

Wesley Cox - coxw2  
Week of April 18, 2016

## Individual Status Report 2

### Previous Week's Goals

This week, the group's goal as listed in our plan is to figure out the use cases, user manual, and case studies. I interpret this as figuring out the mold that we will build our program to fit. My personal goals are to ensure the user manual is written well, make sure the case studies cover a wide range of code, and to begin getting out a good test suite. I want to start writing tests even though they are not planned for a while because I believe they go well with figuring out our specifications

### Previous Week's Progress

As a team, the user manual and the large majority of the specifications have been completed to an acceptable level of quality. Also, we have reworked our initial design to be slightly less strict, but much more usable and convenient to the developer. Personally, this week I did more research for figuring out our case studies, use cases, and more on previous attempts to solve this problem. I believe the current case study and use cases are done well, but the research on previous attempts is still not in an acceptable position.

### This Week's Goals

This week, I intend to get a lot of outside help in order to do the research on previous projects properly and quickly. Hopefully I was just missing something fundamental in the research, like where I was searching for academic works or searching the wrong terminology. After this, the team needs to finish the trivial type checker (which I believe should now be @NonNegative). Then after this, we should have enough understanding to set up the modules/organization of our @IndexFor checker.