



States:

From the feature as well as the text file we concluded that we only need 5 states : Open, Assigned, InProgress, Completed, Closed.

For the transitions:

Assign: which takes for input a warehouse worker as well as an expected time of completion as well as a priority. When all inputs are correct the state of the order can only go from Open to Assigned

Start: Which takes no input allows a Shipment order to go from Assigned to InProgress only.

Complete: Which takes as input a Boolean which is the ShipmentOrder's lazy parameter which says whether or not a check needs to be done. Depending on that value if a check is needed the Shipment Order state goes from InProgress to Complete only and in the other case when no check is needed the Shipment Order status goes from InProgress to Closed.

Reject: this is a transition from Completed to InProgress only.

Approve: this is a transition from Completed to Closed only.

In our controller methods all transitions need an additional input which is the ID of the Shipment Order and in case that ID is invalid nothing happens.

Also any use of a transition in an incorrect state i.e. the use of a transition outside one of the cases mentioned causes an error and we stay in the same state.