**Лабораторная работа №3**

**по курсу «Разработка ПО»**

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**Проверил: Иванов А.М.**

## Задание

Создать тестовый Eclipse-проект, в котором происходит формирование информационной модели данных диаграммы и работа с данными в соответствии со своим вариантом задания и требованиями.

Добавить созданные проект в репозитарий системы контроля версий.

## Цель лабораторной работы

* Углубление навыков работы с системой контроля версий
* Ознакомление на практике с основами графовых БД и технологий Semantic Web

## Картинка-задание

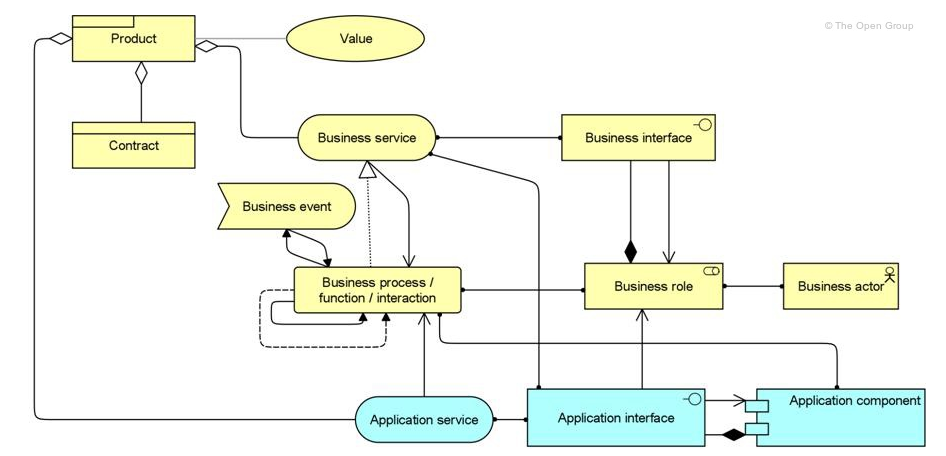


Рисунок 1. Задание

## Выполнение

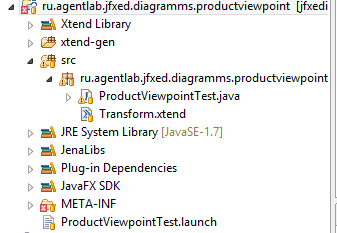


Рисунок 2. Структура папок

Файл ProductViewpoint.java

package ru.agentlab.jfxed.diagramms.productviewpoint;

import com.hp.hpl.jena.ontology.Individual;

import com.hp.hpl.jena.ontology.ObjectProperty;

import com.hp.hpl.jena.ontology.OntClass;

import com.hp.hpl.jena.ontology.OntModel;

import com.hp.hpl.jena.rdf.model.ModelFactory;

public class ProductViewpointTest {

static String SOURCE = "http://www.eswc2006.org/technologies/ontology";

static String NS = SOURCE + "#";

//test from sourcetree

public static void main (String[] args){

/\*

\* Здесь объявляем объекты квадратики схемы

\* \*/

OntModel m = ModelFactory.createOntologyModel();//создается пустая база знаний

ObjectProperty propTo = m.createObjectProperty(NS + "To");//объекты - свойства

ObjectProperty propFrom = m.createObjectProperty(NS + "From");

/\*\*

\* Вершины графа

\*/

OntClass productClass = m.createClass(NS + "Product");//создаем отдельные triple

OntClass contractClass = m.createClass(NS + "Contract");

OntClass businessServiceClass = m.createClass(NS + "Business Service");

OntClass valueClass = m.createClass(NS + "Value");

OntClass businessInterfaceClass = m.createClass(NS + "Business interface");

OntClass businessEventClass = m.createClass(NS + "Business event");

OntClass businessProcessClass = m.createClass(NS + "Business process");

OntClass businessRoleClass = m.createClass(NS + "Business role");

OntClass businessActorClass = m.createClass(NS + "Business actor");

OntClass applicationServiceClass = m.createClass(NS + "Application service");

OntClass applicationInterfaceClass = m.createClass(NS + "Application interface");

OntClass applicationComponentClass = m.createClass(NS + "Application component");

/\*

\* end

\* \*/

/\*

\* Объявление связей

\* \*/

//

OntClass associationClass = m.createClass(NS + "Association");//родительский суперкласс

//для того чтобы отличать фигурки от связей

//

OntClass aggregationClass = m.createClass(NS + "Agregation");//связь Aggregation

OntClass assigmentClass = m.createClass(NS + "Assigment");//связь assigment

OntClass usedByClass = m.createClass(NS + "Used by");//usedBy

OntClass compositionClass = m.createClass(NS + "Composition");//composition

OntClass triggeringClass = m.createClass(NS + "Triggering");//triggering

OntClass accessClass = m.createClass(NS + "Composition");//composition

OntClass realizationClass = m.createClass(NS + "CRealization");

//сюда повсему мы говорим что наши стрелочки это association

aggregationClass.addSuperClass(associationClass);//родительская связь

assigmentClass.addSuperClass(assigmentClass);//родительская связь

usedByClass.addSuperClass(associationClass);//родительская связь

compositionClass.addSuperClass(associationClass);//родительская связь

triggeringClass.addSuperClass(associationClass);//родительская связь

accessClass.addSuperClass(associationClass);//родительская связь

/\*

\* end

\* \*/

propTo.addDomain(aggregationClass);//свойства у aggregation

propFrom.addDomain(aggregationClass);

//связи в

propFrom.addRange(productClass);//продукт содержит конракт т.е. связь между ними инвертировать связи

propFrom.addRange(valueClass);

propFrom.addRange(businessServiceClass);

propFrom.addRange(businessInterfaceClass);

propFrom.addRange(businessEventClass);

propFrom.addRange(businessProcessClass);

propFrom.addRange(businessRoleClass);

propFrom.addRange(businessActorClass);

propFrom.addRange(applicationServiceClass);

propFrom.addRange(applicationInterfaceClass);

propFrom.addRange(applicationComponentClass);

//связи от

propTo.addRange(contractClass);//т.е. продукт содержит контракт

propTo.addRange(businessServiceClass);//и бизнесСервис

propTo.addRange(valueClass);

propTo.addRange(businessEventClass);

propTo.addRange(businessProcessClass);

propTo.addRange(businessInterfaceClass);

propTo.addRange(businessRoleClass);

propTo.addRange(businessActorClass);

propTo.addRange(applicationServiceClass);

propTo.addRange(applicationInterfaceClass);

propTo.addRange(applicationComponentClass);

//наполнение базы создание экзампляров

Individual productIndividual = m.createIndividual(NS + "product", productClass);

Individual contractIndividual = m.createIndividual(NS + "contract", contractClass);

Individual businessServiceIndividual = m.createIndividual(NS+ "businessService", businessServiceClass);

Individual valueIndividual = m.createIndividual(NS+ "value", valueClass);

Individual businessInterfaceIndividual = m.createIndividual(NS+ "businessInterface", businessInterfaceClass);

Individual businessEventIndividual = m.createIndividual(NS+ "businessEvent", businessEventClass);

Individual businessProcessIndividual = m.createIndividual(NS+ "businessProcess", businessProcessClass);

Individual businessRoleIndividual = m.createIndividual(NS+ "businessRole", businessRoleClass);

Individual businessActorIndividual = m.createIndividual(NS+ "businessActor", businessActorClass);

Individual applicationServiceIndividual = m.createIndividual(NS+ "applicationService", applicationServiceClass);

Individual applicationInterfaceIndividual = m.createIndividual(NS+ "applicationInterface", applicationInterfaceClass);

Individual applicationComponentIndividual = m.createIndividual(NS+ "applicationComponent", applicationComponentClass);

//связи

Individual aggToPFromCo\_BS\_ASIndividual = m.createIndividual(NS + "aggToProd\_FromCo\_BS\_AS", aggregationClass);

aggToPFromCo\_BS\_ASIndividual.addProperty(propFrom, productIndividual);

aggToPFromCo\_BS\_ASIndividual.addProperty(propTo, contractIndividual);//от продукта к контракту

aggToPFromCo\_BS\_ASIndividual.addProperty(propTo, businessServiceIndividual);//делаем связку

aggToPFromCo\_BS\_ASIndividual.addProperty(propTo, applicationServiceIndividual);

Individual assocValueProduct = m.createIndividual(NS + "assocValueProduct", associationClass);

assocValueProduct.addProperty(propFrom, valueIndividual);

assocValueProduct.addProperty(propTo, valueIndividual);

assocValueProduct.addProperty(propFrom, productIndividual);

assocValueProduct.addProperty(propTo, productIndividual);

Individual assigmBusActorBusRole = m.createIndividual(NS + "assigmentBusinessRole\_BusinessActor", assigmentClass);

assigmBusActorBusRole.addProperty(propTo, businessRoleIndividual);

assigmBusActorBusRole.addProperty(propTo, businessActorIndividual);

assigmBusActorBusRole.addProperty(propFrom, businessRoleIndividual);

assigmBusActorBusRole.addProperty(propFrom, businessActorIndividual);

Individual assigmBusRoleBusProc = m.createIndividual(NS + "assigmBusRoleBusProc", assigmentClass);

assigmBusRoleBusProc.addProperty(propTo, businessRoleIndividual);

assigmBusRoleBusProc.addProperty(propTo, businessProcessIndividual);

assigmBusRoleBusProc.addProperty(propFrom, businessRoleIndividual);

assigmBusRoleBusProc.addProperty(propFrom, businessProcessIndividual);

Individual assigBusServBusInt = m.createIndividual(NS + "assigBusServBusInt", assigmentClass);

assigBusServBusInt.addProperty(propTo, businessServiceIndividual);

assigBusServBusInt.addProperty(propTo, businessInterfaceIndividual);

assigBusServBusInt.addProperty(propFrom, businessServiceIndividual);

assigBusServBusInt.addProperty(propFrom, businessInterfaceIndividual);

Individual assigBusServAppInt = m.createIndividual(NS + "assigBusServAppInt", assigmentClass);

assigBusServAppInt.addProperty(propTo, businessServiceIndividual);

assigBusServAppInt.addProperty(propTo, applicationInterfaceIndividual);

assigBusServAppInt.addProperty(propFrom, businessServiceIndividual);

assigBusServAppInt.addProperty(propFrom, applicationInterfaceIndividual);

Individual realizBusServBusProc = m.createIndividual(NS + "realizBusServAppInt", realizationClass);

realizBusServBusProc.addProperty(propFrom, businessServiceIndividual);

realizBusServBusProc.addProperty(propTo, businessProcessIndividual);

Individual usedbyBusProcBusServ = m.createIndividual(NS + "usedbyBusProcBusServt", usedByClass);

usedbyBusProcBusServ.addProperty(propTo, businessServiceIndividual);

usedbyBusProcBusServ.addProperty(propFrom, businessProcessIndividual);

Individual realizBusRoleBusInt = m.createIndividual(NS + "realizBusRoleBusInt", realizationClass);

realizBusRoleBusInt.addProperty(propFrom, businessRoleIndividual);

realizBusRoleBusInt.addProperty(propTo, businessInterfaceIndividual);

Individual composBusRoleBusInt = m.createIndividual(NS + "composBusRoleBusInt", compositionClass);

composBusRoleBusInt.addProperty(propFrom, businessRoleIndividual);

composBusRoleBusInt.addProperty(propTo, businessInterfaceIndividual);

Individual realizAppCompAppInt = m.createIndividual(NS + "realizAppCompAppInt", realizationClass);

realizAppCompAppInt.addProperty(propFrom, applicationComponentIndividual);

realizAppCompAppInt.addProperty(propTo, applicationInterfaceIndividual);

Individual composAppCompAppInt = m.createIndividual(NS + "composAppCompAppInt", compositionClass);

composAppCompAppInt.addProperty(propFrom, applicationComponentIndividual);

composAppCompAppInt.addProperty(propTo, applicationInterfaceIndividual);

Individual assigAppServAppInt = m.createIndividual(NS + "assigAppServAppInt", assigmentClass);

assigAppServAppInt.addProperty(propFrom, applicationServiceIndividual);

assigAppServAppInt.addProperty(propTo, applicationInterfaceIndividual);

assigAppServAppInt.addProperty(propFrom, applicationInterfaceIndividual);

assigAppServAppInt.addProperty(propTo, applicationServiceIndividual);

Individual assigAppCompBusProc = m.createIndividual(NS + "assigAppCompBusProc", assigmentClass);

assigAppCompBusProc.addProperty(propFrom, businessProcessIndividual);

assigAppCompBusProc.addProperty(propTo, applicationComponentIndividual);

assigAppCompBusProc.addProperty(propTo, businessProcessIndividual);

assigAppCompBusProc.addProperty(propFrom, applicationComponentIndividual);

Individual usedbyAppIntBusRole = m.createIndividual(NS + "usedbyAppIntBusRole", usedByClass);

usedbyAppIntBusRole.addProperty(propFrom, businessRoleIndividual);

usedbyAppIntBusRole.addProperty(propTo, applicationInterfaceIndividual);

Individual usedbyAppServBusProc = m.createIndividual(NS + "usedbyAppIntBusRole", usedByClass);

usedbyAppServBusProc.addProperty(propFrom, businessProcessIndividual);

usedbyAppServBusProc.addProperty(propTo, applicationServiceIndividual);

Individual trigBusProc = m.createIndividual(NS + "trigBusProc", triggeringClass);

trigBusProc.addProperty(propFrom, businessProcessIndividual);

trigBusProc.addProperty(propTo, businessProcessIndividual);

Individual accessBusProc = m.createIndividual(NS + "accessBusProc", accessClass);

accessBusProc.addProperty(propFrom, businessProcessIndividual);

accessBusProc.addProperty(propTo, businessProcessIndividual);

Individual trigBusProcBusEvent = m.createIndividual(NS + "trigBusProcBusEvent", triggeringClass);

trigBusProcBusEvent.addProperty(propFrom, businessEventIndividual);

trigBusProcBusEvent.addProperty(propTo, businessProcessIndividual);

Individual trigBusEventBusProc = m.createIndividual(NS + "trigBusEventBusProc", triggeringClass);

trigBusProcBusEvent.addProperty(propTo, businessEventIndividual);

trigBusProcBusEvent.addProperty(propFrom, businessProcessIndividual);

m.write(System.out, "N3");//и в консоль

}

}

Вывод программы:

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@prefix owl: <http://www.w3.org/2002/07/owl#> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

<http://www.eswc2006.org/technologies/ontology#assigAppServAppInt>

a <http://www.eswc2006.org/technologies/ontology#Assigment> ;

<http://www.eswc2006.org/technologies/ontology#From>

<http://www.eswc2006.org/technologies/ontology#applicationInterface> , <http://www.eswc2006.org/technologies/ontology#applicationService> ;

<http://www.eswc2006.org/technologies/ontology#To>

<http://www.eswc2006.org/technologies/ontology#applicationService> , <http://www.eswc2006.org/technologies/ontology#applicationInterface> .

<http://www.eswc2006.org/technologies/ontology#Business event>

a owl:Class .

<http://www.eswc2006.org/technologies/ontology#Application service>

a owl:Class .

<http://www.eswc2006.org/technologies/ontology#applicationService>

a <http://www.eswc2006.org/technologies/ontology#Application service> .

<http://www.eswc2006.org/technologies/ontology#Agregation>

a owl:Class ;

rdfs:subClassOf <http://www.eswc2006.org/technologies/ontology#Association> .

<http://www.eswc2006.org/technologies/ontology#Business Service>

a owl:Class .

<http://www.eswc2006.org/technologies/ontology#assocValueProduct>

a <http://www.eswc2006.org/technologies/ontology#Association> ;

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<http://www.eswc2006.org/technologies/ontology#To>

<http://www.eswc2006.org/technologies/ontology#product> , <http://www.eswc2006.org/technologies/ontology#value> .

<http://www.eswc2006.org/technologies/ontology#realizAppCompAppInt>

a <http://www.eswc2006.org/technologies/ontology#CRealization> ;

<http://www.eswc2006.org/technologies/ontology#From>

<http://www.eswc2006.org/technologies/ontology#applicationComponent> ;

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<http://www.eswc2006.org/technologies/ontology#Value>

a owl:Class .

<http://www.eswc2006.org/technologies/ontology#Product>

a owl:Class .

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a <http://www.eswc2006.org/technologies/ontology#Triggering> ;

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<http://www.eswc2006.org/technologies/ontology#To>

<http://www.eswc2006.org/technologies/ontology#businessEvent> , <http://www.eswc2006.org/technologies/ontology#businessProcess> .

<http://www.eswc2006.org/technologies/ontology#value>

a <http://www.eswc2006.org/technologies/ontology#Value> .

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a <http://www.eswc2006.org/technologies/ontology#Assigment> ;

<http://www.eswc2006.org/technologies/ontology#From>

<http://www.eswc2006.org/technologies/ontology#businessInterface> , <http://www.eswc2006.org/technologies/ontology#businessService> ;

<http://www.eswc2006.org/technologies/ontology#To>

<http://www.eswc2006.org/technologies/ontology#businessInterface> , <http://www.eswc2006.org/technologies/ontology#businessService> .

<http://www.eswc2006.org/technologies/ontology#businessRole>

a <http://www.eswc2006.org/technologies/ontology#Business role> .

<http://www.eswc2006.org/technologies/ontology#Assigment>

a owl:Class ;

rdfs:subClassOf <http://www.eswc2006.org/technologies/ontology#Assigment> .

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a <http://www.eswc2006.org/technologies/ontology#Business event> .

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a owl:ObjectProperty ;

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<http://www.eswc2006.org/technologies/ontology#Business actor>

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<http://www.eswc2006.org/technologies/ontology#applicationComponent> , <http://www.eswc2006.org/technologies/ontology#businessProcess> ;

<http://www.eswc2006.org/technologies/ontology#To>

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<http://www.eswc2006.org/technologies/ontology#trigBusEventBusProc>

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<http://www.eswc2006.org/technologies/ontology#aggToProd\_FromCo\_BS\_AS>

a <http://www.eswc2006.org/technologies/ontology#Agregation> ;

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<http://www.eswc2006.org/technologies/ontology#product> ;

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