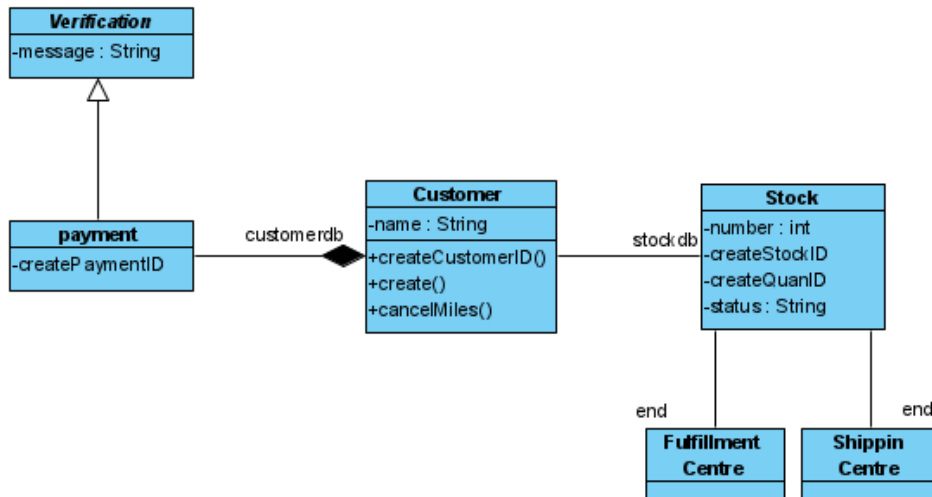


Design Review Report

By: Varun Suthakaran, Zainab Nomani, Andy Lau

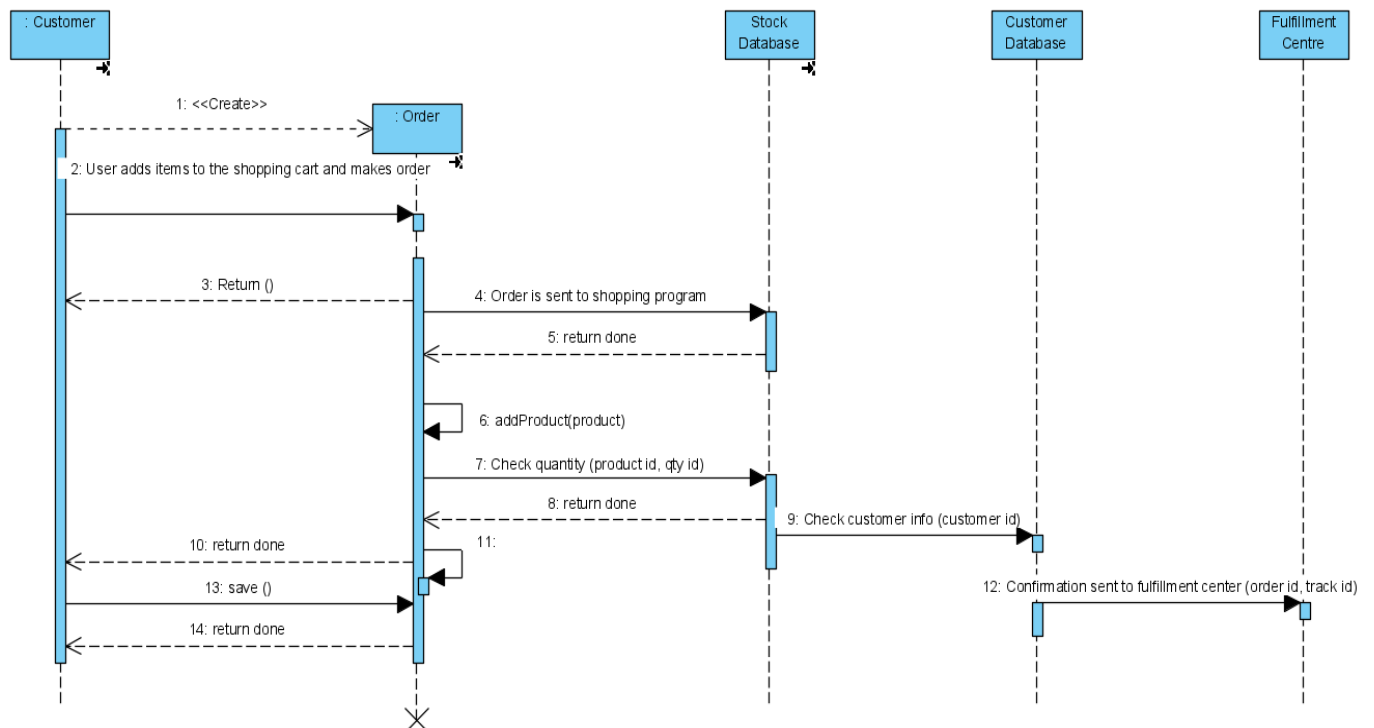
April 15, 2022

Conceptual Model Diagram:



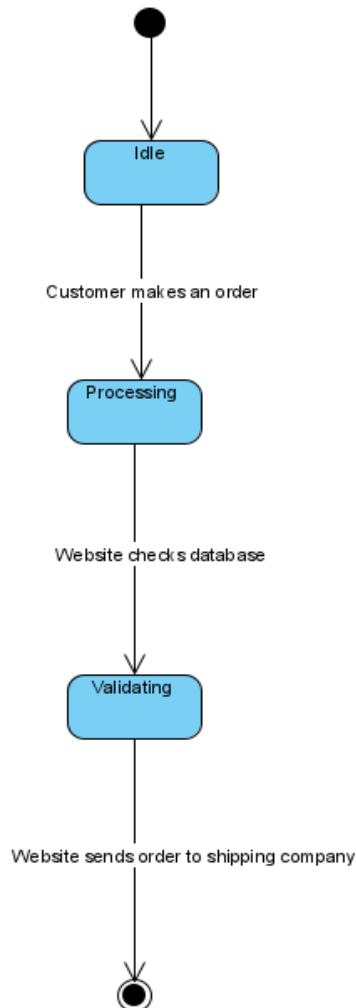
Here is the conceptual model diagram, which shows how each of the databases interacts with each other. In this scenario, we looked at all major components of a shopping system and demonstrated how all of their databases interact with each other. As well as how the database interacts with the physical database. In other words, it provides us with how tasks within the system should potentially be carried out.

Sequence Diagram:



The sequence diagram here helps simulate the process of each database working with each other. In this case, we begin with the customers' orders. This then goes to the stock database, customer database, and fulfillment database. This is an overgeneralization of a sequence diagram as it would be a bit more detailed than this. This can vary from store to store as some stores might be bigger than others and they would have more feasibility in their system than say a store that's small and doesn't utilize their website as frequently.

State Diagram:



This state diagram helps us understand the behaviour of a shopping system through this series of events that are happening within the states. In this situation, there are three states, which are idle, processing and validating. In the first state, we have the customer making an order, and then we go to the second state, where the website checks the database. Finally, in the last state, the website sends the order to the shipping company.