

```
1 package br.com.uniamerica.estacionamento.entity;
2 import jakarta.persistence.Column;
3 import jakarta.persistence.Entity;
4 import jakarta.persistence.Table;
5 import lombok.Getter;
6 import lombok.Setter;
7
8 import java.time.LocalDateTime;
9 import java.time.LocalTime;
10 @Entity
11 @Table(name = "Condutores", schema = "public")
12 public class Condutor extends Entity {
13     @Getter
14     @Setter
15     @Column(name = "nm-condutor", nullable = false,
16         length = 100)
17     private String nome;
18     @Getter
19     @Setter
20     @Column(name = "num-cpf-condutor", nullable =
21         false, unique = true, length = 12)
22     private String cpf;
23     @Getter
24     @Setter
25     @Column(name = "num-tel-condutor", nullable =
26         false, length = 17)
27     private String telefone;
28
29     @Getter
30     @Setter
31     @Column(name = "ds-tempo-pago", nullable = false)
32     private LocalTime tempoPago;
33
34     @Getter
35     @Setter
36     @Column(name = "ds-tempo-desconto", nullable =
37         false)
38     private LocalTime tempoDesconto;
39 }
```

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2
3 import jakarta.persistence.Column;
4 import jakarta.persistence.Entity;
5 import jakarta.persistence.Table;
6 import lombok.Getter;
7 import lombok.Setter;
8
9 import java.math.BigDecimal;
10 import java.time.LocalDateTime;
11 @Entity
12 @Table(name = "configuracoes", schema = "public")
13 public class Configuracao extends Entity{
14     @Getter @Setter
15     @Column(name = "num-valor-hora", nullable = false
16 )
17     private BigDecimal valorHora;
18     @Getter @Setter
19     @Column(name = "num-valor-minuto-multa", nullable
20 = false)
21     private BigDecimal valorMinutoHora;
22     @Getter @Setter
23     @Column(name = "ds-inicio-atendimento", nullable
24 = false)
25     private LocalDateTime inicioExpediente;
26     @Getter @Setter
27     @Column(name = "ds-fim-atendimento", nullable =
28 false)
29     private LocalDateTime fimExpediente;
30     @Getter @Setter
31     @Column(name = "num-gera-desconto", nullable =
32 false)
33     private LocalDateTime tempoParaDesconto;
34     @Getter @Setter
35     @Column(name = "num-tempo-desconto", nullable =
36 false)
37     private LocalDateTime tempoDeDesconto;
38     @Getter @Setter
39     @Column(name = "tp-gerar-desconto", nullable =
40 false)
41     private boolean gerarDesconto;
```

```
35     @Getter @Setter
36     @Column(name = "num-vaga-moto", nullable = false)
37     private int vagasMoto;
38     @Getter @Setter
39     @Column(name = "num-vaga-carro", nullable = false
40 )
41     private int vagasCarro;
42     @Getter @Setter
43     @Column(name = "num-vaga-van", nullable = false)
44     private int vagasVan;
45
46
47 }
48
```

```
1 package br.com.uniamerica.estacionamento.entity;  
2  
3 public enum Cor {  
4     Branco, Azul, Amarelo, Preto, Cinza, Roxo, Vinho  
5     , Laranja, Grafite  
6  
7 }  
8
```

```
1 package br.com.uniamerica.estacionamento.entity;
2 import jakarta.persistence.*;
3 import lombok.Getter;
4 import lombok.Setter;
5
6 import java.time.LocalDateTime;
7
8 /**
9  * @autor Thiago Cavalcante
10  *
11  * @version 1.0.0.0 20/03/2023
12  * @since 1.0.0
13  */
14 @MappedSuperclass//indica para o hibernate que esta é
    a classe a ser implementada em todas as outras
15 public abstract class Entitty {
16     @Id
17     @GeneratedValue(strategy = GenerationType.AUTO)
18     @Getter
19     @Column(name = "id", nullable = false, unique =
        true)
20     protected Long id;
21     @Getter @Setter
22     @Column(name = "dtCadastro", nullable=false )
23     private LocalDateTime cadastro;
24     @Getter @Setter
25     @Column(name = "dtEdicao")
26     private LocalDateTime edicao;
27     @Column(name = "stAtivo", nullable=false )
28     @Getter @Setter
29     private boolean ativo;
30
31
32     @PrePersist
33     private void prePersist (){
34         this.cadastro = LocalDateTime.now();
35         this.ativo = true;
36     }
37
38     @PreUpdate
39     private void preUpdate(){
```

```
40         this.edicao = LocalDateTime.now();  
41     }  
42  
43 }  
44
```

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2
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4 import jakarta.persistence.Entity;
5 import jakarta.persistence.Table;
6 import lombok.Getter;
7 import lombok.Setter;
8
9
10 @Entity
11 @Table(name = "marca", schema = "public")
12 public class Marca extends Entity{
13     @Getter @Setter
14     @Column(name = "nm-marca", nullable = false)
15     private String nome;
16
17
18 }
19
```

```
1 package br.com.uniamerica.estacionamento.entity;
2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 @Entity
8 @Table(name = "modelos", schema = "public")
9 public class Modelo extends Marca {
10     @Getter
11     @Setter
12     @Column(name = "nm-modelo", nullable = false,
13         length = 100)
14     private String nome;
15     @Getter
16     @Setter
17     @JoinColumn(name = "nm-marca-carro")
18     @ManyToOne
19     private Marca marca;
20 }
21
22
```



```
1 package br.com.uniamerica.estacionamento.entity;
2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 import java.math.BigDecimal;
8 import java.time.LocalDateTime;
9 import java.time.LocalTime;
10 @Entity
11 @Table(name = "movimentacoes", schema = "public")
12 public class Movimentacao extends Entity {
13     @Getter
14     @Setter
15     @JoinColumn(name = "co-veiculo")
16     @ManyToOne
17     private Veiculo veiculo;
18     @Getter
19     @Setter
20     @JoinColumn(name = "co-condutor")
21     @ManyToOne
22     private Condutor condutor;
23     @Getter
24     @Setter
25     @Column(name = "dt-entrada", nullable = false)
26     private LocalDateTime entrada;
27     @Getter
28     @Setter
29     @Column(name = "dt-saida")
30     private LocalDateTime saida;
31     @Getter
32     @Setter
33     @Column(name = "ds-tempo-uso")
34     private LocalTime tempo;
35     @Getter
36     @Setter
37     @Column(name = "ds-tempo-desconto")
38     private LocalTime tempoDesconto;
39     @Getter
40     @Setter
41     @Column(name = "ds-tempo-multas")
```

```
42     private LocalDateTime tempoMulta;
43     @Getter
44     @Setter
45     @Column(name = "vl-desconto")
46     private BigDecimal valorDesconto;
47     @Getter
48     @Setter
49     @Column(name = "ds-valor-multa")
50     private BigDecimal valorMulta;
51     @Getter
52     @Setter
53     @Column(name = "ds-valor-total")
54     private BigDecimal valorTotal;
55     @Getter
56     @Setter
57     @Column(name = "ds-valor-hora")
58     private BigDecimal valorHora;
59     @Getter
60     @Setter
61     @Column(name = "ds-valor-hora-multa")
62     private BigDecimal valorHoraMulta;
63
64 }
65
```

```
1 package br.com.uniamerica.estacionamento.entity;  
2  
3 public enum Tipo {  
4     Carro, Van, Moto  
5 }  
6
```

```
1 package br.com.uniamerica.estacionamento.entity;
2
3 import jakarta.persistence.*;
4 import lombok.Getter;
5 import lombok.Setter;
6
7 import java.time.LocalDateTime;
8 @Entity
9 @Table(name = "veiculos", schema = "public")
10 public class Veiculo extends Entity{
11     @Getter @Setter
12     @Column(name = "ds-placa-veiculo", nullable =
13         false, length = 7)
14     private String placa;
15     @Getter @Setter
16     @JoinColumn(name = "nm-modelo", nullable = false)
17     @ManyToOne
18     private Modelo modelo;
19     @Getter @Setter
20     @Column(name = "ds-cor", nullable = false, length
21         = 20)
22     @Enumerated(EnumType.STRING)
23     private Cor cor;
24     @Getter @Setter
25     @Column(name = "tp-veiculo", nullable = false,
26         length = 5)
27     @Enumerated(EnumType.STRING)
28     private Tipo tipo;
29     @Getter @Setter
30     @Column(name = "num-ano-veiculo", nullable =
31         false)
32     private int ano;
33 }
```