

## Lecture 06: Successful Attempt to Save Data

### Important Version Note

#### Save() Method Deprecation:

- `save()` method was **removed in Hibernate 7.1.0**
- `save()` method was **deprecated in version 6.6.3**
- Use `persist()` method instead for newer versions

### Creating Hibernate Configuration File

Create `hibernate.cfg.xml` in the `src/main/resources` directory:

```
<!DOCTYPE hibernate-configuration PUBLIC
    "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
    "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>
    <session-factory>
        <!-- Database connection properties -->
        <property name="hibernate.connection.driver_class">org.postgresql.Driver</property>
        <property
name="hibernate.connection.url">jdbc:postgresql://localhost:5432/telusko</property>
        <property name="hibernate.connection.username">postgres</property>
        <property name="hibernate.connection.password">0000</property>

        <!-- Hibernate properties -->
        <property name="hibernate.hbm2ddl.auto">update</property>

    </session-factory>
</hibernate-configuration>
```

### Updated Student Entity with Annotations

```
import jakarta.persistence.Entity;
import jakarta.persistence.Id;
```

```
@Entity
public class Student {
    @Id
    private int rollNo;
    private String name;
    private int age;
```

*// Constructors, getters, and setters remain the same*

```
}
```

## Successful Save Implementation

```
public class Main {  
    public static void main(String[] args) {  
        Student s1 = new Student();  
        s1.setName("Navin");  
        s1.setRollNo(101);  
        s1.setAge(30);  
  
        Configuration cfg = new Configuration();  
        cfg.addAnnotatedClass(com.telusko.Student.class);  
        cfg.configure();  
  
        SessionFactory sf = cfg.buildSessionFactory();  
        Session session = sf.openSession();  
  
        Transaction transaction = session.beginTransaction();  
  
        session.save(s1); // or use session.persist(s1) for newer versions  
  
        transaction.commit();  
  
        System.out.println(s1);  
    }  
}
```

## Key Success Factors

1. **Configuration file:** Properly configured database connection
2. **Entity annotations:** `@Entity` and `@Id` annotations
3. **Class registration:** Adding annotated class to configuration
4. **Transaction management:** Beginning and committing transactions