**Analytic Deployment Review of FRame.BuildR**

Downloading Project:

Using devtools::install\_github(‘https://github.com/mrkaliv/FRame.BuildR.git’), I installed the program with no issues. However, I was not sure how to open the project as there was no Rproj file.

As an alternative, I opened a new project using Version Control > Git and installed a new build. There were no errors.

After some additional education, I used devtools::install\_github('HarmonicAnova21/FRame.BuildR',build\_vignettes = TRUE, force = TRUE ) in addition with require('FRame.BuildR') and everything installed as intended, no errors.

Documentation Review:

I found a ReadMe document in the inst folder with an overall description of the project. I was expecting to find the proposals completed for class, but understandably, these were artifacts of the class and not specifically documents you would provide in a package. The readme did state that the user should have an understanding of Frame Theory, which I do not have, and therefore as a user, I will require more assistance in working through this project. Additionally, I appreciate the exact syntax to install the package seeing how it required additional caveats to work the way the developer intended it to work.

Proposal 2 was not located in the package but I was able to find a copy in OPER782.WI2020. It appears that one function is complete and ready to be evaluated, Difference Set Check. There are a few other functions that are in progress according to their priority.

FRameBuildR-Intro had extensive documentation that provided a brief overview, then additional theory, and finally a walk-thru for junior people like myself. Additionally, each sub-function spelled out in the walk-thru also had their own complete help file.

Test Project:

Working through “Using this Package” tutorial, the build.group function worked. However, the example to build.ds appears to be missing the h component and would not run. I guessed at the correct syntax and executed diff.set<-build.ds(as.integer(2,4,5,6), h=g), but this returned a failure that it was not a difference set.

Looking into the build.ds help file, I ran the example there. The example there also has a syntax error where it is missing a parenthesis after the 3. It should read build.ds(ds = as.integer(c(0,1,3)), h=group). Inserting g as the group, this function ran and provided difference set outputs.

The frame.ds function also ran and provided a consistent output.

The function of the Difference Set vignette was to access the matrix, which I was not sure how to do. @Matrix must mean something I am not familiar with.

I glanced over the documentation for the Steiner Method, but seeing how proposal 2 said it was still a work in progress, I did not examine it in depth.

Overall, it appears that the Difference Set function does work. It just requires a few typos to be corrected in the documentation. The theory documentation explains how everything is being computed and once you understand what the program is trying to do, it is fairly easy to use.

Rubric Assessment:

* Outstanding – ready to publish/deploy (50 pts)
  + All proposal tasks completed
  + Documentation is thorough and clear
  + No errors or warnings during build/use
* Excellent – very little rework required (45 pts)
  + Few proposal tasks incomplete
  + Documentation is clear and mostly complete
  + Minor errors or warnings during build/use
* Satisfactory – extensive rework required (40 pts)
  + Several proposal tasks incomplete
  + Documentation is limited and/or poorly written
  + Severe errors during build or in use
* Unsatisfactory – complete restart required (35 pts)
  + Little progress made on proposal tasks
  + Little to no documentation
  + Cannot be compiled, unusable