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|  | **Weekly Team Task Report** | **17** |

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| Team: Team Lora | | | | | | **Date: 2/17/20** | | |
| **Project Title: Mobil Crowdsensing Framework Over Low-Power Wide Area Networks** | | | | | | | | |
|  | Ryan  Present  On-time |  | Mohammed  Present  On-time |  | Benjamin  Present  On-time | |  | Brandon  Present  On-time |

### Recent Meetings:

* Team Meeting (2/11/20) Team meeting via Discord. Discussed tasks for the upcoming week, worked on revising the software design document.
* Team Meeting (2/14/20) Met to troubleshoot bugs in configuration service and LoRaMessenger

### TASKS COMPLETED since the last meeting:

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| **Task Title: Implement Basic Proxy Server Loop** | **Task Initiation:**  1/30/20 | **Orig. Due Date:**  2/7/20 | **Status:** Completed |
| **Who (%): Benjamin (100%)** | | | |
| **Description:** Implement the basic server loop functionality of the proxy server, including its ability to spool off a new thread for each newly received message. | | | |
| **Expected Outcome:** The server can run, receive a message, and spool off a new thread which can identify it as a new thread. | | | |

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| **Task Title: Create Software Design Document Draft** | **Task Initiation:**  1/23/2020 | **Orig. Due Date:**  2/5/2020 | **Status:** Completed |
| **Who (%): Ryan (25%) Mohammed (25%) Benjamin (25%) Brandon (25%)** | | | |
| **Description:** Create a draft of the software design document. | | | |
| **Expected Outcome:**  Turn in the completed draft of the software design document to Benjamin for editing. | | | |

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| **Task Title: Edit the Software Design Document** | **Task Initiation:**  1/23/2020 | **Orig. Due Date:**  2/7/2020 | **Status:** Completed |
| **Who (%): Ryan (20%) Benjamin (60%) Brandon (20%)** | | | |
| **Description:** Edit the software design document to make the voice consistent. Proofread the result. | | | |
| **Expected Outcome:**  Turn in the completed, edited draft of the software design document to Scooter.. | | | |

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| **Task Title: Revise Software Design Document Draft** | **Task Initiation:**  2/10/2020 | **Orig. Due Date:**  2/15/2020 | **Status:** Completed |
| **Who (%): Ryan (25%) Mohammed (25%) Benjamin (25%) Brandon (25%)** | | | |
| **Description:** Revise the draft of the software design document based upon the feedback given to us by Scooter. | | | |
| **Expected Outcome:**  Be able to check off all of Scooter’s comments. Turn in the completed, revised draft to Scooter. | | | |

### This week’s Tasks: Work plan for the coming week

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| **Task Title: Implement Configuration Service** | **Task Initiation:**  1/30/20 | **Orig. Due Date:**  2/7/20 | **Status:** In-Progress  30% Completed |
| **Who (%): Brandon (100%)** | | | |
| **Description:** Implement a prototype of the configuration service | | | |
| **Expected Outcome:** The configuration service prototype can be given a formatted JSON file and return a proper encoding table as a JSON file. | | | |

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| **Task Title: Create Wiki For Documentation** | **Task Initiation:**  2/10/20 | **Orig. Due Date:**  2/17/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ryan (25%) Mohammed (25%) Benjamin (25%) Brandon (25%)** | | | |
| **Description:** Create the start of the Wiki for our project. | | | |
| **Expected Outcome:** A github wiki for our github project that explains how to use our code. | | | |

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| **Task Title: Implement Android Device to LoRa Node Connection** | **Task Initiation:**  1/30/20 | **Orig. Due Date:**  2/17/20 | **Status:** In-Progress  60% Completed |
| **Who (%): Ryan (50%) Mohammed (50%)** | | | |
| **Description:** Getting connection between the library and the lora node via kotlin connection. | | | |
| **Expected Outcome:** A connection is created. | | | |

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| **Task Title: readEncodingTable()** | **Task Initiation:**  2/16/20 | **Orig. Due Date:**  2/29/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ben (33%) Ryan (33%) Brandon (33%)** | | | |
| **Description:** A function that reads the lookup table and translates strings into byte strings. | | | |
| **Expected Outcome:** usable lookup table that works before spring break and works with encodeFromTable function. | | | |

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| **Task Title: encodeFromTable()** | **Task Initiation:**  2/16/20 | **Orig. Due Date:**  2/29/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ben (33%) Ryan (33%) Brandon (33%)** | | | |
| **Description:** A function that encodes the message based on the lookup table parameters. | | | |
| **Expected Outcome:** Encoded message ready to be sent to the loRa Node. | | | |

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| **Task Title: Secure Proxy Server’s Connections** | **Task Initiation:**  2/8/20 | **Orig. Due Date:**  2/29/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ben (100%)** | | | |
| **Description:** Ensure that the packets being transmitted to and from the proxy server are properly encrypted, and that the server validates all connections made to it. | | | |
| **Expected Outcome:** Demonstrate that the packets transmitted to and from the proxy server are encoded, show a connection without proper certification be refused | | | |

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| **Task Title: Design Review 2 Presentations** | **Task Initiation:**  2/17/20 | **Orig. Due Date:**  2/25/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ryan (40%) Ben (20%) Brandon (20%) Moe (20%)** | | | |
| **Description:** Create the Google Slide with all the information for the presentation. | | | |
| **Expected Outcome:** A ready to go presentation for our Design Review. | | | |

### Upcoming Tasks: Planning

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| **Task Title: handleMessage()** | **Task Initiation:**  2/24/20 | **Orig. Due Date:**  3/7/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ben (100%)** | | | |
| **Description:** A function for the Proxy Server designed to handle the messages being received. | | | |
| **Expected Outcome:** A basic function that can handle the messages received. | | | |

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| **Task Title: sendLoRaMessage()** | **Task Initiation:**  2/16/20 | **Orig. Due Date:**  3/14/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ryan (50%) Mohammed (50%)** | | | |
| **Description:** A function that sends the "message" to the lora node. | | | |
| **Expected Outcome:** A basic function that can send a message to the lora node. | | | |

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| **Task Title: testing and finalizing LoRaMessenger Library** | **Task Initiation:**  3/8/20 | **Orig. Due Date:**  5/1/20 | **Status:** In-Progress  0% Completed |
| **Who (%): Ryan (25%) Mohammed (25%) Benjamin (25%) Brandon (25%)** | | | |
| **Description:** This is the part where we perfect our code and make our project run smoothly and remove any issues we find. This might also include adding more functionality to our project. | | | |
| **Expected Outcome:** Polished and finalized android library. | | | |

### Other Problems / Other Issues: