```java
  1   /*
  2    * To change this license header, choose License Headers in Project        ↵
         Properties.
  3    * To change this template file, choose Tools | Templates
  4    * and open the template in the editor.
  5    */
  6   package fr.insalyon.dasi.gustatif.metier.modele;
  7
  8   import com.google.maps.model.LatLng;
  9   import java.io.Serializable;
 10   import java.util.ArrayList;
 11   import java.util.List;
 12   import javax.persistence.Column;
 13   import javax.persistence.Entity;
 14   import javax.persistence.GeneratedValue;
 15   import javax.persistence.GenerationType;
 16   import javax.persistence.Id;
 17   import javax.persistence.Inheritance;
 18   import javax.persistence.InheritanceType;
 19   import javax.persistence.JoinColumn;
 20   import javax.persistence.OneToMany;
 21   import javax.persistence.OrderBy;
 22   import javax.persistence.Version;
 23
 24   /**
 25    *
 26    * @author Nico
 27    */
 28   @Entity
 29   @Inheritance (strategy = InheritanceType.JOINED)
 30   public abstract class Livreur implements Serializable {
 31
 32       @Id
 33       @GeneratedValue(strategy = GenerationType.AUTO)
 34       private Long id;
 35       @Column(nullable = false)
 36       private String mail;
 37       @Column(nullable = false)
 38       private String motDePasse;
 39       @Column(nullable = false)
 40       private String adresse;
 41       @Column(nullable = false)
 42       private Double longitude;
 43       @Column(nullable = false)
 44       private Double latitude;
 45       @Column(nullable = false)
 46       private Double chargeMaxEnGrammes;
 47       @Column(nullable = false)
 48       private Boolean disponible;
 49   //    @JoinColumn(nullable = false)
 50       @OneToMany(mappedBy = "livreur")
 51       @OrderBy("dateDebut DESC")
 52       private List<Commande> commandes;
 53       @Version
```

```java
 54        @Column(name = "VERSION")
 55        private Integer version;
 56
 57        public Livreur(){
 58            this.commandes = new ArrayList<>();
 59        }
 60
 61        public Livreur(String mail, String motDePasse, String adresse,
 62                Double chargeMaxEnGrammes) {
 63            this.commandes = new ArrayList<>();
 64            this.mail = mail;
 65            this.motDePasse = motDePasse;
 66            this.adresse = adresse;
 67            this.chargeMaxEnGrammes = chargeMaxEnGrammes;
 68            this.disponible = true;
 69        }
 70
 71        public Long getId() {
 72            return id;
 73        }
 74
 75        public String getMail() {
 76            return mail;
 77        }
 78
 79        public String getMotDePasse() {
 80            return motDePasse;
 81        }
 82
 83        public String getAdresse() {
 84            return adresse;
 85        }
 86
 87        public Double getLongitude() {
 88            return longitude;
 89        }
 90
 91        public Double getLatitude() {
 92            return latitude;
 93        }
 94
 95        public LatLng getLatLng() {
 96            return new LatLng(latitude, longitude);
 97        }
 98
 99        public Double getChargeMaxEnGrammes() {
100            return chargeMaxEnGrammes;
101        }
102
103        public List<Commande> getCommandes() {
104            return commandes;
105        }
106
107        public Boolean getDisponible() {
```

```java
108            return disponible;
109        }
110
111        public void setMail(String mail) {
112            this.mail = mail;
113        }
114
115        public void setMotDePasse(String motDePasse) {
116            this.motDePasse = motDePasse;
117        }
118
119        public void setAdresse(String adresse) {
120            this.adresse = adresse;
121        }
122
123        public void setCoordonnees(LatLng latLng) {
124            this.longitude = latLng.lng;
125            this.latitude = latLng.lat;
126        }
127
128        public void setChargeMaxEnGrammes(Double chargeMaxEnGrammes) {
129            this.chargeMaxEnGrammes = chargeMaxEnGrammes;
130        }
131
132        public void setDisponible(Boolean disponible) {
133            this.disponible = disponible;
134        }
135
136        public void addCommande(Commande commande) {
137            this.commandes.add(commande);
138        }
139
140        @Override
141        public String toString() {
142            return "Livreur{" + "id=" + id + ", mail=" + mail + ",
                   motDePasse="
143                    + motDePasse + ", adresse=" + adresse + ", longitude="
144                    + longitude + ", latitude=" + latitude
145                    + ", chargeMaxEnGrammes=" + chargeMaxEnGrammes
146                    + ", disponible " + disponible +", commandes=[" +
                       commandes
147                    + "]" + '}';
148        }
149    }
```