

Assignment 2

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My Design

I think that my design helped make my implementation easier. The design helped me identify the classes that were necessary and the interfaces that were possible for the set of commands that were specified in the requirements document. It was also helpful in identifying the fully qualified name scheme and the use of the KnowledgeGraph in the application.

One shortcoming of the design is that I could have been more explicit about the use of the KnowledgeGraph and how the ModelServiceApilmpl class would maintain a registry of objects.

Changes to My Design

Originally, my design included a mechanism to ensure that a partially executed script would not leave any side effects. In reviewing the architecture document, I decided that this was likely unnecessary for the end users of the Housemate system. This removed a lot of complexity, including the need to have a scheme for “deferred actions” to validate and execute commands in separate steps.

Design Review

The design review helped me to further simplify my design. Originally, I created an individual class for each Command, which was necessary for the deferred action scheme I originally created. My reviewers pointed out that these classes were no longer necessary, and by removing them, I was able to clean up my design and implementation.

My feedback to my other reviewers had a lot to do with their requirements definitions. I helped them create more detailed requirements, especially around the commands and specifics on how they should execute.