

UML Sequence Diagram illustrating the SearchCar process.

Participants:

- Renter (Actor)
- :Renter GUI
- :Renter Controller
- <<singleton>> :DBMgr
- msg:Msg

Message from Renter to :Renter GUI:

```
<<Capacity, Sdate, Stime, Edate, Etime, Utilities>>
```

Message from :Renter GUI to :Renter Controller:

```
CarList[] :=
```

Message from :Renter Controller to :DBMgr:

```
SearchCar(Capacity : int,  
Sdate:Date, Stime:Date,  
Edate: Date,Etime: Date,  
Utilities: Boolean)
```

Message from :Renter Controller to msg:Msg:

```
Car[] :=  
getAvailability():  
boolean
```

Message from :Renter Controller to msg:Msg:

```
Create()
```

Option guard:

```
Opt [Car[] == null]
```

Message from :Renter Controller to msg:Msg:

```
add("No cars Available")
```

Alt guard:

```
alt [CarList[] != null]
```

Return message from :Renter Controller to :Renter GUI:

```
<<Carlist[]>>
```

Else guard:

```
[else]
```

Return message from :Renter Controller to :Renter GUI:

```
<<msg>>
```

SearchCar will check for car list according to the passed parameters. If the list is not empty it will return the list else it will return an error message