## Headings for research project:

Each heading has a short description, along with a soft due date. The final paper is due on Nov 25th however you have an extension until Dec 10th at 11:59pm.

I will discuss the necessary information to complete each section by, at the latest, the week before it is “due”.

The document should be 4 pages if you are doing a bugfix project and 8-10 pages if you are only doing research. The paper must be in ACM format. http://www.acm.org/sigs/publications/proceedings-templates

## Abstract

**(Due: with final paper)**

## Introduction

**(Due: Sept 27)**

*Note: If you write a section that’s not mentioned in the intro, update the intro, or cut the section. The intro iteratively evolves with the paper and keeps you on topic and within scope.*

*It scopes the document and tells the reader what you will be talking about. It is basically a mini version of the paper from motivation all the way to results. You will also need to tell us how the paper is structured.*

## Background and Literature

**(Due: Oct 10 @ 1pm, if you want feedback in class. In the context of your work, you should cite and summarize at least three papers.)**

*In the intro we provide basic motivation for the research. Here we expand on that motivation, provide a motivating example (if appropriate), and show how our work will advance our scientific knowledge.*

*Tell us why the problem is important. If you solve the research problem, who will care? If nobody will care, then don’t do the research. Maximum impact.*

*You will also summarize each of the papers you reference in this work in a paragraph. The paragraph must clearly show how the paper DIRECTLY relates to the work being done. If it doesn’t related directly, cut it! Use scholar.google.com to find references.*

## Methodology and Data

(Due: Oct 18, describe your data)

(Due: Oct 25, basic scripts)

*Describe where your data came from, how it was collected, any limitations the data has, etc*

*Describe how the data is sufficient to answer your research questions*

*Write scripts to analyize data*

## Results and Discussion

**(Due: Nov 1, Results for RQ 1)**

**(Due: Nov 15, Results for RQ 2)**

**(Due: Nov 22, Results for RQ 3)**

*Start each result section with the header of the question to remind people why you have the result. Describe the result. Then discuss the impact the result has.*

# Threats to Validity

**(Due: with final paper)**

*Here you talk about any problems you’ve had while doing the study.*

## Conclusion

**(Due: with final paper)**