



## **Assignment-2**

**Course Title:- System Analysis & Design**

**Course Code :- CSE-325**

**Assign. Name:- Generalization & Association.**

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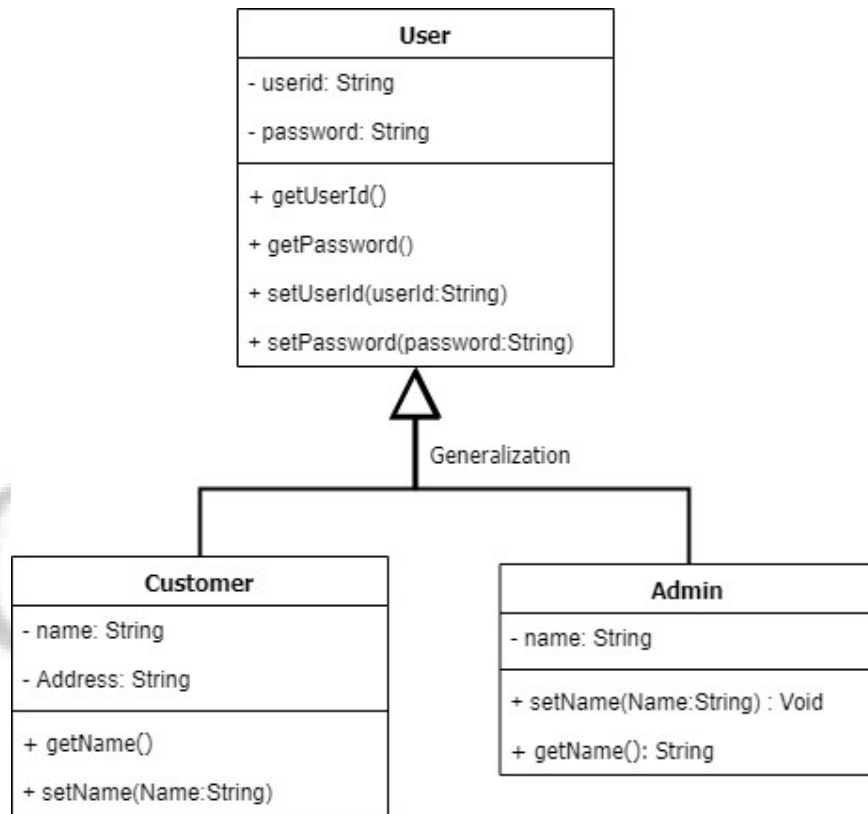
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## Generalization

Generalization is the process of extracting shared characteristics from two or more classes, and combining them into a generalized superclass. Shared characteristics can be attributes, associations, or methods.

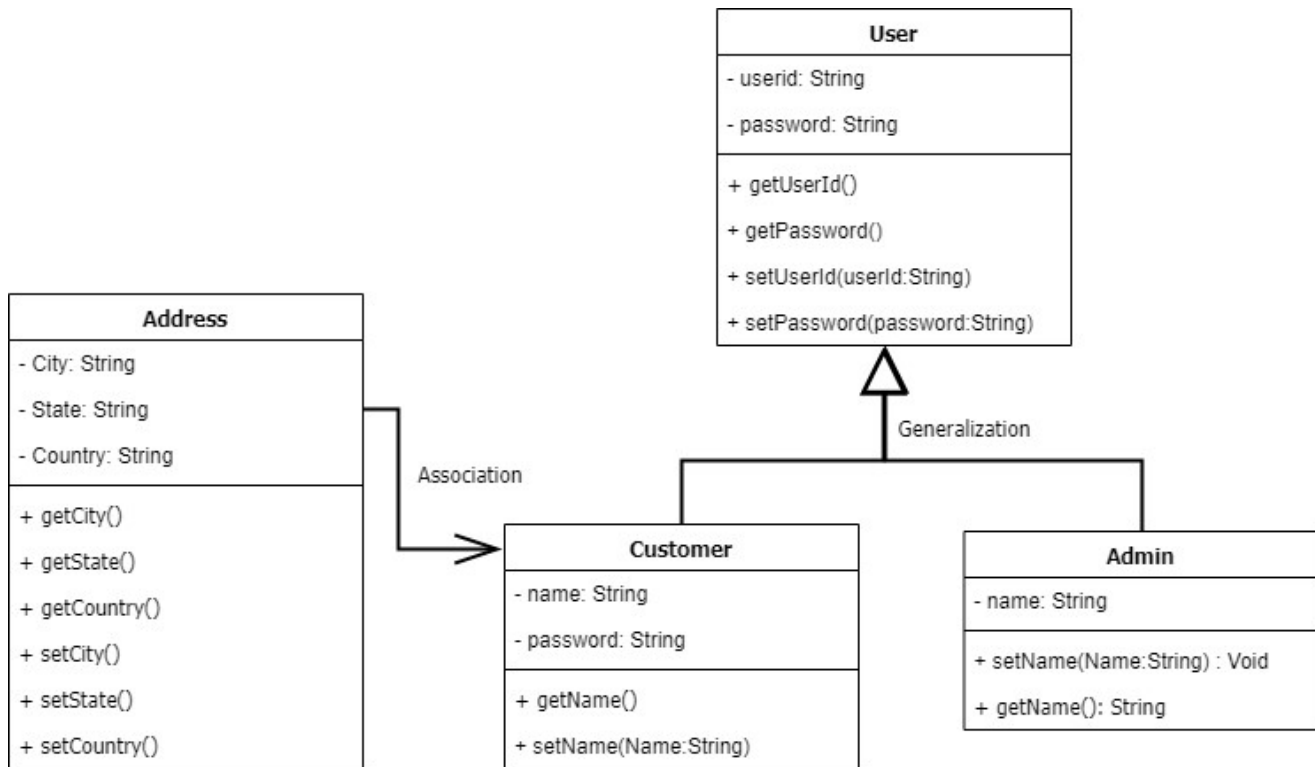


**Fig .1 : Diagram of Generalization**

In this figure, we see that there are two types of users so we made a User class which will contain common properties and then we have a Customer and Admin class which are an extension of User class and will have properties of User as well as their own. Here User is the parent/superclass and the other two are child/subclass. Customer User “is-a” User as well as the Admin User.

## Association

Association is a relationship between two objects. In other words, association defines the multiplicity between objects.



**Fig .2 : Diagram of Association**

In the above figure, one Address has many numbers of Customers. Therefore the relationship between the Address and Customers is one-many. And also those two are two different entities. Therefore the relationship between the two entities is called association.