Client(s)

User Interface Level

Return value

Auction Method

Primary
Replica (Front
End)

Processing Level

Backup to replica

Data Level

Replica(s)

The design showcases a model where there can be one/many clients at once, each one will call an auction interface method and then the a primary replica will be assigned to which processes that request, before the request is processed it will backup the values incase a new replica had just joined and the primary replica would crash during processing and not be able to backup (since backup usually occurs afterwards), then once it computes a value it would backup its current values (which involves all the class variables and its logical clock) and then return its computed value for that method.
At any point if a primary replica crashes.