Team Name : PipeWan

Date of Submission : 02/20/22

Meeting Date & Time : 02/16/22 02:00 pm & 02/13/22 11:15 am

Meeting Location : Teams

Meeting Duration : 1.5 hrs & 1.5 hrs

|  |  |  |
| --- | --- | --- |
| Team Members | X = Present | Notes |
| Mohammad Daoud | X |  |
| Edgar Chavez | X |  |
| Aron Wiley | X |  |
| Alex Rossillon | X |  |

# Progress

Team accomplishments for the week

This week we worked on connecting the SparkFun Pro RF to the LoRaWan network along with continuing to improve the PC application and SparkFun code. Connecting the SparkFun Pro to the LoRaWan network did not work this week because of permission issues with the account that we have access to.

Individual contributions

*A brief narrative (1-3 sentences) made by* ***each team member*** *summarizing their respective activity for the past week.* ***NOTE:*** *Missing the meeting without advanced notice, making no contributions to the meeting, or missing two team meetings could result in a zero for any team assignments.*

Mohammad

This week I worked with the team on connecting our node to the LoRaWan network on campus. Unfortunately, our plan didn’t work because of permissions issues blocking us from connecting to the network server. I also did research on the possible ways to connect two lithium ion batteries to our node in tandem.

Edgar

This week I started designing our mysql database, as well as using our application to connect to our database. During this I found that we’ll need switch our application to WPF app for .NET to be able to use mysql. I also looked into creating a login page for our application.

Aron

This week I worked on connecting the SparkFun Pro to the LoRaWan network, we ran into an issue with account permissions. Our account did not have enough permission to add it to the network, we are currently working to fix this.

Alex

This week I met with the team to try and connect our node to the LoRaWan network in the JBC. I looked more into making the graphs look and feel better and decided on paging the graphs (e.g. last hour, last day, last month, etc). I also started looking into pulling data from the serial socket to the tcp/ip that we will eventually use once we are connected to a LoRaWan server. Lastly, I looked into creating unit tests in c# .Net.

# Project Tracking

*Tasks which are actively being worked on.*

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Assignment | Due Date | % Complete |
| Mohammad | Wait for instructions from Coach Allen regqrding our account, then retry connecting the node. Research and obtain suitable battery relays. | 2/27 | 20% |
| Edgar | Create SQL database, features, and integrate to our application. | 2/26 | 0% |
| Aron | Update LoRaWan connection and get SparkFun Pro RF connected. Help update computer program. | 2/25 | 20% |
| Alex | Makes graphs scroll & zoom. Make sure graphs don’t slow down with >1000 datapoints. Change Max/Mins on the axis based on the highest and lowest received values. Implement way to clear. | 2/16 | 85% |

# Plan

*Future work. A brief description of the tasks and activities the team needs to accomplish over the coming weeks. As team members pick up assignments, move from this table to the tracking table. Consider future work a running task-list with an expected due date for completion.*

|  |  |
| --- | --- |
| Assignment | Due Date |
| Connect SparkFun Pro RF to LoRaWan network | 2/27 |
| Research and choose a solution for backup batteries | 2/27 |
| Create SQL database on server | 2/20 |
| Continue improvements for UI | 2/20 |
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# Issues

*Include a brief description of issues the team has encountered, and potential resolutions for the issues. If the team would like staff to help with the issues, this is the appropriate place to request assistance.*

Unable to connect to GoCreates LoRaWan server. Sponsor is aware of the issue, and we are both working on contacting the students who have control over account privileges.

# Next Meeting

Date & Time : 2/16/22 2:00 pm

Location : Jonh Bardo Center