sdmay23-17: CySecAgri
Week 3 Report
October 8 - October 14

Team Members
Tom Ruminski — *IoT Infrastructure*
David Wolfe — *IoT Infrastructure*
Joe Hunter — *Flutter Application*
Rian Lamarque — *AWS Infrastructure*
Elijah Hanson — *AWS Infrastructure*
Syed Al-Hussain — *Flutter Application*

Summary of Progress this Report
Devices selected for IoT infrastructure
    Node - Pre-built sensor
    Gateway - RaspberryPi and LoRaWAN Transceiver breakout board
    Network server - AWS IoT Core
Communication protocols selected between components
    LoRa/LoRaWAN and WiFi+TCP/IP

Pending Issues
Need to obtain a RaspberryPi

Plans for Upcoming Reporting Period
Research how to configure LoRaWAN transceiver with a RaspberryPi
Order parts for further development

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Tom Ruminski	identified appropriate network topologies, physical communication layers, and devices to support our selected IoT design	8	
David Wolfe	Finished coding a very basic connection between our python mock basestation and the AWS IoT Core. Helped select IoT sensors to support architecture decisions.	6	
Joe Hunter	Created a Gantt chart for the team, worked on the project plan, and continued to work on the Flutter app.	4	

Rian Lamarque	Created IAM group with individual users to work under the same account. Deployed IoT Core test basestation to simulate sending of messages to lambda function.	6	0
Elijah Hanson	Used AWS IoT core to make a test basestation that used a python script to send MQTT messages to the cloud	6	0
Syed Al-Hussain	Researched IoT applications and more Flutter learning	4	0

Gitlab Activity Summary
Nothing to report.