

Hibernate Examples

OpenMRS currently uses [Hibernate](#) to connect the OpenMRS objects to the relational database tables.

You can see the hibernate mapping files in [source:openmrs/trunk/metadata/api/hibernate].

[Modules](#) must add hibernate.hbm.xml files to their /metadata file AND reference them in their config.xml files in the <mappingFiles> element.

[\[edit\]](#)

Example Java Object

```
package org.openmrs;

import java.util.Collection;
import java.util.Date;
import java.util.HashSet;
import java.util.Locale;

/**
 * ConceptName is the real world term used to express a Concept within the idiom of a particular
 * locale.
 */
public class ConceptName extends BaseOpenmrsObject implements Auditable {

    // Fields
    private Integer conceptNameId;

    private Concept concept;

    private String name;

    private Locale locale;

    private Collection<ConceptNameTag> tags;

    // Constructors

    /** default constructor */
    public ConceptName() {
    }

    /**
     * Convenience constructor to create a ConceptName object by primary key
     *
     * @param conceptNameId
     */
    public ConceptName(Integer conceptNameId) {
        this.conceptNameId = conceptNameId;
    }

    /**
     * @see java.lang.Object#equals(java.lang.Object)
     */
    public boolean equals(Object obj) {
        if (!(obj instanceof ConceptName)) {
            return false;
        }
        ConceptName rhs = (ConceptName) obj;
        if (this.conceptNameId != null && rhs.conceptNameId != null)
            return (this.conceptNameId.equals(rhs.conceptNameId));
        else
            return this == obj;
    }

    /**
     * @see java.lang.Object#hashCode()
     */
    public int hashCode() {
```

```

        if (this.getConceptNameId() == null)
            return super.hashCode();
        int hash = 3;
        hash = hash + 31 * this.getConceptNameId();
        return hash;
    }

    public Integer getConceptNameId() {
        return conceptNameId;
    }

    public void setConceptNameId(Integer conceptNameId) {
        this.conceptNameId = conceptNameId;
    }

    public Concept getConcept() {
        return concept;
    }

    public void setConcept(Concept concept) {
        this.concept = concept;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public Locale getLocale() {
        return locale;
    }

    public void setLocale(Locale locale) {
        this.locale = locale;
    }

    public Collection<ConceptNameTag> getTags() {
        return tags;
    }

    public void setTags(Collection<ConceptNameTag> tags) {
        this.tags = tags;
    }
}

```

[\[edit\]](#)

Hibernate Mapping File

This mapping file works with the above concept.

Some attributes defined here (like uuid, creator, voided, etc) are defined on the parent class of ConceptName.

<generator />can also be the custom openmrs<generator />

```
<?xml version="1.0"?>
<!DOCTYPE hibernate-mapping PUBLIC
    "-//Hibernate/Hibernate Mapping DTD 3.1//EN"
    "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd" >

<hibernate-mapping package="org.openmrs">

    <class name="ConceptName" table="concept_name">

        <id name="conceptNameId" type="int" column="concept_name_id">
            <generator />
        </id>

        <many-to-one
            name="concept"
            column="concept_id"
            class="Concept"
            not-null="true"/>

        <property name="name" type="java.lang.String" length="65535" not-null="true" />
        <property name="locale" type="java.util.Locale" length="50" not-null="true"/>

        <property name="dateCreated" type="java.util.Date" column="date_created" not-null="true"/>
        <many-to-one name="creator" column="creator" not-null="true"/>

        <property name="voided" type="java.lang.Boolean" column="voided"
            length="1" not-null="true" />
        <property name="dateVoided" type="java.util.Date"
            column="date_voided" length="19" />
        <property name="voidReason" type="java.lang.String"
            column="void_reason" length="255" />
        <many-to-one name="voidedBy" column="voided_by" />

        <set name="tags" table="concept_name_tag_map" cascade="save-update">
            <key column="concept_name_id"/>
            <many-to-many column="concept_name_tag_id"/>
        </set>

        <property name="uuid" type="java.lang.String" column="uuid" length="38" unique="true" />
    </class>

</hibernate-mapping>
```