

Design Practice Questions

Question 1. Consider the Happy Flush system from the Midterm Practice Questions. Create a UML class diagram that models the “business logic” of the system. Use the domain model that you created for the system as a starting point. Recall that in the domain model the classes are *conceptual*—that is, they are entities of the problem. In your software class diagram, the classes will be software entities in your solution.

Question 2. Draw an object diagram that instantiates your design for the case where there are two plumbers: Larry (ID: 33343) and Betsy (ID: 21321). Larry has been assigned a job for Kilroy Jones (Billing address: 789 Poplar Ave, Memphis, TN). The job will be performed at the billing address and requires a power wrench (Model: Buzz22, tracking ID: 5663). It will cost \$341. Betsy also has been assigned a job for Kilroy; however, her job is at a different property: 444 Walnut Grove, Memphis, TN. Betsy's job will require a manual saw (Model: BasicSaw12, tracking number: 0009) and a sewage flusher (Model: YuckFlush5000, tracking ID: 2287). It will cost \$53.

Question 3. Draw a sequence diagram for the UC *CheckOutEquipment* as performed by your system.