**State Transition Diagram Exercise**

A website shopping basket starts out as empty. As purchases are selected, they are added to the shopping basket. Items can also be removed from the shopping basket. When the customer decides to check out, a summary of the items in the basket and the total cost are shown, for the customer to say whether this is OK or not. If the contents and price are OK, then you leave the summary display and go to the payment system. Otherwise you go back to shopping (so you can remove items if you want).

1. Produce a state diagram showing the difference states and transitions. Define a test, in terms of the sequence of states, to cover all transitions.
2. Produce a state table. Give an example test for an invalid transition.