My Contribution

In the project, I take the responsibility of writing the document and the front-end user interface design. The detail contribution is listed below:

Deliverable:
1. Team up, send team information
2. Requirement Specification
    1.1 half of the purpose
    1.4 half of product scope
    1.5 reference
    2.1 product perspective
    2.2 product function
    2.3 half of user classes and characteristics
    2.5 design and implementation constraints
    5.1 ¼ of the performance requirement
    5.2 safety requirement
    5.3 security requirement
    5.4 software quality attribute
    Appendix A: half of the Glossary
    Appendix C1: Website Related to Real-Time Water Data
    Appendix C2: Website Related to Indigenous Water Situation
3. Software Design
    1 introduction
    2.2 constraints
    2.3 system environment
    3.1 overview
    3.2 design rationale
4. Skipped
5. Implementation Document
    1 Architecture
    2.1 languages
    2.2 tools
6. Testing overview
    1 introduction
    2 half of the test plan
    3 test case
7. Video editing & ¼ of the script with voice acting

Project:
    Frontend button dropdowns, generate new row: Menu.tsx
    Test UI through frontend

In Menu.tsx, I add one more drop down called duration beside the probe drop down. After selecting duration(yearly/monthly/weekly), the corresponding drop down for year/month/day will show to the right of the same line. I do this by setting an if condition to check which drop down is selected to determine the corresponding drop down that needs to be shown.

After selecting a duration and clicking comparedByTime/compareByNode, a new row identical to the chosen one will appear below. This is done by a deep copy of the existing row.

These two functions are for the compare by time and compare by node functionality of our website, to show the selected time period/node. Only the time/node will be shown in the line below because other attributes are the same for all comparisons.

In the testing procedure, I test if the UI works properly. That is, if the row generated below contains the data we want by trying to enter all possible inputs(select all selectable dropdowns) to see if the website crashes.

During the expo, I was in charge of introducing the hardware and dataflow, including how data is transmitted from the hardware to server and to our front end. I also do the video editing of the expo video, as well as the voice acting and the initial powerpoint part of general introduction.