

6.005 Project One Reflection – abcplayer
Christopher Ford
November 1, 2013

Team Reflections

- How did you feel the team did?
 - o As a team, I think we did well. We did a great job setting ourselves up for success. We had daily scrums, set up a method of code reviewing (by way of GitHub), and set up a project management system (by way of Trello). Our final product was able to properly play all the .abc files we were able to throw at it. We did a solid job of identifying and satisfying the requirements of the project.
- How well did your team work together?
 - o I feel like we worked quite well together. As mentioned above, we set ourselves up for success very well which made working with one another much easier. As sleep levels decreased and stress levels increased, communication took a hit, both in terms of frequency and quality. As the project went on, we became much more direct and didn't sugar coat any comments that we had for one another. This never became a problem, but it was something I thought was very interesting. At times, it was difficult to organize meetings as all of us are taking difficult course loads and have many commitments outside of the classroom (varsity sports, clubs, etc.). I think we did a good job communicating our availability.
- How was the coding?
 - o The coding was challenging, to say the least. That being said, our code was quality. We ran ideas past one another, double checked one another's thought processes and resulting code, and made sure to document everything properly to ensure that our code would be easy to understand, both for the members of the team, and for anyone else wanting to look through our code. We all have different working styles when it comes to writing code which made coding in group difficult sometimes, but it was great to see how other people best work. Personally, I was able to pick up a few habits and tricks that I will be able to use in my future coding endeavors.
- How did you split the work?
 - o We split up the work quite evenly. Austin worked primarily on the lexer and parser, Josh worked primarily on the ADT, and I primarily worked on testing, documentation, and miscellaneous deliverables (team contract, abc files, design document, warmup, etc.). It's important to note that although that is what each of us primarily did, our work was not limited to that. Josh and Austin worked out the basic structure of the listener together and I helped debug it. Josh and I helped bring Austin up to speed with how musical notation works. Josh and I were able to use our musical backgrounds to

help design our ADT. Austin helped out with parser testing. Whenever one of us hit a roadblock or needed help with something, we weren't afraid to ask for help and we all helped to solve the problem.

Individual Reflections

- How do you think you did?
 - o I think I did quite well. I was primarily in charge of testing and felt like I did a solid job with that. Before sitting down to write code, I spent the necessary time thinking about how to partition our input spaces and was able to write tests that effectively ensured the safety of our project from bugs. I also think I did a good job with documentation and the other deliverables of the project. I spent a lot of time working on our design document to make sure it was top notch. Each time our design changed, I made sure to reflect those changes in the design document. I also think I did a good job with project management. I communicated early and often, and did my best to ensure that the tone of my communication was as appropriate as possible.
- What specific contributions did you make?
 - o Design document, warm-up, testing, documentation, debugging, some ADT and listener strategy. As mentioned above, I was able to share my musical background with Austin and Josh to help them with their respective parts. Josh and I worked together when we faced problems in our ADT and listener, mainly tuples. I was able to help bring Austin up to speed with music to help him with the lexer and parser and to enable him to help with ADT and listener strategy.
- How do you feel about your contributions?
 - o As noted above, I feel like my contributions were quality. I'm proud of the work I did and felt like I played a significant role in the success of the team. More importantly, I feel that we all played integral roles in the success of the team. At times, it was frustrating when I had written vast testing suites for parts of our ADT that we ended up scrapping, but I was glad that we were able to refine our ADT to make it as solid as possible.