

# USC Viterbi School of Engineering

## Project Part 2

### Goals

The purpose of this assignment is to learn to describe data collection, pre-processing, and analysis steps for your user study. This homework is Part 2 of a class project that you started in assignment 1, consisting of a total of 3 parts done in 3 separate assignments.

### Assignment

Complete this assignment in a word document, with sections that correspond to the requirements below. Then submit it on Blackboard.

Describe (in a maximum of 2 \*new\* pages) the project that you proposed in part 1 (200 points)

1. Include short description outlining the project that you proposed in part 1.
2. Describe the dataset you will have. What are the variables? Which are IVs and which are DVs? Within IVs and DVs, which are categorical and which are continuous?
3. Describe the data pre-processing steps that you believe you will need to do. What data cleaning? Will you impute values from missing data? If so, how? What other pre-processing might you need to do, if any?
4. State what kind of analysis you intend to do, and what your hypothesis is for every “test statistic” that you will generate (ie a 2 way ANOVA has a test statistic for each of the two main effects, and one for the interaction, so generate a hypothesis for each).
5. Include as an appendix the entire assignment from part 1, which you can update based on comments you’ve received and/or new understanding **making sure you highlight all changes in red font**. This doesn’t count towards your page “limit” ... also if you don’t have any changes you can make, then put a note **in red** at the top of the appendix indicating that

**PLEASE use these numbers and letters to outline your project report. That is do not just write one giant block of text, use the bullet points noted above. *However, use full sentences and not phrases or incomplete sentences.***

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### IMPORTANT NOTES

Plagiarism – presenting someone else’s ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Section 11, Behavior Violating University Standards <https://scampus.usc.edu/1100-behavior-violating-university-standards-and-appropriate-sanctions>. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, <http://policy.usc.edu/scientific-misconduct>.

A number of USC’s schools provide support for students who need help with scholarly writing. Check with your advisor or program staff to find out more. Students whose primary language is not English should check with the American Language Institute <http://dornsife.usc.edu/ali>, which sponsors courses and workshops specifically for international graduate students.

For more information, see the class syllabus and the USC web site.