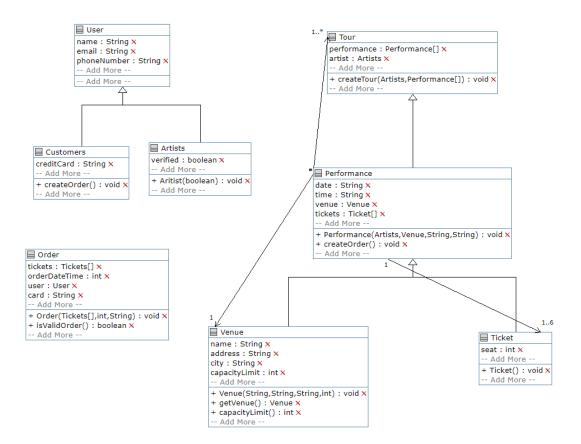
## Lab 3 - Umple - Group 11

## Question 1



```
class User {
   String name;
   String email;
   String phoneNumber;
}
class Tour{
   Performance[] performance;
   Artists artist;
```

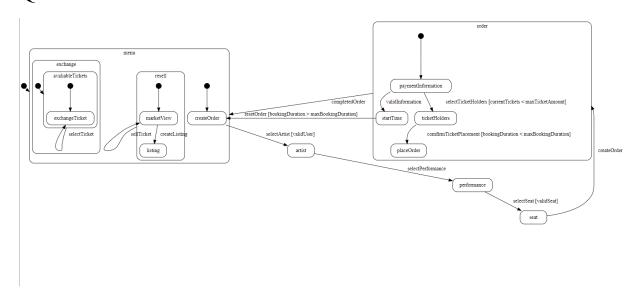
namespace System.core;

```
public createTour(Artists artist, Performance[] performance){
  if(artist.getVerified()){
   this.performance = performance;
   this.artist = artist;
  }else{
   return;
  }
  1..* <- * Performance;
}
class Performance{
 isA Tour;
 String date;
 String time;
 Artists artist;
 Venue venue;
 Ticket[] tickets;
 public Performance(Artists artist, Venue venue, String date, String time){
  if(artist.getVerified()){
   this.venue = venue;
   this.artist = artist;
   this.date = date;
   this.time = time;
   this.tickets = venue.getCapacityLimit();
  }else{
   return;
 public createOrder(){
  Order tempOrder = new Order(tickets, orderDateTime, creditCard);
```

```
if(tempOrder.isVaildOrder()){
}
class Venue {
 isA Performance;
 String name;
 String address;
 String city;
 int capacityLimit;
 public Venue(String name, String address, String city, int capacityLimit){
  this.name = name;
  this.address = address;
  this.city = city;
  this.capacityLimit = capacityLimit;
 }
 public Venue getVenue(){
  return this;
 }
 public int capacityLimit(){
  return this;
 }
 1 <- * Performance;
}
class Order {
 Tickets[] tickets;
 int orderDateTime;
 User user;
 String card;
```

```
public Order(Tickets[] ticket, int orderDateTime, String creditCard){
  this.card = creditCard;
  System.out.println(ticket);
 public boolean isValidOrder(){
  return this.card.length() == 16;
 }
}
class Ticket{
 is A Performance;
 int seat;
 public Ticket(){}
 1..6 <- 1 Performance;
}
class Artists {
 boolean verified;
 isA User;
 public Aritist(boolean verified){
  this.verified = verified;
 }
 public boolean getVerified(){
  return verified;
}
class Customers {
 isA User;
 String creditCard;
 public createOrder(){};
```

## Question 2



```
class BookingMenu{
  int maxTicketAmount = 6;
  int currentTickets = 0;
  Boolean bookingDuration;
  Boolean maxBookingDuration;
  Boolean validUser;
  Boolean validSeat;

state {
  menu {
    createOrder{
      selectArtist[validUser] -> artist;
    }
  resell {
      sellTicket -> marketView;
}
```

```
marketView {
    createListing -> listing;
  listing{
 exchange {
  avaliableTickets{
   selectTicket -> exchangeTicket;
   exchangeTicket {
}
artist{
 selectPerformance -> performance;
performance{
 selectSeat[validSeat] -> seat;
seat{
 createOrder -> order;
order{
```

```
paymentInformation{
    validInformation -> startTime;
    selectTicketHolders[currentTickets < maxTicketAmount ] -> ticketHolders;
   startTime {
    resetOrder[bookingDuration > maxBookingDuration] -> createOrder;
   ticketHolders{
    comfirmTicketPlacement[bookingDuration < maxBookingDuration] -> placeOrder;
   placeOrder{
   }
   completedOrder -> menu;
}
```