

MEETING MINUTES – Real Time Soil Moisture Monitoring System – Group 02

Date of Meeting: 09/08/2024

Location: F2F CSSE 207

Chairs: Asad Maza

Minutes Prepared By: Asad Maza

1. Purpose of Meeting *(add rows as necessary under banner headings)*

Team Meeting 3 –Client Meeting Debrief and Planning: 12:00AM – 13:00PM

The purpose of this meeting was to debrief on the client's second meeting and to plan the next steps in the project. The discussion focused on refining the ideas and scopes defined in the client meeting.

2. Attendance at Meeting

Name	Department / Division	E-mail	Phone
Asad Maza	MIT – Group 2	21211711@student.uwa.edu.au	N/A
Bella Bao	MIT – Group 2	23843181@student.uwa.edu.au	N/A
David Shang	MIT – Group 2	24071326@student.uwa.edu.au	N/A
Dharani Kumari Nagali	MIT – Group 2	23870369@student.uwa.edu.au	N/A
Hanni Bao	MIT – Group 2	23888818@student.uwa.edu.au	0484590539
Udaymithra Kalla	MIT – Group 2	23858856@student.uwa.edu.au	N/A

3. Meeting Agenda

Team Meeting 3 –Client Meeting Debrief and Planning: 12:00AM – 13:00PM

1. Debrief of Client Meeting
2. Scope out Problem
3. Identify Next Steps

4. Meeting Notes, Decisions, Issues

Team Meeting 3 –Client Meeting Debrief and Planning: 12:00AM – 13:00PM

Continuation of Team's Tasks:

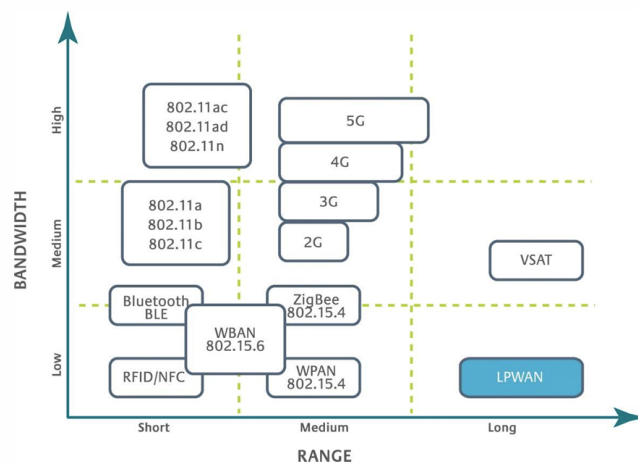
- David on Problem Statement
- Bella on Quantifying Impact
- Uday/Dharani on Initial Research into Components
- Assigned to John Deere

Requirements

- Number of devices needed
 - Distance between devices
 - Data collection frequency and type
 - Authentication, encryption, device setup, maintenance, and disposal
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Discussed Solution Components:

1. Overall Considerations:
 - a. Authentication of device
 - b. Encryption (at rest vs in transit)
 - c. Device and Software Setup + Calibration (Testing and Validation)
 - d. Maintenance
 - e. Deployment
 - f. Retrieval
 - g. Disposal
2. Physical Hardware Device:
 - a. Soil Moisture Sensor(s)
 - b. Microcontroller
 - c. Power Storage
 - d. Power Management
 - e. Power Generation
 - f. Communication Transceiver (how do we decide which one) – depends on transmission/communication pipeline
3. Transmission Pipeline (can we create a diagram, horizontal axis)
 - a. Between devices (node to node)



Discuss next steps & Book in next meeting

Outline of next steps including further research and meetings ,and including our first deliverable and troubleshooting to John Deere account issues

5. Action Items

Action	Assigned to	Due Date	Status
Project Timeline	Asad Maza		Completed
Make UWA account for John Deere	Asad Maza		Work In Progress
Meeting invite with Rachel	Asad Maza		Completed
Problem Description	David		Work In Progress
Quantifying Impact	Bella		Work in Progress
Identifying Stakeholders			Work in Progress
Identifying Hardware and Software Requirements of Solution	Uday/Dharani		Work in Progress

6. Next Meeting

Date:	14/08/2024	Time:	11:30AM	Location:	Barry J Multimedia Room 4
Agenda:	Communicate with our 1st deliverable. The plan of meeting with the client to "demonstrate our prototype and for them to approve project documents", feedback of our last week work process				