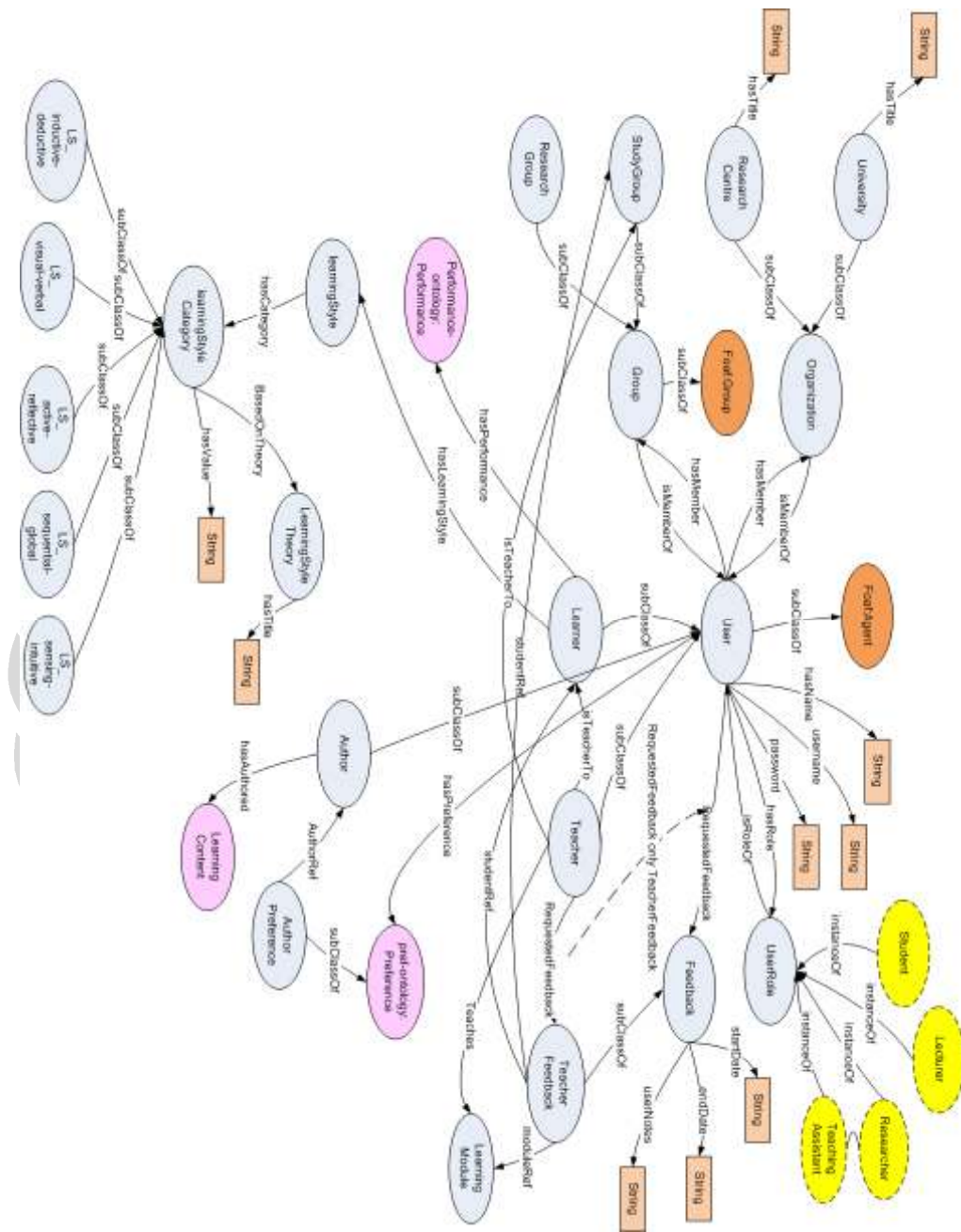


REPRESENTASI GRAFIKAL ONTOLOGI USER-MODEL



SOURCE CODE ONTOLOGI USER-MODEL (user-model.owl)

```

<?xml version="1.0"?>
<rdf:RDF
  xmlns:protege="http://protege.stanford.edu/plugins/owl/protege#"
  xmlns:xsp="http://www.owl-ontologies.com/2005/08/07/xsp.owl#"
  xmlns:user-model="http://localhost:8080/TA-usermodel/user-model.owl#"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:swrlb="http://www.w3.org/2003/11/swrlb#"
  xmlns:lip-prefs="http://localhost:8080/TA-usermodel/ims-lip-elements.owl#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:comp="http://localhost:8080/TA-usermodel/competencies.owl#"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns="http://www.owl-ontologies.com/user-model.owl#"
  xmlns:papi="http://tugas-akhir/user-model/papi-elements.owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:swrl="http://www.w3.org/2003/11/swrl#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xml:base="http://www.owl-ontologies.com/Ontology1244174967.owl">
  <owl:Ontology rdf:about="">
    <dc:description rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Designing User-Model Ontology for Semantic Web Based Personalized E-Learning Development</dc:description>
    <dc:title rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >user-model ontology</dc:title>
    <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >user-model ontology design based on TANGRAM user-model ontology by Jelena Jovanovic and
    friend</rdfs:comment>
    <dc:date rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >2009-7-15</dc:date>
    <dc:contributor rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Jelena Jovanovic</dc:contributor>
    <dc:creator rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Octo Alexandro</dc:creator>
  </owl:Ontology>
  <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#University">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >University</rdfs:label>
    <owl:disjointWith>
      <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Research_Centre"/>
    </owl:disjointWith>
    <rdfs:subClassOf>
      <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Organization"/>
    </rdfs:subClassOf>
  </owl:Class>

```

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```
<owl:Class rdf:about="http://xmlns.com/foaf/0.1/Agent"/>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Active-Reflectice">
  <rdfs:subClassOf>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
  </rdfs:subClassOf>
<owl:disjointWith>
  <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sensing-Intuitive"/>
</owl:disjointWith>
<owl:disjointWith>
  <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sequential-Global"/>
</owl:disjointWith>
<owl:disjointWith>
  <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Inductive-Deductive"/>
</owl:disjointWith>
<owl:disjointWith>
  <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Visual-Verbal"/>
</owl:disjointWith>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Teacher">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Teacher</rdfs:label>
  <owl:disjointWith>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Learner"/>
  </owl:disjointWith>
  <rdfs:subClassOf>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:allValuesFrom>
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#TeacherFeedback"/>
      </owl:allValuesFrom>
    </owl:Restriction>
  <owl:onProperty>
    <owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#RequestedFeedback"/>
  </owl:onProperty>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Group">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Group</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >A group of people gathered around an educational goal.
  Defined as a sub-class of the foaf:Group</rdfs:comment>
  <rdfs:subClassOf>
    <owl:Class rdf:about="http://xmlns.com/foaf/0.1/Group"/>
  </rdfs:subClassOf>
</owl:Class>
```

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LAMPIRAN B (lanjutan)

```
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Author">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Author</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Author of learning content</rdfs:comment>
  <rdfs:subClassOf>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:about="lo-ontology:LearningObject"/>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#User">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >a person using e-learning system</rdfs:label>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >user</rdfs:label>
  <rdfs:subClassOf rdf:resource="http://xmlns.com/foaf/0.1/Agent"/>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Feedback">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Feedback</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >This class represents any kind of feedback that might be relevant for any participant in the learning
  process.</rdfs:comment>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleTheory"/>
<owl:Class rdf:about="performance-ontology:Performance">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Performance</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >A student's performance on an assessment instrument.</rdfs:comment>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sequential-Global">
  <owl:disjointWith>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sensing-Intuitive"/>
  </owl:disjointWith>
  <owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Active-Reflective"/>
  <owl:disjointWith>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Inductive-Deductive"/>
  </owl:disjointWith>
  <owl:disjointWith>
    <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Visual-Verbal"/>
  </owl:disjointWith>
  <rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#UserRole"/>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Visual-Verbal">
  <rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
  <owl:disjointWith>
```

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```
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sensing-Intuitive"/>
</owl:disjointWith>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Active-Reflective"/>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sequential-Global"/>
<owl:disjointWith>
  <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Inductive-Deductive"/>
</owl:disjointWith>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#AuthorPreference">
  <rdfs:subClassOf>
    <owl:Class rdf:about="pref-ontology:Preference"/>
  </rdfs:subClassOf>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >A usersâ€™ preferences regarding authors of learning content</rdfs:comment>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >AuthorPreference</rdfs:label>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyle">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Learning Style</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Formal representation of a student's learning style.</rdfs:comment>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningModule">
  <rdfs:subClassOf rdf:resource="lo-ontology:LearningObject"/>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Learning Module</rdfs:comment>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#TeacherFeedback">
  <rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Feedback"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Teacher Feedback</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Teacher-targeted feedback</rdfs:comment>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Learner">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >Learner</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    >a person using elearning system to learn</rdfs:comment>
  <rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
  <owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Teacher"/>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sensing-Intuitive">
  <rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
  <owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Active-Reflective"/>
  <owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sequential-Global"/>
  <owl:disjointWith>
```

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```
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Inductive-Deductive"/>
</owl:disjointWith>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Visual-Verbal"/>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LS_Inductive-Deductive">
<rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sensing-Intuitive"/>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Active-Reflective"/>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Sequential-Global"/>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LS_Visual-Verbal"/>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#ResearchGroup">
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Research Group</rdfs:comment>
<rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Group"/>
<owl:disjointWith>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#StudyGroup"/>
</owl:disjointWith>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#StudyGroup">
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#ResearchGroup"/>
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Study Group</rdfs:comment>
<rdfs:subClassOf>
<owl:Restriction>
<owl:allValuesFrom rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Learner"/>
<owl:onProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasMember"/>
</owl:onProperty>
</owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Group"/>
</owl:Class>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Research_Centre">
<rdfs:subClassOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Organization"/>
<owl:disjointWith rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#University"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Research Centre</rdfs:label>
</owl:Class>
<owl:Class rdf:about="pref-ontology:Preference">
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Preference</rdfs:label>
</owl:Class>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasCategory">
<rdfs:subPropertyOf>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</rdfs:subPropertyOf>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyle"/>
```

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```
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasCategory</rdfs:label>
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#moduleRef">
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#TeacherFeedback"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >moduleRef</rdfs:label>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Reference to the learning module the (teacher-directed) feedback is about.</rdfs:comment>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
  <rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningModule"/>
  <rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#RequestedFeedback">
  <rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Feedback"/>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >This property links an user with a specific feedback the user asked for.</rdfs:comment>
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
  <rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >RequestedFeedback</rdfs:label>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasPreference">
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >The property models the relationship between a learner and his/her learning-related preferences</rdfs:comment>
  <rdfs:range rdf:resource="pref-ontology:Preference"/>
  <rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#studentRef">
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Reference to the student or studyGroup the feedback is about</rdfs:comment>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >studenRef</rdfs:label>
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#TeacherFeedback"/>
  <rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
  <rdfs:range>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Learner"/>
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#StudyGroup"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:range>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Teaches">
```

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```
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Teacher"/>
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningModule"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#isTeacherTo">
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Teacher"/>
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
<rdfs:range>
<owl:Class>
<owl:unionOf rdf:parseType="Collection">
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Learner"/>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#StudyGroup"/>
</owl:unionOf>
</owl:Class>
</rdfs:range>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://xmlns.com/foaf/0.1/Member">
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasAuthored">
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>The property relates an author with the learning content he/she has developed</rdfs:comment>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Author"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasAuthored</rdfs:label>
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#BasedOnTheory">
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>BasedOnTheory</rdfs:label>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleTheory"/>
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://xmlns.com/foaf/0.1/name">
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasPerformance">
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasPerformance</rdfs:label>
<rdfs:range rdf:resource="performance-ontology:Performance"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Learner"/>
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#is_role_of">
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
<owl:inverseOf>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasRole"/>
```

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```
</owl:inverseOf>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#UserRole"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>is role of</rdfs:label>
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasRole">
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasRole</rdfs:label>
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
<owl:inverseOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#is_role_of"/>
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#UserRole"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>role of the user</rdfs:comment>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#authorRef">
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Author"/>
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Reference to the author this preference is about</rdfs:comment>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#AuthorPreference"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>authorRef</rdfs:label>
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasMember">
<rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
<owl:inverseOf>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#isMemberOf"/>
</owl:inverseOf>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasMember</rdfs:label>
<rdfs:domain>
<owl:Class>
<owl:unionOf rdf:parseType="Collection">
<owl:Class rdf:about="http://xmlns.com/foaf/0.1/Group"/>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Organization"/>
</owl:unionOf>
</owl:Class>
</rdfs:domain>
<rdfs:subPropertyOf rdf:resource="http://xmlns.com/foaf/0.1/Member"/>
</owl:ObjectProperty>
<owl:ObjectProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#isMemberOf">
<rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
<rdfs:range>
<owl:Class>
<owl:unionOf rdf:parseType="Collection">
```

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<owl:Class rdf:about="http://xmlns.com/foaf/0.1/Group"/>
<owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Organization"/>
</owl:unionOf>
</owl:Class>
</rdfs:range>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>isMemberOf</rdfs:label>
<owl:inverseOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#hasMember"/>
</owl:ObjectProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#startDate">
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Feedback"/>
<rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>startDate</rdfs:label>
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Together with the endDate property defines the time range for which the feedback was
requested/made.</rdfs:comment>
<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#endDate">
<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
<rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Feedback"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>endDate</rdfs:label>
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Together with the startDate property defines the time range for which the feedback was
requested/made.</rdfs:comment>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#password">
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>password</rdfs:label>
<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
<rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasName">
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasName</rdfs:label>
<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
<rdfs:subPropertyOf rdf:resource="http://xmlns.com/foaf/0.1/name"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
<rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasValue">
<rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>hasValue</rdfs:label>
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```
<rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>value of learning category</rdfs:comment>
<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#float"/>
<rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#username">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >username</rdfs:label>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#FunctionalProperty"/>
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#User"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#userNotes">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >This property links an instance of Feedback with the notes that the user has made while/after reviewing the
  feedback</rdfs:comment>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >label</rdfs:label>
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Feedback"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#learner_type">
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:FunctionalProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasLearningStyle">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >hasLearningStyle</rdfs:label>
  <rdfs:range rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyle"/>
  <rdfs:subPropertyOf rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#link"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
  <rdfs:domain rdf:resource="http://localhost:8080/TA-usermodel/user-model.owl#Learner"/>
</owl:FunctionalProperty>
<owl:FunctionalProperty rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#hasTitle">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:subPropertyOf>
    <owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/title"/>
  </rdfs:subPropertyOf>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >hasTitle</rdfs:label>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#DatatypeProperty"/>
  <rdfs:domain>
    <owl:Class>
      <owl:unionOf rdf:parseType="Collection">
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningModule"/>
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleCategory"/>
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#LearningStyleTheory"/>
        <owl:Class rdf:about="http://localhost:8080/TA-usermodel/user-model.owl#Organization"/>
      </owl:unionOf>
    </owl:Class>
  </rdfs:domain>
</owl:FunctionalProperty>
```

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```
</owl:unionOf>
</owl:Class>
</rdfs:domain>
</owl:FunctionalProperty>
<owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/date"/>
<user-model:Learner rdf:about="http://www.owl-ontologies.com/user-model.owl#Learner_4"/>
<owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/description"/>
<owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/creator"/>
<user-model:Learner rdf:about="http://www.owl-ontologies.com/user-model.owl#Learner_3"/>
<user-model:Teacher rdf:about="http://www.owl-ontologies.com/user-model.owl#Teacher_1">
<user-model:RequestedFeedback>
  <user-model:TeacherFeedback rdf:about="http://www.owl-ontologies.com/user-model.owl#TeacherFeedback_6">
    <user-model:moduleRef>
      <user-model:LearningModule rdf:about="http://www.owl-ontologies.com/user-model.owl#LearningModule_7"/>
    </user-model:moduleRef>
  </user-model:TeacherFeedback>
</user-model:RequestedFeedback>
</user-model:Teacher>
<user-model:TeacherFeedback rdf:about="http://www.owl-ontologies.com/user-model.owl#TeacherFeedback_5"/>
<owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/contributor"/>
<user-model:LearningModule rdf:about="http://www.owl-ontologies.com/user-model.owl#LearningModule_2"/>
</rdf:RDF>

<!-- Created with Protege (with OWL Plugin 3.4, Build 529) http://protege.stanford.edu -->
```