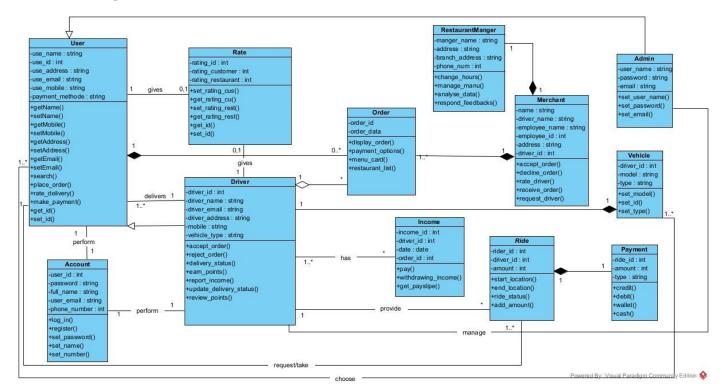
Class Diagram V2

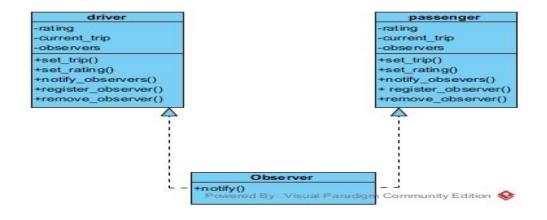


Class diagram applying the design patterns and other modifications

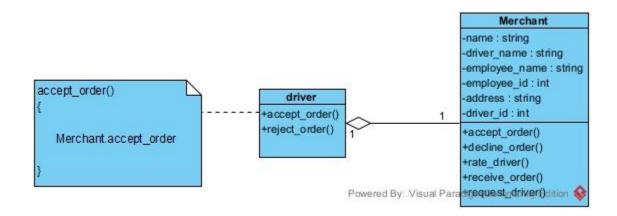
Name	Singleton pattern CREATIONAL DESIGN PATTERN
Context	It is very common to find classes for which only one instance should exist (singleton)
Problem	How do you ensure that it is never possible to create more than one instance of a singleton class. And provide a global point of access to it
Forces	 -The use of a public constructor cannot guarantee that no more than one instance will be created. -the singleton instance must also be accessible to all classes that require it, therefore it must often be public.
Solution	-Have the constructor private to ensure that no other class will be able to create an instance of the class singletonDefine a public static method, The first time this method is called, it creates the single instance of the class "singleton" and stores a reference to that object in a static private variable.

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Name	Observer (Publish-Subscribe) pattern (Behavioral Design Pattern):
Context	When partitioning a system into individual classes you want the coupling Between then to be loose so you have the flexibility to vary them Independently. (Update class)
Problem	A mechanism is needed to ensure that when the state of an object changes related objects are updated to keep them in step.
Forces	The different parts of a system have to kept in step with one another without being too tightly coupled.
Solution	One object has the role of the subject/publisher and one or more other object the role of observers/subscribes. The observers register themselves with the subject, & if the state of the subject changes the observers are notified & can the update themselves:



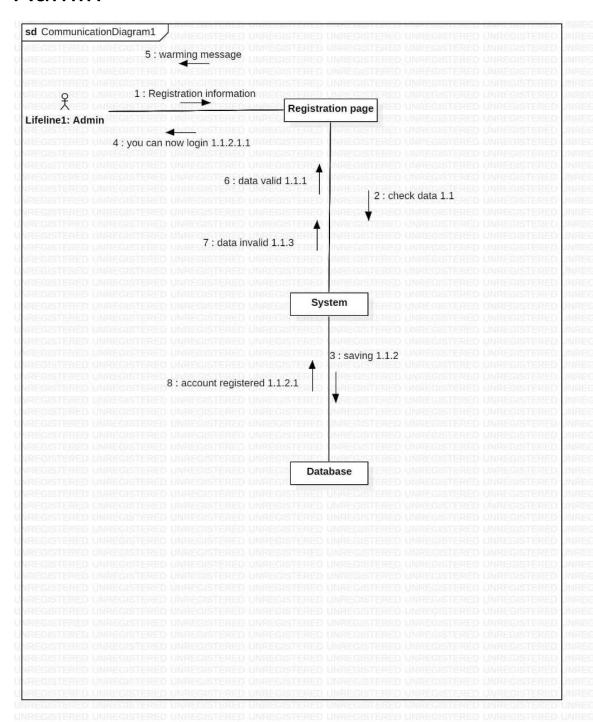
Name	DELEGATION pattern(Structural Design Pattern)
Context	-You are designing a method in a class. You realize that another class has a method which provides the required service.
	-Inheritance is not appropriate
Problem	•How can you most effectively make use of a method that already exists in the other class?
Forces	• You want to minimize development cost by reusing methods.
Solution	• The delegating method in the delegator class calls a method in the delegate class to perform the required task. An association must exist between the delegator and delegate classes.



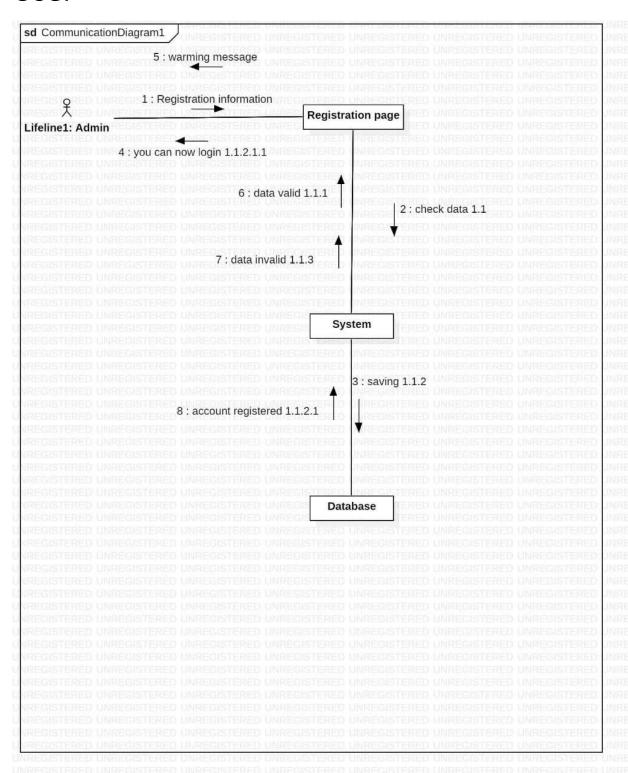
b)Callboration/Communication Daigram

Registration

Admin

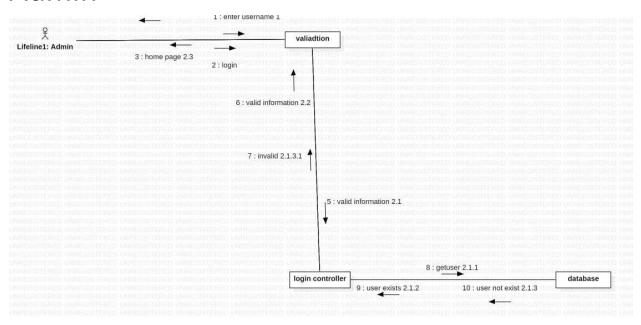


User

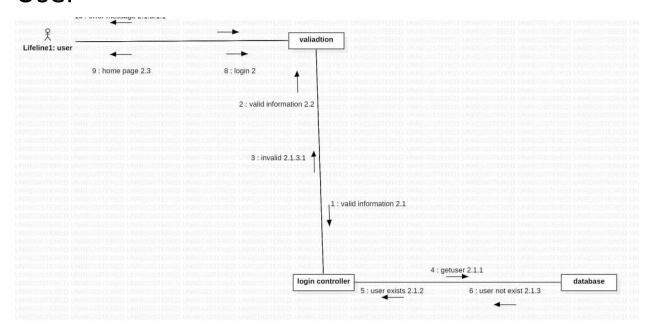


• Log in

Admin

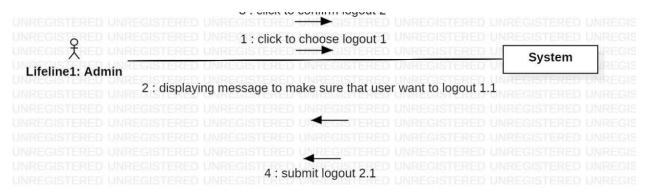


User

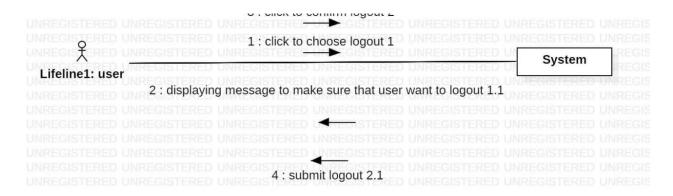


Log out

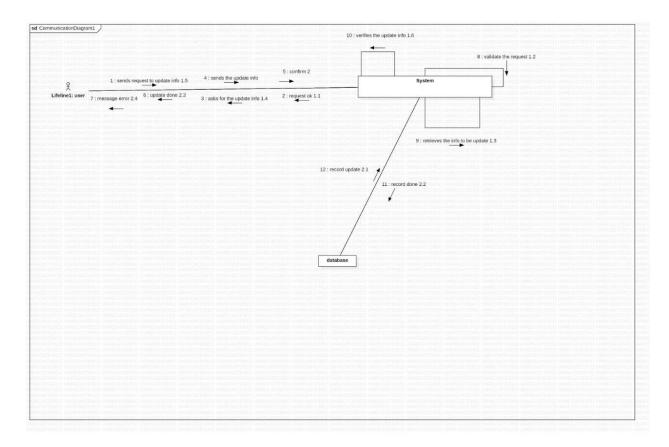
Admin



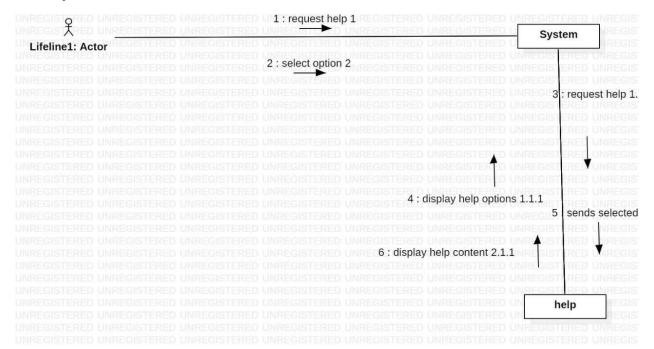
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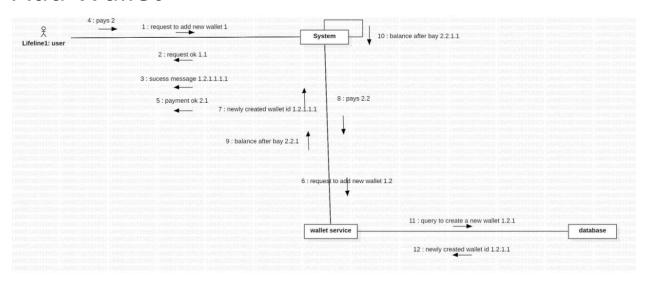
• Update Info



Help

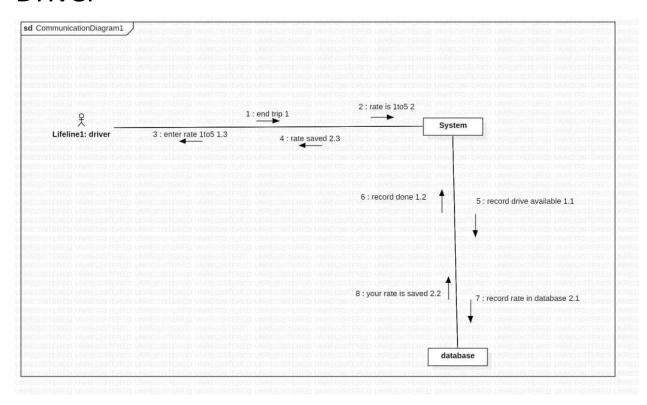


Add Wallet

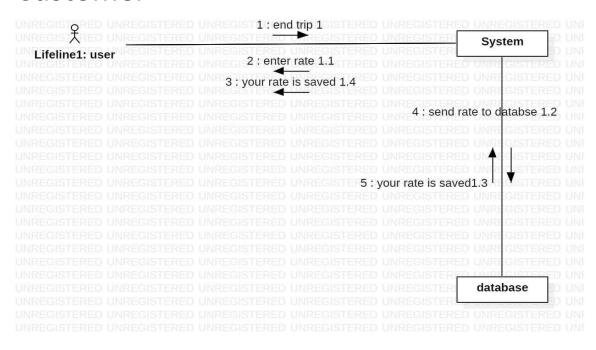


End Trip and Rate

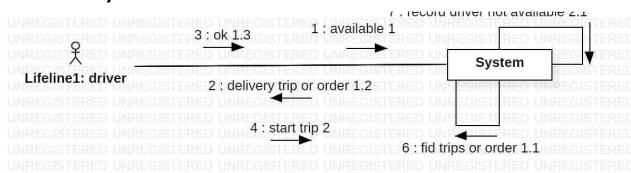
Driver



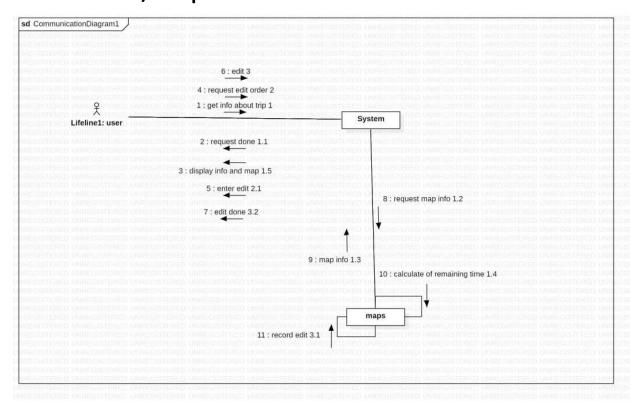
Customer



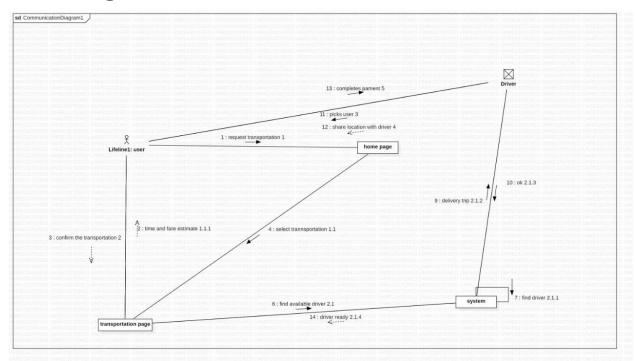
Delivery



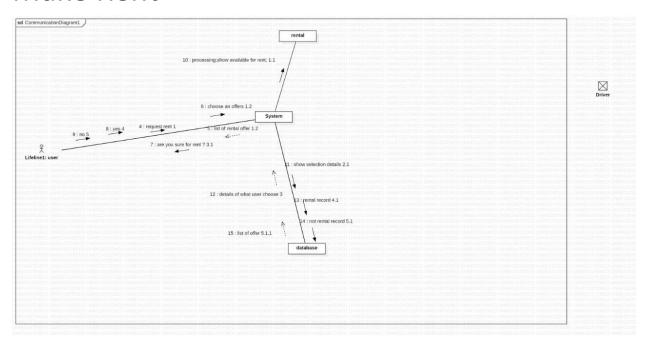
Follow Order/Trip



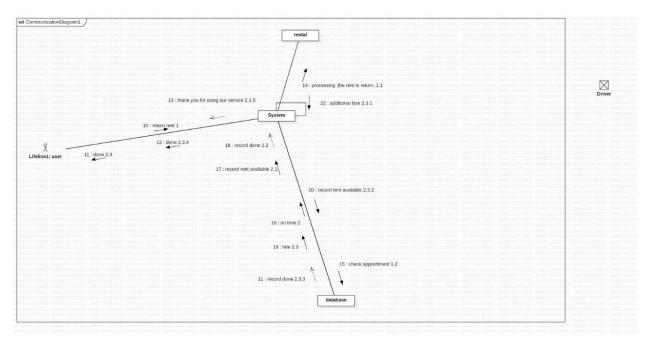
Booking



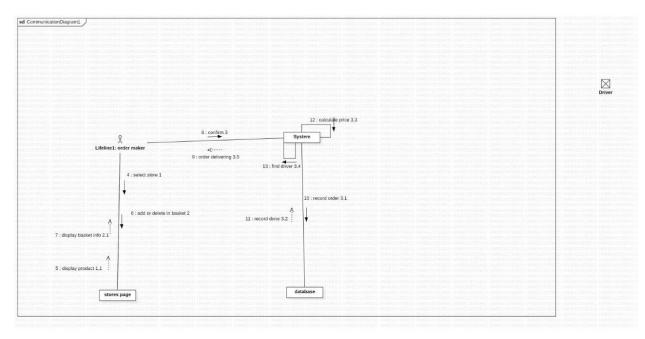
• Make Rent



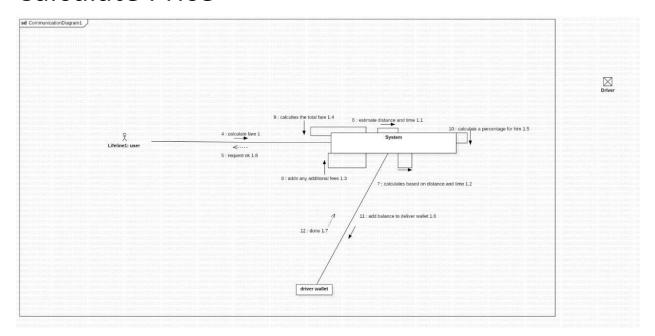
• Return Rent



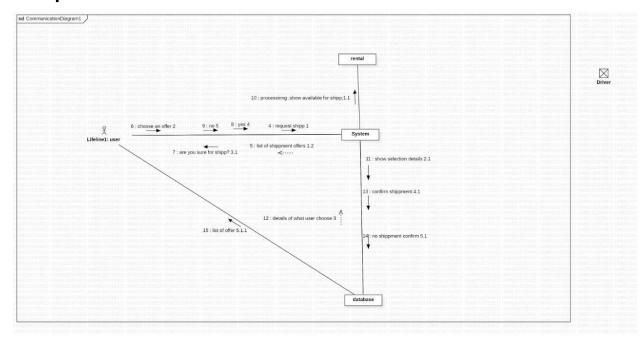
Browse and Make Order



• Calculate Price



Shipment



Select Payment Method And Pay

