Networked Farming (SL2b-12)

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Introduction
Assume you are doing the fish farming business, for example, temperature and pH value of the water, strength of current, etc. which are the critical parameters that can affect your production quality of your business. By using an appropriate setup of parameters, the health of the different freshwater and marine organisms can be achieved.

Aim and Objective
Our aim is to build and design an online fish farming management system. Also, the objective is to build and provide an environment for fish farming that will not be affected by the polluted water in the ocean and will make use of currently underutilized industrial land.

Figure 1: online aquarium and real aquarium

Our design will monitor and control the farm environment for example, the temperature, humidity, pH value and luminosity of the environment (simulation of sunlight) of a fish farm. We will then design a system to control these elements remotely (i.e., internet, web server, etc.).

Result:
In this project, all the programming development was the same as expected. Our management system able to monitor temperature change, ultrasound distance, pH value of the water. Users can easily observe this data from website and android apps/webpage apps. Also, using wireless Webcams can help to view a remote video over the Internet.