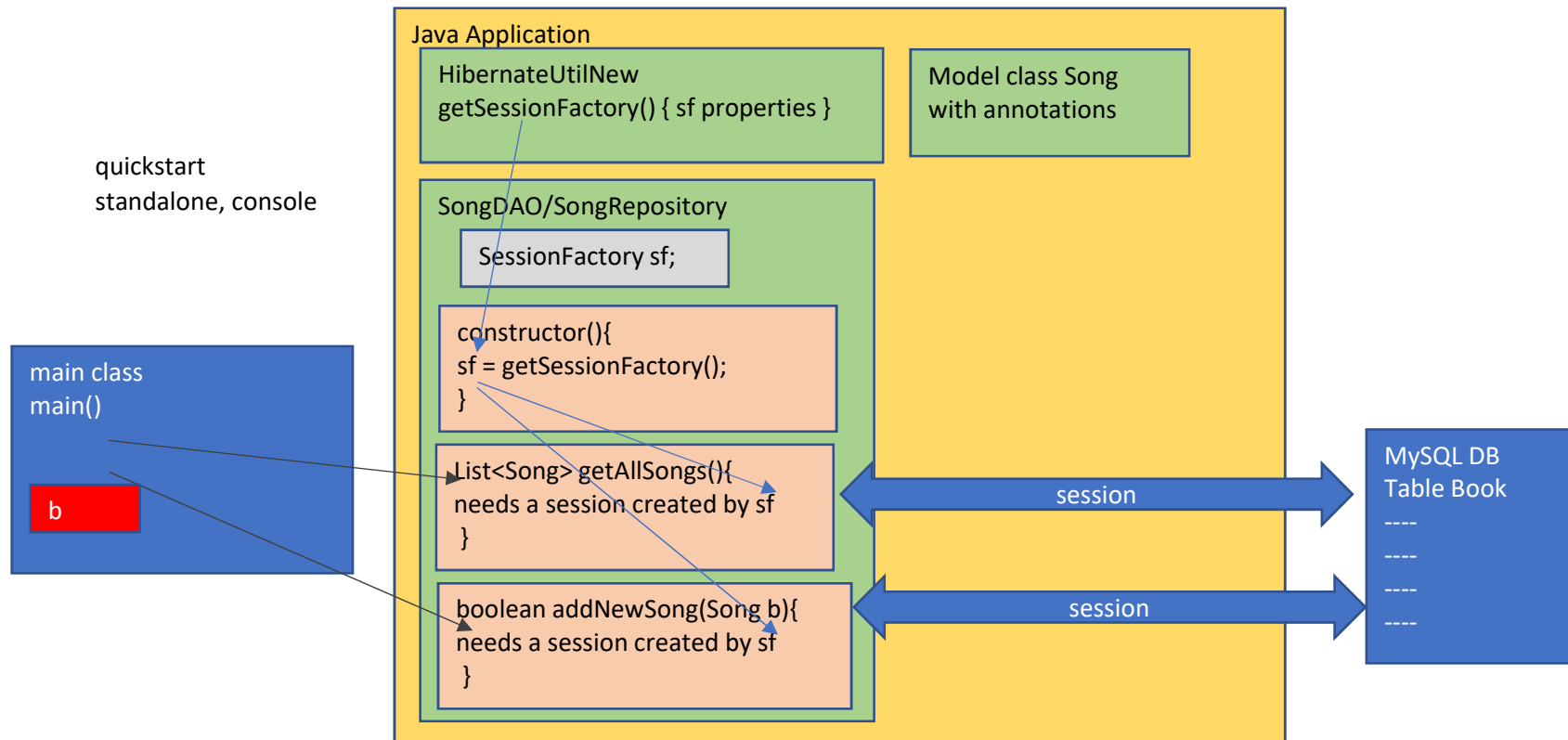


In the above example

SessionFactory configuration is done xml format

Model class mapping is done xml format

HibernateUtil.getSessionFactory() loading the configurations



Changes

No xml files

sessionFactory configuration is done withing UTIL class method only

Model class is mapped with table using annotations withing model

What is annotation

Used to provide additional info to compiler about
method/variable/param/class/interface/..

@Override

1 Create model class

class <-> table

which member variable of class representing primary key table

@Entity

Used at class level

Used to map java class with DB table

@Id

Used at member variable level within entity class

Used to map with primary key in DB table

class Song

songId

songName, duration, artist

Here, Song class must be annotated with @Entity

songId variable must be annotated with @Id

```
6  @Entity
7  public class Song {
8      4 usages
9      @Id
10     private String songId;
11     4 usages
12     private String songName, duration, artist;
13
14     public Song() {
15     }
16 }
```

2 Define sessionFactory in UTIL class method

```
13 public class HibernateUtilNew {
14     public static SessionFactory getSessionFactory(){
15         SessionFactory sf=null;
16         try{
17             // create properties with hibernate info
18             // driver,url,uid,pwd, dialect, show_sql, hbm2ddl_auto
19             Properties properties = new Properties();
20             // Driver : com.mysql.cj.jdbc.Driver // URL : jdbc:mysql://localhost:3306/wave31db
21             // properties.put(property, value);
22             properties.put(Environment.DRIVER,"com.mysql.cj.jdbc.Driver");
23             properties.put(Environment.URL,"jdbc:mysql://localhost:3306/wave31db");
24             properties.put(Environment.USER,"root");
25             properties.put(Environment.PASS,"password");
26             properties.put(Environment.DIALECT,"org.hibernate.dialect.MySQL8Dialect");
27             properties.put(Environment.SHOW_SQL,"true");
28             properties.put(Environment.HBM2DDL_AUTO,"update");
29             Configuration cfg = new Configuration();
30             cfg.setProperties(properties);
31             cfg.addAnnotatedClass(Song.class);
32             // add total package, array with multiple model classes
33             StandardServiceRegistryBuilder ssrb = new StandardServiceRegistryBuilder();
34             ssrb.applySettings(cfg.getProperties());
35             ServiceRegistry registry = ssrb.build();
36             sf = cfg.buildSessionFactory(registry);
37         }
38         catch(Exception ex){
39             ex.printStackTrace();
40         }
41         return sf;
42     }
43 }
```

3 Define DAO class, get sf object

HibernateUtilNew.getSessionFactory()

```
1 package org.example.dao;
2
3 import org.example.configuration.HibernateUtilNew;
4 import org.example.model.Song;
5 import org.hibernate.SessionFactory;
6
7 import java.util.List;
8
9 public class SongDAO {
10     1 usage
11     SessionFactory sf;
12
13     public SongDAO(){
14         sf= HibernateUtilNew.getSessionFactory();
15     }
16
17     public List<Song> getAllSongs() {
18         return null;
19     }
20
21     public boolean addSong(Song s){
22         return true;
23     }
24 }
```

4 Define main class with main()

create object of dao class

```
1 package org.example.application;
2
3 import org.example.dao.SongDAO;
4
5 public class HibernateSongMain1 {
6     public static void main(String[] args) {
7         SongDAO songDao = new SongDAO();
8     }
9 }
```