İoT Based Garden Monitoring System

OUR TEAM

Team name

3Badam

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What Is Our Project About?

Gardening is a delightful hobby and important work for humanity, but it can be a chore and one particularly bothersome job is watering the garden. Water it too often and the plants can die, too little and they can also die! But surely technology can offer a solution to this age old problem?

Well yes it can. One of the primary objectives of this project was to be able to maintain the well-being of a garden using the power of the Internet of Things (IoT).

Goals of The Project

Easy Control

Giving the gardener easy to use system for monitor their plants

Accesibility

The gardener can control their plants 24/7 wherever they are.

More Accurate Care

With this system your gardens are controlled by humidity, temprature like control system and this gave us more accurate care

Let`s talk about Users and their needs

There are 2 types of user in the project.

User (Gardener)

User role means is, the user can control and monitor

System Designer

System designer means: Who is the build the monitor system technically

User (Gardener)

- ## Acsess to control panel:

  User must install the water gardening application via google play store for control all the features.

- ## Monitoring the plant:

  Monitoring running by sensors which is temperature, Humidity, and the camera

- ## Automatic watering:

  Watering according to the humidity value or temprature

System Designer

Create System

Design and create system for user custom needs

Technical Support

Give technical support and check the system working in every month or when user need

Main Functional Requirements

- **User (Gardener)**
  - Get temperature value:
  - Check amount of water:
  - Read humidity value of plant:
  - Take a photo once a day

Main Non-functional Requirements

- #Application must be simultaneous
- #Controlling must be understable and easy.

Strategies

Product Backlog and Sprint Planning Strategies

- Client requests and system requirements must be analyzed
- Analyses that have been done, must be converted to stories.
- Priority and size of stories must be specified
- According to the priority and size, stories must be actualized initially

Strategies

Product Backlog and Sprint Planning Strategies

- Meetings must be organized regularly. These meetings must be organized separately within the client and the team.
- The tasks that team members supposed to do must be specified
- The time that given to sprints must be complied

What Have We Learned?

1. The time should be determined according to the knowledge of the team members
2. Provide continuous contact with the customer during the planning phase
3. Product demos must be illustrated to customer at regular intervals.
4. Team members always need each other.

What Have We Learned?

- Provide continuous contact with the customer during the planning phase
- Clientrequests must be analyzed well, and the system must be improved with these requests
- Team members must be kept to the agreements with client.

That`s all for Now

Thanks for listening and attending