**23.3. OneToOne-UNI-Development Process**

**Development process (One-To-One-UNI)**:

1. Prep Work
2. Create InstructorDetail class
3. Create Instructor class
4. Create Main App

**1) Pre Work**:

1. Creating database and Tables
2. Create a project

**2) Create InstructorDetail class**:

**package** com.ruhul.odduu.hibernate.entity;

**import** javax.persistence.Column;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

//annotate the class class as an entity and map to BD table

@Entity

@Table(name = "instructor\_detail")

**public** **class** InstructorDetail {

// define the fields

// annotate the field with BD column name

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

@Column(name = "id")

**private** **int** id;

@Column(name = "youtube\_channel")

**private** String youtubeChannel;

@Column(name = "hobby")

**private** String hobby;

// create constructors

**public** InstructorDetail() {

}

**public** InstructorDetail(String youtubeChannel, String hobby) {

**this**.youtubeChannel = youtubeChannel;

**this**.hobby = hobby;

}

// generate getter and setter methods

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getYoutubeChannel() {

**return** youtubeChannel;

}

**public** **void** setYoutubeChannel(String youtubeChannel) {

**this**.youtubeChannel = youtubeChannel;

}

**public** String getHobby() {

**return** hobby;

}

**public** **void** setHobby(String hobby) {

**this**.hobby = hobby;

}

// generate toString() method

@Override

**public** String toString() {

**return** "InstructorDetail [id=" + id + ", youtubeChannel=" + youtubeChannel + ", hobby=" + hobby + "]";

}

}

**3) Create Instructor class**:

**package** com.ruhul.odduu.hibernate.entity;

**import** javax.persistence.CascadeType;

**import** javax.persistence.Column;

**import** javax.persistence.Entity;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.JoinColumn;

**import** javax.persistence.OneToOne;

**import** javax.persistence.Table;

//annotate the class class as an entity and map to BD table

@Entity

@Table(name = "instructor")

**public** **class** Instructor {

// define the fields

// annotate the field with BD column name

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

@Column(name = "id")

**private** **int** id;

@Column(name = "first\_name")

**private** String firstName;

@Column(name = "last\_name")

**private** String lastName;

@Column(name = "email")

**private** String email;

// set up mapping to InstructorDetail entity

@OneToOne(cascade = CascadeType.***ALL***)

@JoinColumn(name = "instructor\_detail\_id")

**private** InstructorDetail instructorDetail;

// generate constructor

**public** Instructor() {

}

**public** Instructor(String firstName, String lastName, String email) {

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.email = email;

}

// generate getter and setter methods

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** InstructorDetail getInstructorDetail() {

**return** instructorDetail;

}

**public** **void** setInstructorDetail(InstructorDetail instructorDetail) {

**this**.instructorDetail = instructorDetail;

}

// generate toString() method

@Override

**public** String toString() {

**return** "Instructor [id=" + id + ", firstName=" + firstName + ", lastName=" + lastName + ", email=" + email

+ "]";

}

}

**4) Create Main App**:

**package** com.ruhul.odduu.hibernate.demo;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

**import** org.hibernate.cfg.Configuration;

**import** com.ruhul.odduu.hibernate.entity.Instructor;

**import** com.ruhul.odduu.hibernate.entity.InstructorDetail;

**public** **class** CreateDemo {

**public** **static** **void** main(String args[]) {

// create session factory

SessionFactory factory = **new** Configuration()

.configure("hibernate.cfg.xml")

.addAnnotatedClass(Instructor.**class**)

.addAnnotatedClass(InstructorDetail.**class**)

.buildSessionFactory();

// create session

Session session = factory.getCurrentSession();

**try** {

// create the object

Instructor tempInstructor =

**new** Instructor("Razaul", "Islam", "reza@gmail.com");

InstructorDetail tempInstructorDetail =

**new** nstructorDetail(

"https://www.graphicsstepbystep.com", "Designing");

// associate the objects

tempInstructor.setInstructorDetail(tempInstructorDetail);

// start transaction

session.beginTransaction();

// save the instructor

// Note: this will ALSO save the tempInstructorDetail object because of CascadeType.ALL

System.***out***.println("Saving instrucror: "+tempInstructor);

session.save(tempInstructor);

// commit the transaction

session.getTransaction().commit();

System.***out***.println("Done!!!");

} **finally** {

factory.close();

}

}

}

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