Restaurant Simulator

You are expected to design the Restaurant Simulator with the below mentioned Requirement/Conditions

*You need to identify the list of classes/entities involved for simulating the cooking order fulfilment - Identify various attributes for these entities and how these classes/entities interact with each other.*

Conditions:

*- You support items from various categories - veg, non-veg, juices, coffee/tea, snacks.*

*- Each category is backed by one or more chefs.*

*- An order from customer can have items from one or more categories.*

*- Prepared foods must be served immediately to the customer for all categories except snacks.*

*- For snacks - only after all the items of snacks category in the order is prepared, it must be served as whole to the customer.*

*- Try to deliver the order as quickly as possible following the category serving rule.*

Please find the above problem statement:

1)What we want to see is a outline of the solution to see how you approach for such a design. You are just expected to create the backend without any User Interface. Just create the core classes that is required & a few interactions for the same. You’re not expected to develop a fully fledged product as such. Just create a skeleton class with a breakdown of the mentioned requirements.

*2) Also, provide us a sample output for the list of use cases from your application.*

*Sample Input:*

*Num.of.Chefs in Veg category-2*

*Num.of.Chefs in Non-Veg category-1*

*Num.of.Chefs in Juice category-1*

*Num.of.Chefs in Tea/coffee category-1*

*Num.of.Chefs in Snacks category-2*

*Num.Of.Items in Veg Category—2*

*----------[ItemName/ItemTime in mins]*

*----Veg Biriyani/10*

*---Chapatti/5*

*Num.Of.Items in Non-Veg Category—2*

*----------[ItemName/ItemTime in mins]*

*----Chicken Biriyani/10*

*---Fish fry/15*

*Num.Of.Items in Tea/Cofee Category—1*

*----------[ItemName/ItemTime in mins]*

*----Tea&Coffee/10*

*Num.Of.Items in JuiceCategory—2*

*----------[ItemName/ItemTime in mins]*

*----Apple&Pomo/10*

*---Grapes/5*

*Num.Of.Items in Snacks Category—3*

*----------[ItemName/ItemTime in mins]*

*----Samosa/10*

*---bajji/5*

*--Sandwich/5*

*Usecase1:*

*Customer: ItemName/Quantity*

*Order1 -Order Time---HH:MM----10:15*

*: Chicken Biriyani/2*

*Tea/1*

*Bajji/1*

*Apple/1*

*Order1 fully served At : 10.25 [10 min to finish of all items].*

*Note: The sample output provided might be different for the design approach you have choosen.*