Functional Requirements (by subsystem)

*Admitting Customers*

* A group of Customers may acquire a Table.
* Tables may be grouped together.
* Restrictions:
  + No more than 5 customers per Table.
  + Total of 20 Tables make up the Floor.

*Processing Orders*

* Waiter may take an Order if a Table’s state is ReadyToOrder
  + If Tables are grouped together, the grouped Table’s Order is taken.
* Kitchen may begin processing Orders once the Waiter has added order to the PendingOrders queue.
  + Head chef delegates dishes to Grill Chef or Fry Chef
* Kitchen may add order to ReadyOrders queue once processed.
* Waiter may only deliver Orders in the ReadyOrders queue.
* Customers may rate dishes once Order has been delivered.
  + Customer state may change once Order has been delivered.
* Customers may order again.
* Table may pay the bill once Table state is in PayBill.
  + All orders from a single table are merged into one bill.
  + Total is calculated in a Bill object.
* Customers may leave once the bill is paid.