CONTRIBUTION SUMMARY

Work plan:

The first week submission was a document highlighting the work plan that we hoped to follow. Since, Aniket had searched the dataset, all three gathered together in a meeting room and gained a better understanding of the dataset from him.

The task also involved thinking of research questions which was mainly done by Aniket and Paridhi as they had a background in statistical analysis and could think of tests that could be carried out to reach a conclusive analysis. Xinyun worked on the timeline that the project should follow and created a Gantt chart for the same. The final refined document was done by Aniket and Paridhi while Xinyun took over the responsibility of maintaining the Git repository and doing all the commits. The team used Box to share all the files and Xinyun made the final commit to Git.

Data Cleaning:

The next step in the project was data cleaning which was done in part by each of them. They divided the 5 research questions amongst themselves and primarily used Excel to clean the data and the resulting final set had 42 columns and 1371 rows. This was a step by step process and was done fairly collectively.

The documentation for the same was done by Paridhi and then edited by Aniket for final submission. Xinyun made the final commit on Git.

Draft R script/ Data Analysis:

The next weekly meeting involved running the analysis in R. All three of them discussed the descriptive statistics for each of the research questions as well as the scales of measurement for each of the variables. Further, Aniket and Paridhi brainstormed on the statistical methods that should be applied and also reviewed the questions to make them more specific and suitable to the target audience. Once the research questions were finalized, they were divided among each of them and they individually worked in R to arrive at results. The final R script with comments was compiled by Xinyun and uploaded on Git.

Draft R plot:

The R plot assignment involved generating proper plots for the research questions using R. Since the questions were divided among the three, each of the project partners worked on creating plots for their respective questions. The challenge here was to create plots using ggplot and xkcd packages. Aniket used help from crowd sourced websites such as Stack overflow and other online tutorials to understand how these packages have to be used and then guided Xinyun and Paridhi to create similar graphs for their research questions. The R script was compiled by Paridhi and uploaded on Box from where Xinyun committed it on Git.

Project Presentation:

After coming to the final conclusion and decisions that could be taken based on the analysis, the results were combined into a final project presentation by Aniket using Prezi.

Git Repository:

The final Git repository involved making sure that it had all the deliverables of the project which could be used easily replicate the entire project. While Paridhi documented the summary of the project, Xinyun wrote the document mentioning the contribution of each project member. Xinyun also made sure that all the deliverables were clear, concise and easy to understand.