

Annotate Java Class

Hibernate Dev Process - To Do List

1. Add Hibernate Configuration file
2. Annotate Java Class
3. Develop Java Code to perform database operations

Terminology

Entity Class

Java class that is mapped to a database table

Object-to-Relational Mapping (ORM)

Java Class

Student
- id : int - firstName : String - lastName : String - email : String ...

Hibernate

Database Table

student
id INT first_name VARCHAR(45) last_name VARCHAR(45) email VARCHAR(45) Indexes

Two Options for Mapping

- Option 1: XML config file (legacy)
- Option 2: Java Annotations (modern, preferred)

Java Annotations

- Step 1: Map class to database table
- Step 2: Map fields to database columns

Step 1: Map class to database table

```
@Entity
@Table(name="student")
public class Student {

    ...

}
```

Java Class

Student
- id : int - firstName : String - lastName : String - email : String ...

Database Table

student
id INT first_name VARCHAR(45) last_name VARCHAR(45) email VARCHAR(45) Indexes

Step 2: Map fields to database columns

```
@Entity
@Table(name="student")
public class Student {

    @Id
    @Column(name="id")
    private int id;

    @Column(name="first_name")
    private String firstName;
    ...
}
```

Java Class

Student
- id : int
- firstName : String
- lastName : String
- email : String
...

Database Table

student
id INT
first_name VARCHAR(45)
last_name VARCHAR(45)
email VARCHAR(45)
Indexes