

The scrum leader for each week was determined by a pseudorandom online selector, which explains why some people were scrum leaders more often. Since we only had a limited number of weeks, these differences in scrum leader frequency may be more pronounced.

Jan. 19th, 2021

Ihsan Olawale (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Quartus up and running, began tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Couldn't find missing VHDL file in tutorial 1.2</li></ul>
	Tasks for Today <ul style="list-style-type: none"><li>• Come up with project ideas</li><li>• Go through 1.2 carefully, and ensure VHDL is chosen at appropriate stages</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Read through tutorials, but didn't implement them</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Interdependencies between tutorials</li></ul>
	Tasks for Today <ul style="list-style-type: none"><li>• Begin implementing tutorials in order via Quartus/Eclipse</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Finished up to tutorial 1.7</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>

	<p>Tasks for Today</p> <ul style="list-style-type: none"> <li>• Finish tutorial 1.8 and 1.9</li> <li>• Come up with project ideas</li> </ul>
Jason Bai	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Every tutorial except 1.2, 1.3, and 1.5</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks for Today</p> <ul style="list-style-type: none"> <li>• Complete tutorial 1.2/1.3/1.5</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Started the tutorials</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks for Today</p> <ul style="list-style-type: none"> <li>• Continue tutorials</li> <li>• Idea generation</li> </ul>

Jan. 21th, 2021

Ihsan Olawale(Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Tutorial 1.2 done, debugged WSL problems and improved reading comprehension</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Continue tutorials</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Tutorial 1.2/1.3</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Complete tutorials by end of week</li><li>• Idea generation/selection/elaboration</li><li>• Help Jason with 1.3</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Finished all tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Implement TA suggestions and work on proposal</li></ul>

Jason Bai	Accomplished: <ul style="list-style-type: none"> <li>Finished tutorial 1.2</li> </ul>
	Road blocks: <ul style="list-style-type: none"> <li>Tutorial 1.3 not loading for some reason</li> </ul>
	Tasks: <ul style="list-style-type: none"> <li>Fix tutorial 1.3</li> </ul>
Zane Frantzen	Accomplished: <ul style="list-style-type: none"> <li>Tutorial 1.2 mostly done</li> </ul>
	Road blocks: <ul style="list-style-type: none"> <li>None</li> </ul>
	Tasks: <ul style="list-style-type: none"> <li>Over the weekend, finish up the tutorial</li> </ul>

Jan. 26th, 2021

Daniel Ng (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Basically nothing</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Project proposal</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Completed all tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Project proposal</li></ul>
Ihsan Olawale	Accomplished: <ul style="list-style-type: none"><li>• Completed all tutorials</li><li>• Created skeletons for proposal and requirements doc</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Project proposal</li><li>• Divide up tasks</li></ul>

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>Completed all tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>Project proposal</li></ul>
Zane Frantzen	Accomplished: <ul style="list-style-type: none"><li>Completed all tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>Project proposal</li></ul>

Jan. 28th, 2021

Daniel Ng (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Research some encryption algorithms</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Refine project proposal</li><li>• Draw UML diagram for encryption algorithm</li><li>• Investigate how to generate random numbers in DE1 using verilog</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Worked on drawing hardware diagram</li><li>• Looked at RFS documentation</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Project proposal</li><li>• Look more into RFS documentation</li></ul>
Ihsan Olawale	Accomplished: <ul style="list-style-type: none"><li>• Wrote software documentation and graphics design</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>



	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Differentiate the two designs (software aspect)</li> </ul>
Jason Bai	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Worked on drawing hardware diagram</li> <li>• Looked at RFS documentation</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Project proposal</li> <li>• Look more into RFS documentation</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Market and requirements document</li> <li>• Created mocks for the UI</li> <li>• Wrote major data structures <ul style="list-style-type: none"> <li>◦ Database</li> </ul> </li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Not entirely sure what data structures entails</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Refine data structures part of project proposal</li> </ul>

Feb. 2nd, 2021

Jason Bai (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Worked on hardware part of proposal</li><li>• Started looking at RFS documentation</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Finalize conclusion of proposal, handin deliverables due on Feb 3</li><li>• Make slides for presentation (on Feb 9)</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Worked on hardware proposal w/ Jason</li><li>• Worked on reading RFS documentation and manual</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Finalize conclusion of proposal, handin deliverables due on Feb 3</li><li>• Make slides for presentation (on Feb 9)</li></ul>
Ihsan Olawale	Accomplished: <ul style="list-style-type: none"><li>• Software functionality of proposal</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finalize conclusion of proposal, handin deliverables due on Feb 3</li> <li>• Make slides for presentation (on Feb 9)</li> </ul>
Daniel Ng	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Algorithms part of proposal</li> <li>• Comparisons between algorithms in conclusion of proposal</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finalize conclusion of proposal, handin deliverables due on Feb 3</li> <li>• Make slides for presentation (on Feb 9)</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Did own sections, sequence diagrams on proposal</li> <li>• Formatted proposal document</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finalize conclusion of proposal, handin deliverables due on Feb 3</li> </ul>

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|  | <ul style="list-style-type: none"><li>• Make slides for presentation (on Feb 9)</li></ul> |
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Feb. 4th, 2021

Jason Bai (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>Finished and submitted proposal, finished slides</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>Make script</li><li>Presentation at 1:30 PM on Tuesday Feb 9<ul style="list-style-type: none"><li><a href="https://ubc.zoom.us/j/61888564652?pwd=b2thanJ2NlV0OXcFN3dqQi9NMU1lUT09">https://ubc.zoom.us/j/61888564652?pwd=b2thanJ2NlV0OXcFN3dqQi9NMU1lUT09</a></li><li>Meeting ID: 618 8856 4652</li><li>Passcode: 278604</li></ul></li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>Finished and submitted proposal, finished slides</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>Make script</li></ul>
Ihsan Olawale	Accomplished: <ul style="list-style-type: none"><li>Finished and submitted proposal, finished slides</li><li>Assigned more tasks on github repo</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Write presentation script</li> </ul>
Daniel Ng	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished and submitted proposal, finished slides</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Write presentation script</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished and submitted proposal, finished slides</li> <li>• Uploaded logo to organization's avatar on github</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Write presentation script</li> </ul>

Feb 9th 2021

Andrew Chan (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Attended presentation</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Doing more planning<ul style="list-style-type: none"><li>◦ Flesh out what we need and how to connect them/configure them</li></ul></li><li>• Going through tutorials</li><li>• Break down milestone tasks and add to issues/trello</li></ul>
Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Attended presentation (and presented aesthetics of mockup)</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Doing more planning<ul style="list-style-type: none"><li>◦ Flesh out what we need and how to connect them/configure them</li></ul></li><li>• Going through tutorials</li><li>• Break down milestone tasks and add to issues/trello</li></ul>
Ihsan Olawale	Accomplished: <ul style="list-style-type: none"><li>• Attended presentation (and presented 5 layers)</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• APIs planning and documentation</li> <li>• Hosting <ul style="list-style-type: none"> <li>◦ Standalone?</li> </ul> </li> <li>• Investigate Postgres</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>
Daniel Ng	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Attended presentation (answered questions about AES)</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Write AES verilog</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Attended presentation (and spoke)</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish UI view in figma</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>



Feb 11th 2021

Andrew Chan (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Added github issues</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Doing more planning<ul style="list-style-type: none"><li>◦ Flesh out what we need and how to connect them/configure them</li></ul></li><li>• Going through tutorials</li><li>• Break down milestone tasks and add to issues/trello</li></ul>
Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Added github issues</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• n/a</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Doing more planning<ul style="list-style-type: none"><li>◦ Flesh out what we need and how to connect them/configure them</li></ul></li><li>• Going through tutorials</li><li>• Break down milestone tasks and add to issues/trello</li></ul>
Ihsan Olawale	Accomplished: <ul style="list-style-type: none"><li>• Added github issues</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• APIs planning and documentation</li> <li>• Hosting <ul style="list-style-type: none"> <li>◦ Standalone?</li> </ul> </li> <li>• Investigate Postgres</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>
Daniel Ng	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Started Python for AES <ul style="list-style-type: none"> <li>◦ For verification and reference</li> </ul> </li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Write AES verilog</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished UI mockup</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish UI view in figma</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>

Feb 16th 2021

Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Wrote a bit more for the software implementation and pushed</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Other work</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Do a lot more for AES Verilog implementation</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Started looking through RFS Manual</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Other work</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Doing more planning<ul style="list-style-type: none"><li>◦ Flesh out what we need and how to connect them/configure them</li></ul></li><li>• Going through tutorials</li><li>• Break down milestone tasks and add to issues/trello</li></ul>
Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Started looking through RFS Manual</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Other work</li></ul>

	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Doing more planning <ul style="list-style-type: none"> <li>◦ Flesh out what we need and how to connect them/configure them</li> </ul> </li> <li>• Going through tutorials</li> <li>• Break down milestone tasks and add to issues/trello</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Look at AWS, serverless</li> <li>• 20,000 requests per day</li> <li>• Pushed skeleton server code</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Look into AWS more and figure out how to exactly setup</li> <li>• Get testing and continuous deployment up</li> </ul>
Zane Frantzen (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished UI views in Figma</li> <li>• Generated list of tasks going forward</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish adding tasks to GitHub from generated list</li> <li>• Get some skeleton code going</li> </ul>

Feb 18th 2021

Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• None</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• AES software implementation</li><li>• Start getting Verilog AES implementation going</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Attempted module 2 tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• none</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Write QSYS</li></ul>
Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Attempted module 2 tutorials</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• none</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Write QSYS</li></ul>

Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Skeleton Express app running, found some frameworks</li> <li>• AWS account created</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Read through more documentation</li> <li>• Set-up CI/CD pipeline (deployment and tests)</li> </ul>
Zane Frantzen (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• React Native boilerplate code running</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Have the first few static views running on the emulator</li> </ul>

Feb 23rd 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Created QSYS component list</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• none</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Module 2 Assessment<ul style="list-style-type: none"><li>◦ Bluetooth Communication Protocols</li></ul></li><li>• Continue figuring out how to actually use RFS stuff</li></ul>
Andrew Chan (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Created QSYS component list</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• none</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Module 2 Assessment<ul style="list-style-type: none"><li>◦ Bluetooth Communication Protocols</li></ul></li><li>• Continue figuring out how to actually use RFS stuff</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Finished software implementation</li><li>• Can be used for verification</li><li>• Started verilog implementation</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Module 2 Assessment</li> <li>• Continue Verilog AES implementation</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Configuration issues</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Module 2 Assessment</li> <li>• Read through more documentation</li> <li>• Set-up CI/CD pipeline (deployment and tests)</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Login screen runs on emulator</li> <li>• Finished configuring boilerplate code</li> <li>• How to communicate over Bluetooth</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Module 2 Assessment</li> <li>• Finish Dashboard-type view</li> <li>• Getting data passed around app via Redux</li> </ul>



Feb 25th 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Most of tutorial 1.3 done</li><li>• Mostly figured out where the actual GPIO pins are</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Module 2 Assessment<ul style="list-style-type: none"><li>◦ Sign up</li><li>◦ Check requirements when out</li></ul></li><li>• Continue figuring out RFS stuff</li></ul>
Andrew Chan (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Most of tutorial 1.3 done</li><li>• Mostly figured out where the actual GPIO pins are</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Module 2 Assessment<ul style="list-style-type: none"><li>◦ Sign up</li><li>◦ Check requirements when out</li></ul></li><li>• Continue figuring out RFS stuff</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• None</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Module 2 Assessment <ul style="list-style-type: none"> <li>◦ Sign up</li> <li>◦ Check requirements when out</li> </ul> </li> <li>• Continue Verilog AES implementation</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Module 2 Assessment <ul style="list-style-type: none"> <li>◦ Sign up</li> <li>◦ Check requirements when out</li> </ul> </li> <li>• Read through more documentation</li> <li>• Set-up CI/CD pipeline (deployment and tests)</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished login view</li> <li>• Figured out redux stuff</li> <li>• Login to main screen is viewable</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Module 2 Assessment <ul style="list-style-type: none"> <li>◦ Sign up</li> <li>◦ Check requirements when out</li> </ul> </li> <li>• Finish Dashboard view</li> </ul>

	<ul style="list-style-type: none"><li>• Start working on upload/download pop-ups</li></ul>
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Mar 02th 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Started slides/report</li><li>• Got responses from Terasic(change pins and clk source)</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• 2 midterms today</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Finish module 2 report and slides<ul style="list-style-type: none"><li>◦ Present with Andrew</li></ul></li><li>• Continue figuring out RFS stuff</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Started slides/report</li><li>• I tried to make the tutorial run</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Exams</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Module 2 Assessment<ul style="list-style-type: none"><li>◦ Slides in anticipation we get something work</li></ul></li><li>• Continue figuring out RFS stuff</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• AES Verilog encrypt and decrypt modules</li><li>• Deployed the serverless app on the backend</li><li>• Filled out design change to encryption key of 128 bits from 256 bits</li></ul>

	<ul style="list-style-type: none"> <li>Task distribution changes</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>AWS learning</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Module 2 assessment <ul style="list-style-type: none"> <li>Report and slide set</li> </ul> </li> <li>Get AWS RDS setup</li> <li>Probably CI as well</li> </ul>
Ihsan Olawale (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Verified that Daniel successfully deployed to AWS</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Module 2 Assessment <ul style="list-style-type: none"> <li>Might need to look at diagrams and slide sets</li> </ul> </li> <li>Get AWS RDS setup</li> <li>Setup CI</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Finished all of dashboard view <ul style="list-style-type: none"> <li>Upload files and download files</li> </ul> </li> <li>Settings view</li> <li>Report for tomorrow</li> <li>Protocol specifications for Bluetooth and APIs</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>None</li> </ul>

	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Continue finishing the final static views</li><li>• Device configuration views<ul style="list-style-type: none"><li>○ Passwords, wifi settings</li></ul></li></ul>
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Mar 04th 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Slides and report</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Continue figuring out RFS stuff</li><li>• Write C code for exercise</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Slides and report</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Continue figuring out RFS stuff</li><li>• Write C code for exercise</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Design change and report</li><li>• Planned out system modules</li><li>• Sent info about AWS RDS for Ihsan</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Set up CI</li></ul>

	<ul style="list-style-type: none"> <li>• Small unit tests for AWS lambda functions</li> </ul>
Ihsan Olawale (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Began looking at AWS RDS</li> <li>• Looking at CRUD APIs</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Couldn't find the configuration for AWS RDS</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Continue figuring out AWS RDS</li> <li>• CRUD APIs</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Planned out system modules</li> <li>• Completing more static views</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• n/a</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• 3 static views left</li> </ul>



Mar 11th 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Further deepened understanding of how to build upon exercises</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Testing the serial port (and how to test it)</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Continued work on testbench</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Try out our own endpoint to identify if messages are actually being sent by RFS card</li><li>• Look at TX/RX pins through wiretap at the same time to see what messages are being sent</li><li>• Check if everything matches testbench and if it is even correct</li></ul>
Daniel Ng (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Looked into authentication session vs JWTs</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Register and login endpoints</li> <li>• Synthesize AES Verilog modules and test them</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Debugged some backend issues</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Learn about how best to interface with postgres</li> <li>• Try to implement some simple queries</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Added remaining GitHub issues</li> <li>• Added file selector to the upload view</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Nope</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Move remaining logic to services (refactor time)</li> <li>• Start the upload progress popup sheet</li> </ul>

Mar 16th 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Directly connect to serial ports</li><li>• DE1 firmware fully functional</li><li>• Fixed clock issue</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Not really</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Connect computer to RFS</li><li>• See how AT commands work</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Checked if testbenches were working correctly</li><li>• Tried calling endpoints from Terasic and our server</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• No response, server didn't detect request either</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Use switches and 7 seg display to better understand signals</li><li>• Investigate Google WiFi location API</li><li>• Look into sensors (gyroscope/accelerometer) to generate keys</li></ul>
Daniel Ng (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Implemented most of the backend server</li></ul>

	<ul style="list-style-type: none"> <li>• All user endpoints done <ul style="list-style-type: none"> <li>◦ Using sessions with cookies</li> </ul> </li> <li>• Deployed to heroku with docker</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Nope</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Add remaining time to wait for login error message</li> <li>• Write some unit tests</li> <li>• Refactor to depend less on express <ul style="list-style-type: none"> <li>◦ Separate services and controllers</li> <li>◦ Services handle the business logic and returns result / error</li> <li>◦ Controller catches errors and format a message for that error</li> </ul> </li> <li>• Synthesize AES Verilog modules and test them</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Discussed with Andrew to see how firmware team is doing</li> <li>• Offered potentially helpful suggestions</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Port serverless code to new server</li> <li>• Do CRUD for files</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished all UI components <ul style="list-style-type: none"> <li>◦ Fun loading screens</li> </ul> </li> </ul>

	<ul style="list-style-type: none"><li>• Refactored code so all logic is written as services</li><li>• Frontend looks good, logic is cool</li></ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"><li>• None</li></ul>
	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Update fonts to make them look aesthetic (not Comic sans)</li><li>• Integrate with backend</li></ul>

Mar 18th 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Connected DE1 to RFS</li><li>• Connected RFS to phone!!!!<ul style="list-style-type: none"><li>◦ Used SPP protocol</li></ul></li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Start writing firmware for data transmission between RFS and phone<ul style="list-style-type: none"><li>◦ Upload packet</li><li>◦ Download packet</li></ul></li><li>• Research on using WiFi</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Investigated Google WiFi API<ul style="list-style-type: none"><li>◦ Very possible to do</li><li>◦ May require rounding down to less precision</li></ul></li><li>• Sensors use I2C protocol</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Look into RFS systems CD tutorial for sensors</li><li>• Learn how to communicate between ARM and NIOS</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Refactored the server code</li></ul>

	<ul style="list-style-type: none"> <li>Redeployed to heroku</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Integration test with supertest</li> <li>Write some unit tests</li> <li>Enable https</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Noticed and investigated refactor of server code yesterday</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Port serverless code to new server</li> <li>Do CRUD for files <ul style="list-style-type: none"> <li>GET File metadata <ul style="list-style-type: none"> <li>FileId(Autogenerated)</li> <li>Name</li> <li>CreatedAt autogenerated</li> <li>UpdatedAt autogenerated</li> </ul> </li> <li>POST new file</li> </ul> </li> <li>Finish main operations by next Sunday (not including testing)</li> </ul>
Zane Frantzen (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Updating fonts to <b>NOT</b> Comic Sans</li> <li>Integrated with server login and register</li> <li>Refactored logic so app is more efficient and better structured</li> <li>Frontend more aesthetic than ever before</li> </ul>

	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Integrate with logout endpoint</li><li>• Look into Android bluetooth communication</li><li>• More refactoring</li></ul>



Mar 23rd 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• RFS actually using wifi</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Other work</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Establish how bluetooth/wifi work</li><li>• Get backend heroku link/additional details</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Modified Quartus files for RFS Sensor to apply to DE1</li><li>• Compiled</li><li>• Reviewed C files</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Nios issue (may need to pay)</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Receive tasks from Jason</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Proper usage of dependency injection to optimize unit testing<ul style="list-style-type: none"><li>◦ Finished unit tests, 100% coverage</li></ul></li><li>• Discussed with Ihsan on file database structure</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Synthesize AES Verilog modules <ul style="list-style-type: none"> <li>◦ To run on soft processor</li> </ul> </li> <li>• Integration tests for backend (for later)</li> <li>• Reuse hex display verilog display <ul style="list-style-type: none"> <li>◦ Hardware accelerated random generator (possibly by xoring the three 50 MHz clock signals)</li> </ul> </li> </ul>
Ihsan Olawale (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Began writing service/controller for file entity</li> <li>• Received clarification on how blobs work</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other work</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Do CRUD for files</li> <li>• When done with backend consider helping firmware team</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Integrate with logout endpoint</li> <li>• Improve security</li> <li>• Logout users with expired tokens <ul style="list-style-type: none"> <li>◦ Good first step for security</li> </ul> </li> <li>• Work on bluetooth commenced</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>

	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Integrate with backend/bluetooth</li><li>• Improved UX</li></ul>
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Mar. 25th, 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Planning for tasks</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• See Tuesday's tasks</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Looked for I2C code<ul style="list-style-type: none"><li>◦ Found terasic code from 2007 applicable to de1 with minimal differences</li></ul></li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• See Tuesday's tasks</li><li>• Help others, integrate Daniel's AES QSYS system and CPEN391 Computer from UART</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Dockerized Postgres and Redis because of compatibility and localized issues</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>

	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Synthesize AES Verilog modules <ul style="list-style-type: none"> <li>◦ Then, ARM controller</li> </ul> </li> <li>• Randomly generated hex display</li> </ul>
Ihsan Olawale (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Nearly done file endpoints</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Other assignments</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Relate User entities to File entities</li> <li>• If done early, do firmware as applicable</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Finished bluetooth integration from frontend side <ul style="list-style-type: none"> <li>◦ Only two lines of code could be wrong</li> </ul> </li> <li>• Refactored yet again <ul style="list-style-type: none"> <li>◦ Throw errors instead of strange true/false tuple</li> </ul> </li> <li>• 117 JavaScript files <ul style="list-style-type: none"> <li>◦ A lot of testing</li> </ul> </li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Integrate with backend, specifically file things</li> <li>• Authentication token refresh while uploading/downloading</li> </ul>

Mar. 30th, 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>• Send strings from DE1 to app successfully</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Bluetooth parser (controller code)</li></ul>
Andrew Chan (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• RFS orientation working with Verilog files</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Using verilog files for orientation is not ideal</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Find out whether sensor data can be gotten purely from ARM</li><li>• If not, do memory mapped avalon interface on QSYS</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Successfully starting hardware accelerated module from ARM C code</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>

	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Randomly generated hex display</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Looked at JSON parser github</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Development tools not set up</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Make sure development tools are set up <ul style="list-style-type: none"> <li>◦ Re-install DS5</li> </ul> </li> <li>• Integrate JSON parser to ARM C code</li> <li>• Call server endpoints</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• UI snapshot testing</li> <li>• Written 60% of mock server services tests</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish up testing</li> <li>• Implemented CI</li> </ul>

April 1st, 2021

Jason Bai	Accomplished: <ul style="list-style-type: none"><li>Finished part of main controller code and did basic bluetooth mocking</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>Make it unnecessary to use jumper wire</li></ul>
Andrew Chan (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>Found example of I2C from prof</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>Tried something that didn't work</li><li>Understanding example and applying to RFS</li></ul>
	Tasks: <ul style="list-style-type: none"><li>Run code given by prof</li><li>Understand how to use I2C for RFS orientation sensor</li><li>Get working C code ASAP</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>Got working code for starting AES encryption/decryption</li><li>Random HEX display</li><li>Did part of the key generation algorithm</li></ul>



	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish backend integration and unit testing</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Wrote JSON parser function</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Make sure development tools are set up <ul style="list-style-type: none"> <li>◦ Re-install DS5</li> </ul> </li> <li>• Test JSON parser works</li> <li>• Integrate JSON parser to ARM C code</li> <li>• Call server endpoints</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Beautiful UML diagram</li> <li>• Implemented all unit tests</li> <li>• Done 1 integration tests</li> <li>• File retrieval from local filesystem</li> <li>• Implemented minimum password length for DE1 master password</li> <li>• Fixed some bugs from testing</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>

	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Get HPS code running on DE1 and do entire integration flow of communicating through bluetooth</li></ul>
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April 4th, 2021

Jason Bai (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• After research, I have concluded that using non-volatile memory is not feasible<ul style="list-style-type: none"><li>◦ SD card, too much work</li><li>◦ Flash: Not available on our DE1</li></ul></li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Flash: <a href="https://www.intel.com/content/dam/www/programmable/us/en/pdfs/literature/ug/ug-gen-sfi.pdf">https://www.intel.com/content/dam/www/programmable/us/en/pdfs/literature/ug/ug-gen-sfi.pdf</a></li><li>• Help others with remaining tasks</li><li>• Final report</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Marginally understood some concepts about I2C with RFS sensors</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• Failing to understand the examples given</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Password function in firmware</li><li>• Identify files that need refactoring</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Did given tasks</li></ul>

	<ul style="list-style-type: none"> <li>Finished backend unit and integration testing, backend is 100% tested</li> <li>Integrated AES code into main qsys file, tested and works</li> <li>Added 3 C files to source</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Start report writing/ final module assessment stuff</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Installed DS5, didn't work normally, had to add to path</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>none</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Look through tutorials again for how to add existing files to DS5 project <ul style="list-style-type: none"> <li>Or just create new files and paste code in</li> </ul> </li> <li>Midday by tomorrow: something usable for Wi-fi</li> <li>Test JSON parser works</li> <li>Integrate JSON parser to ARM C code</li> <li>Call server endpoints</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Installing software to run firmware on actual hardware</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>None</li> </ul>

	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Run app on phone</li><li>• Load firmware onto DE1/rfs</li><li>• Test out integration</li></ul>
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April 6th, 2021

Jason Bai (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Worked on report, wrote firmware stuff</li><li>• Researched RFS sensor stuff</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Continue sensor research</li><li>• Help finish report</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Wrote verification service for master password</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Help finish final report</li><li>• Refactor code to match the high level firmware structure diagram</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Server and hardware acceleration part of report</li><li>• Filled out front part of report (copy and modify stuff from module 1 proposal)</li><li>• Code documentation for backend</li><li>• Add instructions for how to run backend locally</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish up server README</li> <li>• Do individual appendix</li> <li>• Help finish report</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Got DS5 working and completed JSON parser</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Integrate JSON parser with wi-fi code and everything else</li> <li>• Figure out how to parse response from server</li> <li>• What HTTP, AT commands to use</li> <li>• Help finish report</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Installed all software needed to run everything</li> <li>• Got app running on real phone, and actually connected to firmware running on DE1</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Firmware only receiving 16 bytes right now</li> </ul>

	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Figure out 16 byte limit, may have to adjust communication protocol to make it work</li><li>• Update set password view</li><li>• Help finish report</li></ul>
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April 8th, 2021

Jason Bai (Scrum Leader)	Accomplished: <ul style="list-style-type: none"><li>• Mostly wrote out driver code for sensors</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Debug sensor code</li><li>• Report: individual appendix</li></ul>
Andrew Chan	Accomplished: <ul style="list-style-type: none"><li>• Moved all memory addresses to a single C file for organization</li><li>• Started refactoring function names</li><li>• Wi-fi: worked with Bob, had DE1 issues</li></ul>
	Road blocks: <ul style="list-style-type: none"><li>• None</li></ul>
	Tasks: <ul style="list-style-type: none"><li>• Continue working with Bob on wifi</li><li>• pause refactoring for now</li><li>• Help finish report</li></ul>
Daniel Ng	Accomplished: <ul style="list-style-type: none"><li>• Finished server README</li><li>• Started writing remaining functions for firmware (that call already written functions)</li><li>• Finishing main controller code</li></ul>

	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• Waiting for others' work to be finished</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Continue integrating firmware code</li> <li>• Individual appendix</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Worked on Wi-fi</li> <li>• Worked on report <ul style="list-style-type: none"> <li>◦ Added JSON parser stuff to firmware part</li> </ul> </li> <li>• Covered on AT commands</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Continue working on Wi-fi <ul style="list-style-type: none"> <li>◦ Then add wi-fi report</li> </ul> </li> <li>• Individual appendix</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>• Implemented fragmented bluetooth sending from phone to DE1</li> <li>• Wrote skeleton controller code</li> <li>• Wrote JSON parser helper functions</li> <li>• Improved README of app</li> <li>• App debugging and UI improvements</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>• None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>• Finish multi fragment message sending on firmware</li> </ul>

	<ul style="list-style-type: none"><li>• Change app to send network information to DE1</li><li>• Individual appendix</li><li>• Help finish report</li></ul>
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April 11th, 2021

Jason Bai	<b>Accomplished:</b> <ul style="list-style-type: none"><li>• Finished orientation sensor data<ul style="list-style-type: none"><li>◦ Can be integrated to firmware controller code</li></ul></li><li>• Wrote individual appendix</li></ul>
	<b>Road blocks:</b> <ul style="list-style-type: none"><li>• None</li></ul>
	<b>Tasks:</b> <ul style="list-style-type: none"><li>• Finish committing sensor data</li><li>• Write sensor testing code</li><li>• Update relevant sections of report</li></ul>
Andrew Chan	<b>Accomplished:</b> <ul style="list-style-type: none"><li>• Worked to solve WiFi issues</li><li>• Used wireshark to identify request/response to server from RFS WiFi chip</li></ul>
	<b>Road blocks:</b> <ul style="list-style-type: none"><li>• Cannot figure out which QSYS components to remove, as removing some of them makes the .sof file not work</li></ul>
	<b>Tasks:</b> <ul style="list-style-type: none"><li>• Cleaning up quartus file</li><li>• Add connection to reset WiFi chip</li><li>• Write integration tests (different message types)</li></ul>

Daniel Ng (Scrum Leader)	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Finished basically all firmware controller code <ul style="list-style-type: none"> <li>Integrated phone location</li> </ul> </li> <li>Identified WiFi chip bug of 16 bytes UART FIFO and fixed it</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Finish integrating Jason's sensor code</li> <li>Fix all other integration bugs</li> <li>Send response to phone with carriage return</li> <li>Individual appendix</li> </ul>
Ihsan Olawale	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Finished WiFi code (GET and POST requests)</li> </ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"> <li>None</li> </ul>
	<p>Tasks:</p> <ul style="list-style-type: none"> <li>Refactor the WiFi code to look better</li> <li>WiFi mocking for integration tests</li> </ul>
Zane Frantzen	<p>Accomplished:</p> <ul style="list-style-type: none"> <li>Rewrote bluetooth code <ul style="list-style-type: none"> <li>Removed 16 byte limit fragments</li> <li>Great performance gain</li> </ul> </li> <li>Changed some controller code</li> <li>Fixed some bugs on the frontend app</li> </ul>

	<ul style="list-style-type: none"><li>• Added get location services to phone and sending to DE1</li><li>• Improved frontend testing</li></ul>
	<p>Road blocks:</p> <ul style="list-style-type: none"><li>• None</li></ul>
	<p>Tasks:</p> <ul style="list-style-type: none"><li>• Fix file encoding bug (potentially)</li><li>• Individual appendix</li><li>• Help finish report</li></ul>