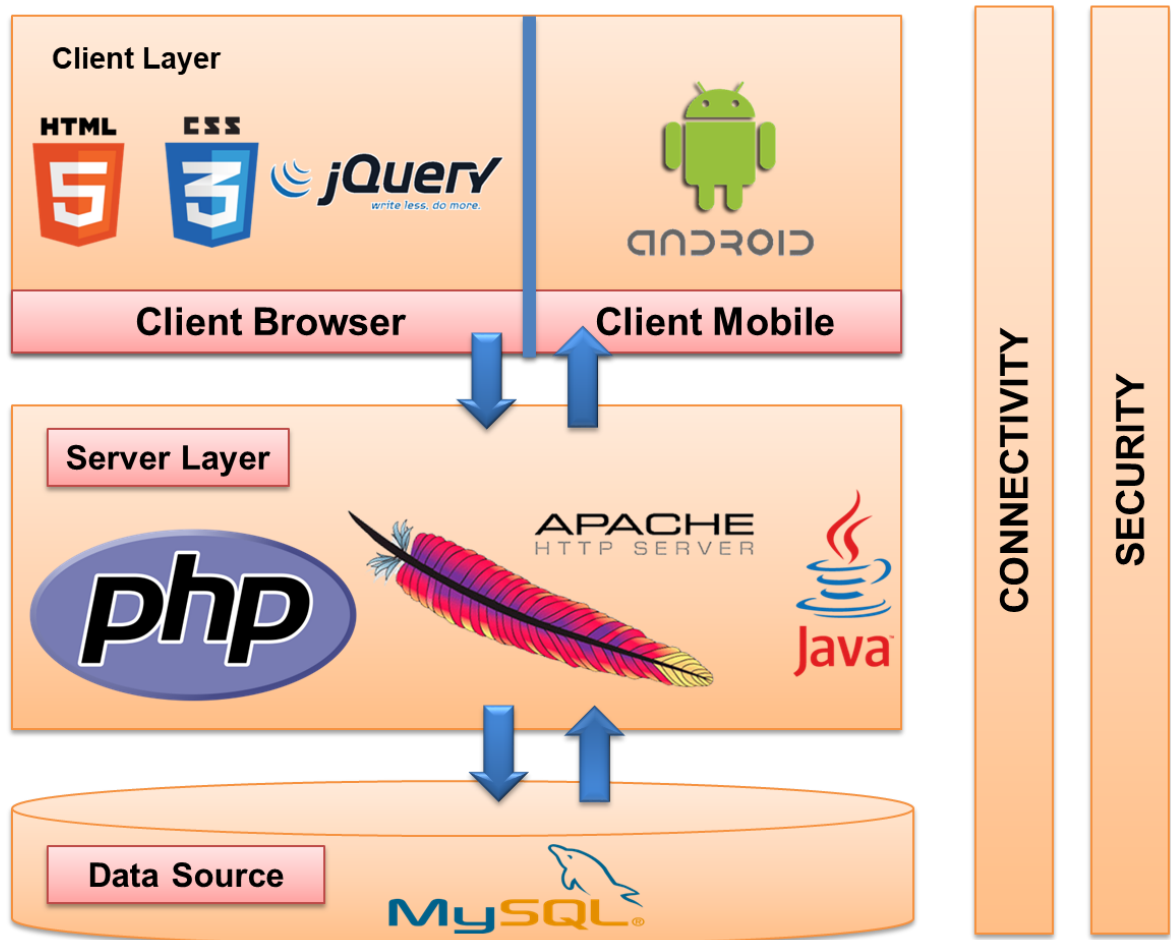
### **Idea: Creation of hybrid application – National Groundwater Arsenic Monitoring network**

The idea is to develop a website as well as a mobile application to create awareness about arsenic contamination in ground water with the available data provided by the central ground water board. Also the grievances met out in this regard & various schemes initiated by central ground water board in providing quality drinking water will be advertised.

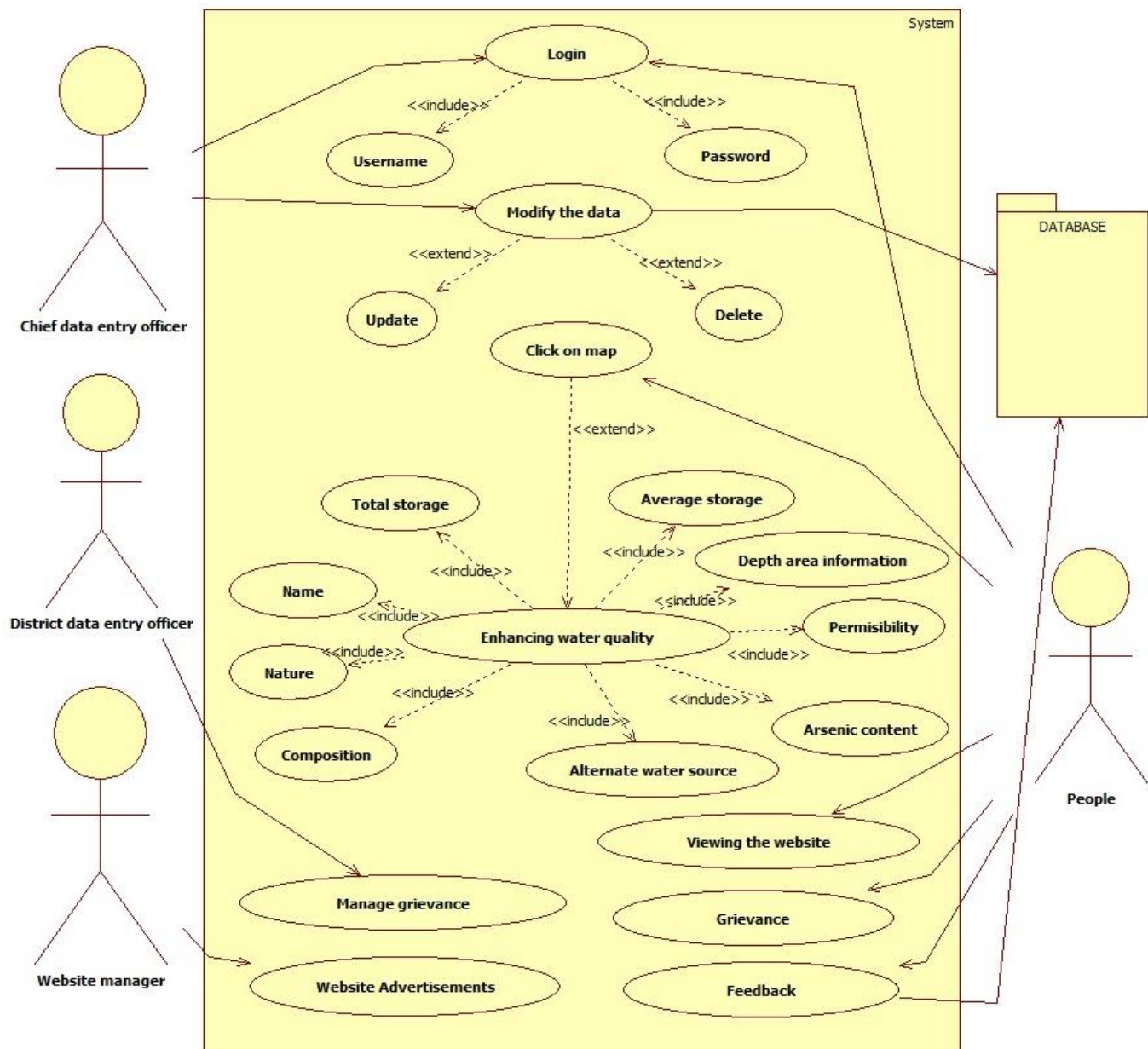
### **Solution / Prototype:**

- Central Ground Water Board (CGWB) is monitoring groundwater quality annually as well as in special studies for arsenic contamination.
- Public to be made aware of the effects upon using arsenic contaminated water for drinking and irrigation purposes.
- Thus we need to develop a website as well as a mobile application to create awareness about arsenic contamination in ground water.
- The website will host a login for every CGWB office situated at district headquarters of various states wherein the accessed water quality data can be entered for public display.
- Also a grievance portal for public to report any adverse effects due to groundwater contamination will be available.
- Actions initiated against grievances will be displayed in the webpage/app.
- Details on arsenic contamination such as effects, causes, symptoms, precautionary measures will be made aware via the web page/app.
- Various schemes initiated by central ground water board in providing quality drinking water will be advertised.
- Nationwide data can be accessed in open by the public.
- A click on the map specific location will display the link about that district where the recorded data can be viewed.

# Technology Stack



## USE CASE DIAGRAM:



### Dependencies:

Data Provided upon Annual & Specific Surveys of Arsenic Contamination in Ground Water by Central Ground Water Board (CGWB).

## UX / UI (Sample):

