

Documentation and Educational Website Weekly Report

EE/CprE/SE 492 WEEKLY REPORT 02

2/18/2023 – 3/04/2023

Group number: 31

Client &/Advisor: Dr. Hongwei Zhang

<i>Team Members</i>	<i>Majors</i>
Adam Kruger	Software Engineering
Danny Cao	Electrical Engineering
Ethan Gabriel	Electrical Engineering
Zachary Miller	Software Engineering

Sphinx Development

- Adam Kruger
- Zachary Miller

Website Design

- Zachary Miller
- Ethan Gabriel

Willingness to learn about

5th Gen Wireless Networks

- All team members

Tech Writer Skills

- Danny Cao
- Ethan Gabriel

Experiment Design

- Danny Cao

Git

- Zachary Miller

Surveying Experience

- All team members
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Weekly Summary:

For this week, we had mostly everything set up in terms of website development. However, it was previously mentioned that the team would focus a little more on finalizing the website framework before fully integrating all features the team was looking to include. This discussion in finalizing the framework was also done with our advisor/client to ensure all requested features and website flow would be achieved.

While the framework for the documentation/educational website was finalized, the team realizes that there will have to be another separate discussion on the inclusion of specific learning modules and test beds that would most appropriately align with the learning module. Either way, we as a team could work on other pages that won't require extensive research or external resources to complete, such as the general introduction and a contact us page.

There was also some work done on reviving old Powder and openSRS applications that were previously tested, but we are currently running into some issues regarding account test beds. We decided not to spend too much time addressing this issue as test bed setup is still not our main priority.

The following are some changes/input made to the framework:

Introduction

- No changes made to original plan

Module Links

- No changes made to original plan

Test Bed

- Renamed from simulation to test bed to accurately reflect the purpose of learning module applications and uses.
- ARA features will be implemented within Test Bed as an ISU associated 5G application.

Contact Us

- No changes made to original plan

How to Get Started

- Inclusion of O-RAN application
- ARA will be active within the following weeks, software and application guide will be needed to support this.

Reference sources

- New tab was added as a request/advice from the advisor to properly give credit for any resources used/referenced.

Past Week Accomplishments:

- Zach Miller: Worked on developing the home (introduction) page for Sphinx
- Danny Cao: Framework for documentation and the educational website was finalized and accepted by advisor/client with input from other team members.
- Adam Kruger: Worked on developing the contact us page for Sphinx
- Ethan Gabriel: Confirmed framework development was approved with advisor/client.

Pending Issues:

- Zach Miller: Duplicate gitRepo was accidentally created by the advisor/client and will have to move all current progress onto the client's requested git.
- Danny Cao: Powder application and testbeds have expired, and setting up another test bed will only last a week. Will have to re-evaluate the use of Powder.
- Adam Kruger: Needs to associate readthedocs with the development and current progress of the project.
- Ethan Gabriel: Priority of to-do tasks to be re-evaluated to confirm we are still on schedule with the overall project timeline.

Individual Contributions:

<u>NAME</u>	<u>Individual Contributions</u> <i>(Quick list of contributions. This should be short.)</i>	<u>Hours this week</u>	<u>Hours cumulative</u>
Zach Miller	Was able to get Sphinx installed on everyone's computer	4	13
Adam Kruger	Began to brainstorm an outline for the website, read up on readthedocs	4	13
Danny Cao	Created the outline for the website	4	13
Ethan Gabriel	Helped type out documents and helped with the website format	4	13

Plans for Upcoming Week:

- Finish populating introduction and contact us page
 - Adam Kruger and Zach Miller
- Have some members debug and rerun Powder application as well as analyze the necessity of Powder application.
 - Danny Cao and Ethan Gabriel
- Being to discuss and populate learning modules with advisor/client present
 - Team collaboration
- Look to utilizing readthedocs.org for creating and hosting documentation material
 - Danny Cao and Adam Kruger and Zach Miller

Summary of Weekly Advisor Meeting:

The weekly advisor meeting consisted of finalizing the framework with our advisor/client. With the base framework laid out in the previous bi-weekly report, changes were made as per the client's request, such as the inclusion of a citation page. Another testbed application/software will also have to be utilized as the advisor/client noted that the official ARA network would be active within the following weeks, and having an ISU-affiliated tool would be of great value for the project.

From an advisor's viewpoint, there were also some suggestions for the project. Some advice and suggestions included ensuring that the template and tabs are in an appropriate order based on content. Visuals and overall website graphics were also not entirely prioritized but were suggested to be still of importance to the development of the project. The team will most likely follow a form of developing the page and populate it with content before running through the pages again to improve upon/redevelop the website graphics and appeal to prioritize content and save time.

Additional requests for software and applications included O-RAN, readthedocs, and ARA. We as a team also decided to prioritize not the general undergraduate population, but rather for incoming undergraduates who will be working closely with the official ARA project before shifting our focus to the general undergrad population.