**Adding a New Product in the Database**

**Project objective:**

Create a servlet-based web application that shows a form to add new products. A MySQL database will be created to store product data. The form data will be validated, and a row will be added to the database. All database processing will be done using Hibernate.

**Background of the problem statement:**

As a part of developing an e-commerce web application, you have to create a database table for storing product information. A form is needed to add new products. The form submission is validated, and a new record is created in the product table.

**Source Code :-**

**package** com.damu.training;

**import** javax.persistence.Column;

**import** javax.persistence.GeneratedValue;

**import** javax.persistence.GenerationType;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

@javax.persistence.Entity

@Table(name = "students")

**public** **class** students {

**public** String getname() {

**return** getname();

}

**public** **void** setname(String name ) {

**this**.name = name;

}

**public** **int** gets\_id() {

**return** *s\_id*;

}

**public** **void** sets\_id(**int** s\_id) {

**this**.*s\_id* = s\_id;

}

**public** String gets\_course() {

**return** s\_course;

}

**public** **void** sets\_course(String s\_course) {

**this**.s\_course = s\_course;

}

**public** **int** getc\_id() {

**return** c\_id;

}

**public** **void** setc\_id(**int** c\_id) {

**this**.c\_id = c\_id;

}

@Id

@Column(name="c\_id")

**int** c\_id;

@Column(name = "s\_course")

String s\_course;

@Column(name = "s\_id")

**int** *s\_id*;

@Column(name="name")

// @GeneratedValue(strategy = GenerationType.IDENTITY)

String name;

**public** students() {

// **TODO** Auto-generated constructor stub

}

@Override

**public** String toString() {

**return** "Learner [learnerId=" + name + ", learnerName=" + *s\_id* + ", learnerDomain=" + s\_course+",courseid="+c\_id

+ "]";

}

**public** students(String name,**int** s\_id, String s\_course,**int** c\_id) {

**this**.name = name;

**this**.*s\_id*=s\_id;

**this**.s\_course=s\_course;

**this**.c\_id=c\_id;

// this.learnerDomain = learnerDomain;

}

}

**package** com.damu.training;

**import** java.util.List;

**import** org.hibernate.Session;

**import** org.hibernate.SessionFactory;

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

**public** **class** App

{

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

{

// Get the SessionFactory

SessionFactory factory = **new** Configuration()

.configure("hibernate.cfg.xml")

.addAnnotatedClass(students.**class**)

.buildSessionFactory();

// Get the Session

Session theSession = factory.getCurrentSession();

**try** {

// Add a new learner

students theLearner = **new** students("m.anil",109,"devops",1105);

// Start the transaction

theSession.beginTransaction();

// Save the learner

theSession.save(theLearner);

// Commit the transaction

theSession.getTransaction().commit();

System.***out***.println("new students sucessfully inserted ");

System.***out***.println("Learner id : " + theLearner.name);

// Learner learner = theSession.get(Learner.class, 2);

//

// System.out.println("Learner details by id : " + learner);

}**finally** {

factory.close();

}

}

}

**Output :-**

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated