Team Dynamics Document:

- Weekly meeting time outside of class:
    - Everyone is available on weekends, but Sunday is preferable
    - If in-person:
        - UT library
        - Else Discord call
    - Check in with one another twice a week on non-class/meeting days
- How will we communicate?
    - P: Discord
    - A: Text Messages
    - C: Email
    - E: In-person @ UT Library
- Technologies used:
    - Discord, Julius.ai (program that is similar to what the customer wants, for inspiration), React, Tailwind, JSON/Markdown, OpenAI, Docker, plumber
- What other expectations do you have of one another?
    - To be responsive to the ideas of the group and to learn new ways of approaching a problem
- How will you keep track of what people are working on what parts of the project?
    - Either atlassian or excel spreadsheets
- Team Structure
    - Roles
        - Frontend UI Developer: Dhwani
        - Frontend and Pedagogy Developer: Anthony
        - Backend API Developer: Khalil
        - Backend AI and Integration/Testing: Amanda
        - Knowledge Base Curator/DevOps: Darwin
        - Team Lead and R/Statistics Specialist: Jordano

Project Requirements:
Current Understand of the requirements of the project:

- Create software that makes it easy for a political science student to generate code that runs a statistical regression on some given data
- Requirements:
    - Ease of Use
        - Students may not know R so the interface must be simple and should guide the students
    - Education
        - Want the students to understand the “why” of the outputs, not the outputs themselves. NEED tooltips and explanations
    - Code Visibility
        - Must display the exact R code used so students can learn and reuse code
    - Statistical Clarity
        - Want the students to understand the context of their data via p-values, coefficients, correlations, etc.
    - Data Types
        - Should automatically detect the type of data: nominal/ordinal/ratio/interval, along with explanations (should also have the ability to manually override selection)
    - Outputs
        - Tables, plots (types of plots), and the downloadable R script, marginal effects plots
            - Make sure to have libraries imported features
    - Scope
        - Want to focus on common regression models (OLS, logistic, multinomial logistic, multinomial, ordered, ordered logistic, Poisson, negative binomial for starters)
            - How to interpret these models
            - Type of variable (nominal, ordinal, continuous, etc.), may not get the regression required for the variable
- Requirements simplified:
    - Upload csv/xslx
    - Detect variable types
    - Suggest regression model (OLS, Logistic, etc.)
    - Run curated R templates with plumber

    - Show tidy results with glossary explanations
    - Run locally via Docker
- Constraints/Considerations:
    - Students will have limited technical background
    - Data sets will come from excel or csv
    - Tool needs to be able to run in browser, so no complex installations