

```
<?xml version="1.0"?>
```

```
<!DOCTYPE rdf:RDF [
  <!ENTITY owl "http://www.w3.org/2002/07/owl#" >
  <!ENTITY swrl "http://www.w3.org/2003/11/swrl#" >
  <!ENTITY swrlb "http://www.w3.org/2003/11/swrlb#" >
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
  <!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#" >
  <!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#" >
  <!ENTITY untitled-ontology-23 "
    http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#" >
]>
```

```
<rdf:RDF xmlns="http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#"
  xml:base="http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:swrl="http://www.w3.org/2003/11/swrl#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:swrlb="http://www.w3.org/2003/11/swrlb#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:untitled-ontology-23="
    http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#">
  <owl:Ontology rdf:about="
    http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23"/>
```

```
<!--
////////////////////////////////////
//
// Object Properties
//
////////////////////////////////////
-->
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#manages -->
```

```
<owl:ObjectProperty rdf:about="&untitled-ontology-23;manages"/>
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#supervises -->
```

```
<owl:ObjectProperty rdf:about="&untitled-ontology-23;supervises">
  <rdfs:domain rdf:resource="&untitled-ontology-23;Manager"/>
</owl:ObjectProperty>
```

```
<!--
////////////////////////////////////
```

```
//
// Data properties
//
////////////////////////////////////
-->

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#projectID -->

<owl:DatatypeProperty rdf:about="&untitled-ontology-23;projectID">
  <rdfs:domain rdf:resource="&untitled-ontology-23;Project"/>
</owl:DatatypeProperty>

<!--
////////////////////////////////////
//
// Classes
//
////////////////////////////////////
-->

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#Employee -->

<owl:Class rdf:about="&untitled-ontology-23;Employee"/>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#Manager -->

<owl:Class rdf:about="&untitled-ontology-23;Manager">
  <rdfs:subClassOf rdf:resource="&untitled-ontology-23;Employee"/>
</owl:Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#Project -->

<owl:Class rdf:about="&untitled-ontology-23;Project"/>

<!--
http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#ProjectManager -->

<owl:Class rdf:about="&untitled-ontology-23;ProjectManager">
  <rdfs:subClassOf rdf:resource="&untitled-ontology-23;Manager"/>
</owl:Class>
```

```

<!--
http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#ResearchProject -->

<owl:Class rdf:about="&untitled-ontology-23;ResearchProject">
  <rdfs:subClassOf rdf:resource="&untitled-ontology-23;Project"/>
</owl:Class>

<!--
////////////////////////////////////
//
// Individuals
//
////////////////////////////////////
-->

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#Alice -->

<owl:Thing rdf:about="&untitled-ontology-23;Alice">
  <rdf:type rdf:resource="&owl;NamedIndividual"/>
  <manages rdf:resource="&untitled-ontology-23;ProjektX"/>
</owl:Thing>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#Bob -->

<owl:Thing rdf:about="&untitled-ontology-23;Bob">
  <rdf:type rdf:resource="&owl;NamedIndividual"/>
</owl:Thing>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/untitled-ontology-23#ProjektX -->

<owl:NamedIndividual rdf:about="&untitled-ontology-23;ProjektX">
  <rdf:type rdf:resource="&untitled-ontology-23;ResearchProject"/>
  <projectID>123-45-6789</projectID>
</owl:NamedIndividual>

<!--
////////////////////////////////////
//
// Rules
//
////////////////////////////////////
-->

<rdf:Description rdf:about="urn:swrl#x">
  <rdf:type rdf:resource="&swrl;Variable"/>
</rdf:Description>

```

```

<rdf:Description>
  <rdf:type rdf:resource="&swrl;Imp"/>
  <swrl:body>
    <rdf:Description>
      <rdf:type rdf:resource="&swrl;AtomList"/>
      <rdf:first>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;ClassAtom"/>
          <swrl:classPredicate rdf:resource="&owl;Thing"/>
          <swrl:argument1 rdf:resource="urn:swrl#x"/>
        </rdf:Description>
      </rdf:first>
      <rdf:rest>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;AtomList"/>
          <rdf:rest rdf:resource="&rdf:nil"/>
          <rdf:first>
            <rdf:Description>
              <rdf:type rdf:resource="&swrl;ClassAtom"/>
              <swrl:argument1 rdf:resource="urn:swrl#x"/>
              <swrl:classPredicate>
                <owl:Restriction>
                  <owl:onProperty
                    rdf:resource="&untitled-ontology-23;manages"/>
                  <owl:onClass
                    rdf:resource="&untitled-ontology-23;Project"/>
                  <owl:minQualifiedCardinality
                    rdf:datatype="&xsd;nonNegativeInteger">1</owl:minQualifiedCardinality>
                </owl:Restriction>
              </swrl:classPredicate>
            </rdf:Description>
          </rdf:first>
        </rdf:Description>
      </rdf:rest>
    </rdf:Description>
  </swrl:body>
  <swrl:head>
    <rdf:Description>
      <rdf:type rdf:resource="&swrl;AtomList"/>
      <rdf:rest rdf:resource="&rdf:nil"/>
      <rdf:first>
        <rdf:Description>
          <rdf:type rdf:resource="&swrl;ClassAtom"/>
          <swrl:classPredicate
            rdf:resource="&untitled-ontology-23;ProjectManager"/>
          <swrl:argument1 rdf:resource="urn:swrl#x"/>
        </rdf:Description>
      </rdf:first>
    </rdf:Description>
  </swrl:head>
</rdf:Description>
</rdf:RDF>

```

