Jonathan Spratt

Senior Project

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Contributions Document

My contributions consisted of a large portion of the backend side of the project. I was responsible for the design and creation of the database including ~38 tables, numerous views, triggers, and stored procedures. However, there was plenty of group discussion on the design of the database. I also laid the foundation for all of the middleware and REST API using Django including models of DB tables, views of DB information, urls, and serializers to transform raw data into JSON and vice-versa. There is a settings file used in Django that was worked on by a few people including myself, Paul Bayruns, and Paul Turner primarily. I was responsible for creating the majority of the queries needed for endpoints. All artifacts created by the team were worked on by everyone on the team.

All in all, having come into the project never creating a web application before, I feel that I’ve learned a great deal. I’ve never written anything significant using Python and I had to start from scratch and learn the language and the Django framework. There was a significant learning curve but I feel I’ve learned enough about both Python and Django to be able to apply my new skills in a professional environment. I’ve also never worked with HTTP requests. Therefore, creating a RESTful API was a new challenge and I feel I’ve learned the process well and can take that into a professional environment as well. The team I worked with for senior project was great and I feel like we’ve all come out of this semester feeling like we’ve accomplished something to be proud of.