

Appendice B:

Hibernate

Per la persistenza dei dati è stato utilizzato “Hibernate”, un tool full ORM (Object-relational mapping) open source, collegandolo tramite jdbc a un database remoto, Amazon RDS con engine MySQL.

```
1 <!DOCTYPE hibernate-configuration PUBLIC
2     "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
3     "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
4
5 <hibernate-configuration>
6
7     <session-factory>
8
9         <!-- JDBC Database connection settings -->
10        <property name="connection.driver_class">com.mysql.jdbc.Driver</property>
11        <property name="connection.url">jdbc:mysql://gash-db.cre8x1bx4cxq.eu-west-1.rds.amazonaws.com:3306/gash_db</property>
12        <property name="connection.username">admin</property>
13        <property name="connection.password">*****</property>
14
15        <!-- JDBC connection pool settings ... using built-in test pool -->
16        <property name="connection.pool_size">1</property>
17
18        <!-- Select our SQL dialect -->
19        <property name="dialect">org.hibernate.dialect.MySQLDialect</property>
20
21        <!-- Echo the SQL to stdout -->
22        <property name="show_sql">>true</property>
23
24        <property name="hibernate.current_session_context_class">thread</property>
25
26    </session-factory>
27 </hibernate-configuration>
```

Figure 1 File configurazione hibernate.cfg.xml

Java Hibernate annotations

```
1 package classes;
2
3 import javax.persistence.Column;
4
5
6 @Entity
7 @Table(name="Cliente")
8 public class Cliente {
9     @Id //Primary key
10    @Column(name="codiceFiscale")
11    private String codiceFiscale;
12
13    @Column(name="nomecognome_o_ragionesociale")
14    private String nomecognome_o_ragionesociale;
15
16    @Column(name="partitaIVA")
17    private int partitaIVA;
18
19    @Column(name="domicilioFiscale")
20    private String domicilioFiscale;
21
22    @Column(name="email")
23    private String email;
24
25    @Column(name="numVendite")
26    private int numVendite=0;
27
28 }
```

Figure 2 Classe Cliente persistente

```

1 package classes;
2 import org.hibernate.Session;
3
4
5
6
7 public class HibernateUtil {
8
9     private static SessionFactory factory;
10
11     static {
12         try{
13
14             factory = new Configuration()
15                 .configure("hibernate.cfg.xml")
16                 .addAnnotatedClass(Cliente.class)
17                 .buildSessionFactory();
18         } catch (Exception e){
19             e.printStackTrace();
20         }
21     }
22
23
24     public static SessionFactory getFactory() {
25         return factory;
26     }
27     public static void kill(){
28         factory.close();
29     }
30 }
31

```

Figure 3 HibernateUtil