Organization name: Central Warehousing Corporation

Problem Statement: Auto Climate Monitoring System

Team Name: Alchemist

Team Leader Name: Mr. Aditya mahajan

College code: SGGS

Our Solution

We would be using ML and IoT based solution. The IoT part would contain sensors which would log the data to the server which would be updated to the server and on the Dashboard. Where we would do the ML based processing on the data. This would give us the exact idea about our warehouse situation. We are also adding a camera module which would also help in processing the parameters intelligently

Technology Stack

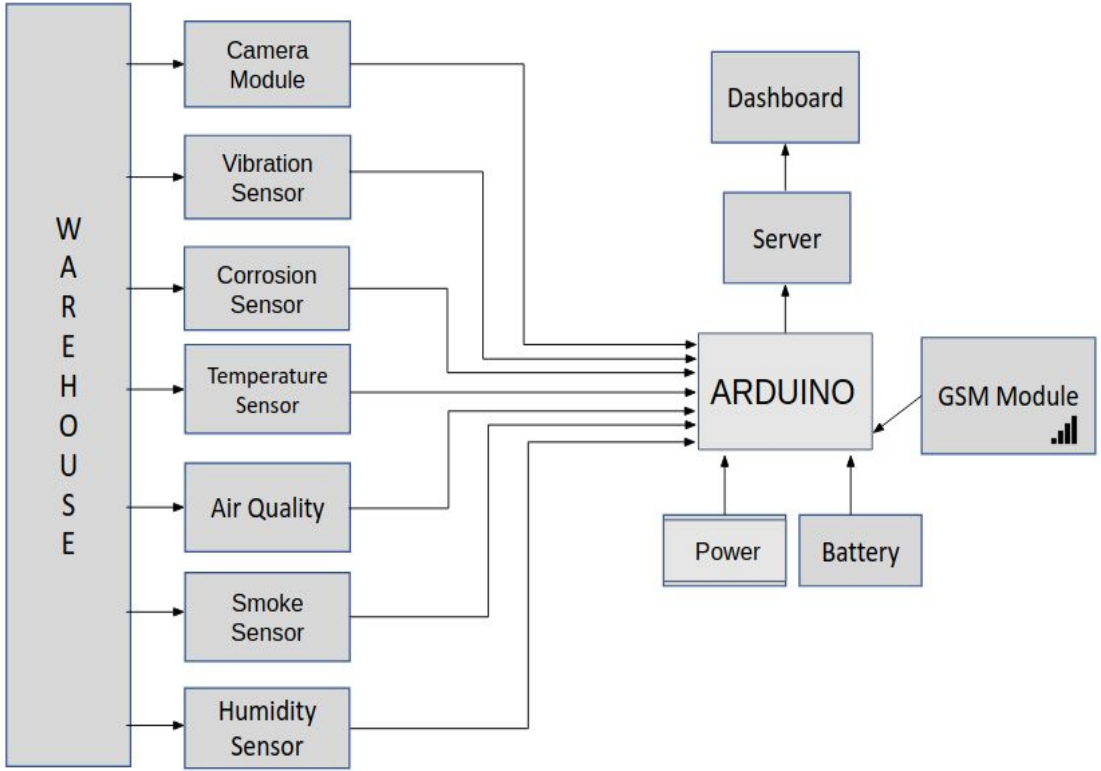
- Tensorflow (ML application)
- Python
- MDBootstrap (web App)
- Firebase (Database)
- YOLO (Image Processing)
- Arduino (Microcontroller)

Stoppers

- Power Cut Off
- No data after -module damage
- Pricing for firebase.

Use cases

- Useful when problem that occurs at the warehouse and the CWC officials will be informed immediately.
- ML predictions would be made available.
- Real Time Dashboard helps in comparing parameters.
- Natural Calamity would be informed like earthquake, fire, etc.



Differences In current solution and our solution

- There are some solutions like https://www.ironmountain.com/resources/data-sheets-and-brochures/c/climate-controlled-records-storage-solutions
- They do not take all parameters into consideration.
- We will be providing ML based recommendations which they do not have.
- We will also be using Image processing.
- Natural Calamity would be informed to the required offices and CWC.
- Complete features in the web-app, so is accessible anywhere in the world.