JWheel preferences persistence API

Through this API, it is possible to manage a preferences object using XML. By default, the file is persisted in the folder defined by “%APPDATA%” on Windows, or the user home directory in other OS, in a folder named jwheel/prefs or .jwheel/prefs. To do that, create a class abstracting some preferences. For example, take a look at this simple class:

import br.com.luvva.jwheel.cdi.Custom;

@Custom

private class UserPreference {

private String somePreference;

// getter and setter omitted

}

Note that the preference class should be annotated with the interface Custom, which means the opposite of the CDI interface Default. To persist this preference, a DAO must be created.

import br.com.luvva.jwheel.xml.dao.GenericXStreamDao;

private class UserPreferenceDao extends GenericXStreamDao<UserPreference> { }

Now all that is needed is a Factory, like this:

import br.com.luvva.jwheel.xml.service.PreferencesFactoryFromXml;

import javax.enterprise.inject.Produces;

import javax.inject.Inject;

import javax.inject.Singleton;

private class UserPreferenceFactory extends PreferencesFactoryFromXml<UserPreference> {

private @Inject UserPreferenceDao dao;

@Produces

public UserPreference produce () {

return produce(dao);

}

@Override

public void setDefaultPreferences (UserPreference preference) {

preference.setSomePreference(“Default value”);

}

}

Now, to load a preference from XML, this one line of code is enough:

private @Inject @Default UserPreference userPreference;

Or:

UserPreference userPreference = WeldContext.getInstance.getBean(UserPreference.class, new AnnotationLiteral<Default>(){});

This will read a preference object from XML or create one with default parameters. To persist a modified preference:

private @Inject UserPreferenceDao dao;

dao.merge(userPreference);