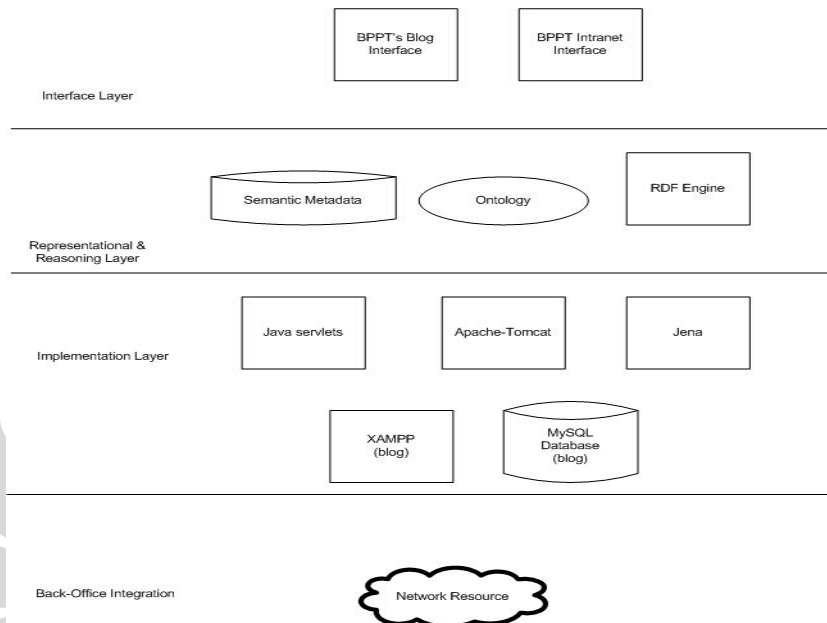


LAMPIRAN A Arsitektur BPPT Intranet



Lampiran A.1 Arsitektur BPPT Intranet

Interface layer merupakan tampilan *knowledge management system* milik BPPT, yang terdiri dari *blog* dan *BPPT Intranet interface*. Terlihat pada diagram di atas, BPPT Intranet memiliki *representational & reasoning layer* yang berisikan ontologi untuk menyimpan *class* dan *link types* serta *rules*, *semantic metadata* sebagai *repositories* untuk menyimpan *link*, *atributes value*, dan *instance* atau *item*. *RDF engine* berfungsi untuk menjalankan *rules* yang telah dibuat. Pada *implementation layer*, *Java servlets* digunakan untuk navigasi antara *interlink item* yang dibuat dengan *repository* untuk melihat *files*, memasukkan *metadata*, *search item* tertentu. Sistem BPPT Intranet termasuk komponen *inference* dibuat di atas *framework* Jena dan sistem ini dapat berjalan pada Apache-Tomcat. Sedangkan XAMPP digunakan untuk menjalankan BPPT's *blog* dengan MySQL sebagai tempat menyimpan *database blog*. Terakhir, *back-office integration* yang terdiri dari *network resource* agar sistem tersebut dapat diakses.

LAMPIRAN B Code Ontologi BPPT

Berikut ini merupakan *code* ontologi dengan menggunakan sintaks RDF/XML.

```
<?xml version="1.0"?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:bppt="http://www.owl-ontologies.com/Ontology1240287328.owl#"
  xmlns:protege="http://protege.stanford.edu/plugins/owl/protege#"
  xmlns:xsp="http://www.owl-ontologies.com/2005/08/07/xsp.owl#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:swrl="http://www.w3.org/2003/11/swrl#"
  xmlns:swrlb="http://www.w3.org/2003/11/swrlb#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xml:base="http://www.owl-ontologies.com/Ontology1240287328.owl">
  <owl:Ontology rdf:about=""/>
  <owl:Class
rdf:ID="Bidang_Teknologi_Produksi_Tanaman_Pangan_Holtikultura">
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Pusat_Teknologi_Produksi_Pertanian"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Pusat_Teknologi_Industri_Manufaktur">
    <rdfs:subClassOf>
      <owl:Class
rdf:ID="DEPUTI_BIDANG_TEKNOLOGI_INDUSTRI_RANCANG_BANGUN_dan_REKAYASA"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Daya_Saing_Masyarakat">
    <rdfs:subClassOf>
      <owl:Class
rdf:ID="Pusat_Pengkajian_Kebijakan_Peningkatan_daya_saing"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="DEPUTI_BIDANG_TEKNOLOGI_PENGEMBANGAN_SUMBERDAYA_ALAM">
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Organization"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="BPPT_Project">
    <rdfs:subClassOf>
      <owl:Class rdf:ID="Project"/>
    </rdfs:subClassOf>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
      >BPPT Project</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Pusat_Audit_Teknologi">
    <rdfs:subClassOf>
      <owl:Class rdf:ID="DEPUTI_BIDANG_PENGAJIAN_KEBIJAKAN_TEKNOLOGI"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Pusat_Teknologi_Sumber_Daya_Mineral">
    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_PENGEMBANGAN_SUMBERDAYA_ALAM"/>
```

```

</owl:Class>
<owl:Class rdf:ID="Pusat_Teknologi_Informasi_dan_Komunikasi">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Pusat Teknologi Informasi dan Komunikasi</rdfs:label>
  <rdfs:subClassOf>
    <owl:Class
rdf:ID="DEPUTI_BIDANG_TEKNOLOGI_ENERGI_MATERIAL_dan_LINGKUNGAN"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Akuntansi_Sumber_Daya_Alam">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Teknologi_Inventarisasi_Sumber_Daya_Alam"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Industri_Serat">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Teknologi_Industri_Proses"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Sistem_Manajemen_Proses">
  <rdfs:subClassOf rdf:resource="#Pusat_Audit_Teknologi"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Produksi_Perikanan_dan_Peternakan">
  <rdfs:subClassOf>
    <owl:Class rdf:about="#Pusat_Teknologi_Produksi_Pertanian"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Report">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Internal"/>
  </rdfs:subClassOf>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Report</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="Book">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Book</rdfs:label>
  <rdfs:subClassOf>
    <owl:Class rdf:ID="External"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Person">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Person</rdfs:label>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty>
        <owl:ObjectProperty rdf:ID="WorksOn"/>
      </owl:onProperty>
      <owl:allValuesFrom>
        <owl:Class rdf:about="#Organization"/>
      </owl:allValuesFrom>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty>
        <owl:ObjectProperty rdf:ID="IsDoing"/>
      </owl:onProperty>
      <owl:someValuesFrom>

```

```

        <owl:Class rdf:about="#Project"/>
        </owl:someValuesFrom>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
    <owl:Restriction>
        <owl:onProperty>
            <owl:ObjectProperty rdf:ID="AuthorOf"/>
        </owl:onProperty>
        <owl:someValuesFrom>
            <owl:Class rdf:ID="Product"/>
        </owl:someValuesFrom>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
    <owl:Restriction>
        <owl:someValuesFrom>
            <owl:Class rdf:about="#Project"/>
        </owl:someValuesFrom>
        <owl:onProperty>
            <owl:ObjectProperty rdf:ID="HeadOf"/>
        </owl:onProperty>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf>
    <owl:Restriction>
        <owl:onProperty>
            <owl:ObjectProperty rdf:ID="Has"/>
        </owl:onProperty>
        <owl:someValuesFrom>
            <owl:Class rdf:ID="Competency"/>
        </owl:someValuesFrom>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
<rdfs:subClassOf>
    <owl:Restriction>
        <owl:onProperty>
            <owl:ObjectProperty rdf:ID="Participate"/>
        </owl:onProperty>
        <owl:someValuesFrom>
            <owl:Class rdf:ID="Participation"/>
        </owl:someValuesFrom>
    </owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Pusat_Teknologi_Farmasi_dan_Medika">
    <rdfs:subClassOf>
        <owl:Class
rdf:ID="DEPUTI_BIDANG_TEKNOLOGI_AGROINDUSTRI_dan_BIOTEKNOLOGI"/>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_ENERGI_MATERIAL_dan_LINGKUNGAN">
    <rdfs:subClassOf>
        <owl:Class rdf:about="#Organization"/>
    </rdfs:subClassOf>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>DEPUTI BIDANG TEKNOLOGI ENERGI MATERIAL DAN LINGKUNGAN</rdfs:label>
</owl:Class>

```

```

    <owl:Class rdf:about="#Pusat_Teknologi_Industri_Proses">
      <rdfs:subClassOf>
        <owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_INDUSTRI_RANCANG_BANGUN_dan_REKAYASA"/>
          </rdfs:subClassOf>
        </owl:Class>
      <owl:Class rdf:ID="Pusat_Teknologi_Agroindustri">
        <rdfs:subClassOf>
          <owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_AGROINDUSTRI_dan_BIOTEKNOLOGI"/>
            </rdfs:subClassOf>
          </owl:Class>
        <owl:Class rdf:ID="Bidang_Teknologi_Industri_Peralatan_Pabrik">
          <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Industri_Manufaktur"/>
        </owl:Class>
      <owl:Class
rdf:ID="Bidang_Teknologi_Agroindustri_Perkebunan_dan_Perhutanan">
        <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Agroindustri"/>
      </owl:Class>
      <owl:Class rdf:ID="Bidang_Monitoring_dan_Evaluasi">
        <rdfs:subClassOf rdf:resource="#Pusat_Audit_Teknologi"/>
      </owl:Class>
      <owl:Class rdf:ID="Bidang_Teknologi_Prasarana_Transportasi">
        <rdfs:subClassOf>
          <owl:Class rdf:ID="Pusat_Teknologi_Industri_dan_Sistem_Transpotasi"/>
        </rdfs:subClassOf>
      </owl:Class>
      <owl:Class rdf:ID="Bidang_Sistem_Komunikasi_Multimedia">
        <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Informasi_dan_Komunikasi"/>
          <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Bidang Sistem Komunikasi Multimedia</rdfs:label>
        </owl:Class>
      <owl:Class rdf:ID="Preliminary_Report">
        <rdfs:subClassOf rdf:resource="#Report"/>
        <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Preliminary Report</rdfs:label>
      </owl:Class>
      <owl:Class rdf:ID="Bidang_Pelaksanaan_Audit_Teknologi">
        <rdfs:subClassOf rdf:resource="#Pusat_Audit_Teknologi"/>
      </owl:Class>
      <owl:Class rdf:ID="Bidang_Daya_Saing_Daerah">
        <rdfs:subClassOf>
          <owl:Class
rdf:about="#Pusat_Pengkajian_Kebijakan_Peningkatan_daya_saing"/>
            </rdfs:subClassOf>
          </owl:Class>
        <owl:Class rdf:about="#Internal">
          <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Internal</rdfs:label>
          <rdfs:subClassOf>
            <owl:Class rdf:ID="Document"/>
          </rdfs:subClassOf>
        </owl:Class>
        <owl:Class rdf:about="#Product">
          <rdfs:subClassOf>
            <owl:Restriction>
              <owl:allValuesFrom rdf:resource="#Person"/>
              <owl:onProperty>
                <owl:ObjectProperty rdf:ID="IsAuthorBy"/>
              </owl:Restriction>
            </owl:Restriction>
          </rdfs:subClassOf>
        </owl:Class>
      </owl:Class>
    </owl:Class>

```

```

        </owl:onProperty>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
<rdfs:subClassOf>
    <owl:Restriction>
        <owl:allValuesFrom>
            <owl:Class rdf:about="#Project"/>
        </owl:allValuesFrom>
        <owl:onProperty>
            <owl:ObjectProperty rdf:ID="IsProduceFrom"/>
        </owl:onProperty>
    </owl:Restriction>
</rdfs:subClassOf>
<rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Product</rdfs:label>
</owl:Class>
<owl:Class
rdf:ID="Bidang_Teknologi_Agroindustri_Pangan_dan_Holtikultura">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Agroindustri"/>
</owl:Class>
<owl:Class rdf:ID="Instruction_Sheet">
    <rdfs:subClassOf rdf:resource="#Internal"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Kelembagaan_Difusi_Teknologi">
    <rdfs:subClassOf>
        <owl:Class rdf:ID="Pusat_Pengkajian_Kebijakan_Difusi_Teknologi"/>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Polimer_Rekayasa">
    <rdfs:subClassOf>
        <owl:Class rdf:ID="Pusat_Teknologi_Material"/>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Program_Manual">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Program Manual</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Internal"/>
</owl:Class>
<owl:Class rdf:about="#Pusat_Teknologi_Industri_dan_Sistem_Transpotasi">
    <rdfs:subClassOf>
        <owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_INDUSTRI_RANCANG_BANGUN_dan_REKAYASA"/>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Pemodelan_Sumber_Daya_Alam">
    <rdfs:subClassOf>
        <owl:Class
rdf:about="#Pusat_Teknologi_Inventarisasi_Sumber_Daya_Alam"/>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class
rdf:ID="Bidang_Teknologi_Pengembangan_Wilayah_dan_Pengelolaan_Kawasan">
    <rdfs:subClassOf>
        <owl:Class
rdf:ID="Pusat_Teknologi_Sumberdaya_Lahan_Wilayah_dan_Mitigasi_Bencana"/>
    </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Dampak_Pertambangan">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Sumber_Daya_Mineral"/>

```

```

</owl:Class>
<owl:Class
rdf:ID="Bidang_Teknologi_Agroindustri_Perikanan_dan_Peternakan">
  <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Agroindustri"/>
</owl:Class>
<owl:Class rdf:ID="Software">
  <rdfs:subClassOf rdf:resource="#Product"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Software</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Produksi_Biokatalis">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Teknologi_Bioindustri"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:about="#Document">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Document</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Product"/>
</owl:Class>
<owl:Class rdf:ID="Cooperation">
  <rdfs:subClassOf>
    <owl:Class rdf:about="#Project"/>
  </rdfs:subClassOf>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Cooperation</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="Bidang_Konversi_Energi">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Teknologi_Konversi_dan_Konservasi_Energi"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class
rdf:about="#Pusat_Teknologi_Sumberdaya_Lahan_Wilayah_dan_Mitigasi_Bencana">
  <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_PENGEMBANGAN_SUMBERDAYA_ALAM"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Logam_Paduan">
  <rdfs:subClassOf>
    <owl:Class rdf:about="#Pusat_Teknologi_Material"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Pertahanan_dan_Keamanan_Matra_Darat">
  <rdfs:subClassOf>
    <owl:Class
rdf:ID="Pusat_Teknologi_Industri_Pertahanan_dan_Keamanan"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Pertahanan_dan_Keamanan_Matra_Laut">
  <rdfs:subClassOf>
    <owl:Class
rdf:about="#Pusat_Teknologi_Industri_Pertahanan_dan_Keamanan"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Sistem_Elektronika">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Bidang Sistem Elektronika</rdfs:label>
  <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Informasi_dan_Komunikasi"/>
</owl:Class>

```

```

<owl:Class rdf:about="#Participation">
  <rdfs:subClassOf>
    <owl:Class rdf:about="#Project"/>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:onProperty>
        <owl:ObjectProperty rdf:ID="ParticipatedBy"/>
      </owl:onProperty>
      <owl:allValuesFrom rdf:resource="#Person"/>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    Participation</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="Bidang_Sumber_Daya_Inovasi_Teknologi">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Pengkajian_Kebijakan_Inovasi_Teknologi"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class
rdf:about="#Pusat_Pengkajian_Kebijakan_Peningkatan_daya_saing">
  <rdfs:subClassOf>
    <owl:Class
rdf:about="#DEPUTI_BIDANG_PENGAJIAN_KEBIJAKAN_TEKNOLOGI"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class
rdf:ID="Bidang_Teknologi_Pengelolaan_Bentang_Lahan_dan_Badan_Air">
  <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Sumberdaya_Lahan_Wilayah_dan_Mitigasi_Bencana"/>
</owl:Class>
<owl:Class rdf:about="#Pusat_Teknologi_Material">
  <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_ENERGI_MATERIAL_dan_LINGKUNGAN"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Teknologi_Produksi_Bahan_Baku_Farmasi">
  <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Farmasi_dan_Medika"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Pengembangan_Sumber_Daya_Baru_dan_Terbarukan">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Teknologi_Pengembangan_Sumber_Daya_Energi"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Final_Report">
  <rdfs:subClassOf rdf:resource="#Report"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    Final Report</rdfs:label>
</owl:Class>
<owl:Class rdf:ID="Prototype">
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
    Prototype</rdfs:label>
  <rdfs:subClassOf rdf:resource="#Product"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Konservasi_Energi">
  <rdfs:subClassOf>
    <owl:Class
rdf:about="#Pusat_Teknologi_Konversi_dan_Konservasi_Energi"/>
  </rdfs:subClassOf>

```



```

</owl:Class>
<owl:Class rdf:ID="Bidang_Tata_Kota_Lingkungan">
  <rdfs:subClassOf>
    <owl:Class rdf:ID="Pusat_Teknologi_Lingkungan"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:about="#Pusat_Pengkajian_Kebijakan_Difusi_Teknologi">
  <rdfs:subClassOf>
    <owl:Class
rdf:about="#DEPUTI_BIDANG_PENGAJIAN_KEBIJAKAN_TEKNOLOGI"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Pengembangan_Sumber_Daya_Energi_Fosil">
  <rdfs:subClassOf>
    <owl:Class
rdf:about="#Pusat_Teknologi_Pengembangan_Sumber_Daya_Energi"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Daya_Saing_Industri">
  <rdfs:subClassOf
rdf:resource="#Pusat_Pengkajian_Kebijakan_Peningkatan_daya_saing"/>
</owl:Class>
<owl:Class rdf:ID="Bidang_Perencanaan_Energi">
  <rdfs:subClassOf
rdf:about="#Pusat_Teknologi_Pengembangan_Sumber_Daya_Energi"/>
</rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:ID="Bidang_Kapasitas_Absorbsi">
  <rdfs:subClassOf
rdf:resource="#Pusat_Pengkajian_Kebijakan_Difusi_Teknologi"/>
</owl:Class>
<owl:Class rdf:about="#DEPUTI_BIDANG_PENGAJIAN_KEBIJAKAN_TEKNOLOGI">
  <rdfs:subClassOf>
    <owl:Class rdf:about="#Organization"/>
  </rdfs:subClassOf>
</owl:Class>
<owl:Class rdf:about="#External">
  <rdfs:subClassOf rdf:resource="#Document"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>External</rdfs:label>
</owl:Class>
<owl:Class rdf:about="#Pusat_Teknologi_Inventarisasi_Sumber_Daya_Alam">
  <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_PENGEMBANGAN_SUMBERDAYA_ALAM"/>
</owl:Class>
<owl:Class rdf:about="#Competency">
  <rdfs:subClassOf>
    <owl:Restriction>
      <owl:allValuesFrom rdf:resource="#Person"/>
      <owl:onProperty>
        <owl:ObjectProperty rdf:ID="IsHad"/>
      </owl:onProperty>
    </owl:Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
  <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Competency</rdfs:label>
</owl:Class>
<owl:Class rdf:about="#Pusat_Teknologi_Lingkungan">

```

```

    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_PENGEMBANGAN_SUMBERDAYA_ALAM"/>
  </owl:Class>
  <owl:Class rdf:about="#Project">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Project</rdfs:label>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:someValuesFrom rdf:resource="#Product"/>
        <owl:onProperty>
          <owl:ObjectProperty rdf:ID="Produce"/>
        </owl:onProperty>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:onProperty>
          <owl:ObjectProperty rdf:ID="DevelopedBy"/>
        </owl:onProperty>
        <owl:allValuesFrom>
          <owl:Class rdf:about="#Organization"/>
        </owl:allValuesFrom>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:allValuesFrom rdf:resource="#Person"/>
        <owl:onProperty>
          <owl:ObjectProperty rdf:ID="HeadBy"/>
        </owl:onProperty>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:allValuesFrom rdf:resource="#Person"/>
        <owl:onProperty>
          <owl:ObjectProperty rdf:ID="DoneBy"/>
        </owl:onProperty>
      </owl:Restriction>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Produksi_Agrokimia">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Pusat_Teknologi_Bioindustri"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Kemampuan_Inovasi_Teknologi">
    <rdfs:subClassOf>
      <owl:Class
rdf:about="#Pusat_Pengkajian_Kebijakan_Inovasi_Teknologi"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Pengendalian_Pencemaran_Lingkungan">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Lingkungan"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Rekayasa_Biomedika">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Farmasi_dan_Medika"/>
  </owl:Class>
  <owl:Class rdf:about="#Pusat_Teknologi_Pengembangan_Sumber_Daya_Energi">

```

```

    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_ENERGI_MATERIAL_dan_LINGKUNGAN"/>
  </owl:Class>
  <owl:Class
rdf:ID="Bidang_Teknologi_Pengembangan_Formula_dan_Sediaan_Farmasi">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Farmasi_dan_Medika"/>
  </owl:Class>
  <owl:Class rdf:ID="Paper">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Paper</rdfs:label>
    <rdfs:subClassOf rdf:resource="#External"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Pertahanan_dan_Keamanan_Matra_Udara">
    <rdfs:subClassOf>
      <owl:Class
rdf:about="#Pusat_Teknologi_Industri_Pertahanan_dan_Keamanan"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Eksplorasi_dan_Penambangan">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Sumber_Daya_Mineral"/>
  </owl:Class>
  <owl:Class
rdf:ID="Bidang_Teknologi_Konservasi_dan_Pemulihan_Kualitas_Lingkungan">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Lingkungan"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Rekayasa_Sistem">
    <rdfs:subClassOf>
      <owl:Class
rdf:about="#Pusat_Teknologi_Konversi_dan_Konservasi_Energi"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Produksi_Pangan_Fungsional">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Pusat_Teknologi_Bioindustri"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Sistem_Informasi_dan_Komputasi">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
  >Bidang Sistem Informasi dan Komputasi</rdfs:label>
    <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Informasi_dan_Komunikasi"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Karakterisasi_Sumber_Daya_Alam">
    <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Inventarisasi_Sumber_Daya_Alam"/>
  </owl:Class>
  <owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_AGROINDUSTRI_dan_BIOTEKNOLOGI">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Organization"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class
rdf:ID="Bidang_Teknologi_Industri_Peralatan_Konstruksi_dan_Pertambangan">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Industri_Manufaktur"/>
  </owl:Class>
  <owl:Class
rdf:ID="Bidang_Teknologi_Produksi_Tanaman_Perkebunan_dan_Perhutanan">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Pusat_Teknologi_Produksi_Pertanian"/>

```

```

    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:about="#Pusat_Teknologi_Produksi_Pertanian">
    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_AGROINDUSTRI_dan_BIOTEKNOLOGI"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Sistem_Transportasi">
    <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Industri_dan_Sistem_Transpotasi"/>
  </owl:Class>
  <owl:Class rdf:about="#Pusat_Pengkajian_Kebijakan_Inovasi_Teknologi">
    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_PENGAJIAN_KEBIJAKAN_TEKNOLOGI"/>
  </owl:Class>
  <owl:Class rdf:ID="Decision_Sheet">
    <rdfs:subClassOf rdf:resource="#Internal"/>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Decision Sheet</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="SoftSkill">
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Soft Skill</rdfs:label>
    <rdfs:subClassOf rdf:resource="#Competency"/>
  </owl:Class>
  <owl:Class rdf:ID="MidTerm_Report">
    <rdfs:subClassOf rdf:resource="#Report"/>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
>Middle Term Report</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Mitigasi_Bencana">
    <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Sumberdaya_Lahan_Wilayah_dan_Mitigasi_Bencan
a"/>
  </owl:Class>
  <owl:Class
rdf:ID="Bidang_Teknologi_Industri_Mesin_dan_Peralatan_Listrik">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Industri_Manufaktur"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Industri_Logam">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Industri_Proses"/>
  </owl:Class>
  <owl:Class rdf:about="#Pusat_Teknologi_Industri_Pertahanan_dan_Keamanan">
    <rdfs:subClassOf>
      <owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_INDUSTRI_RANCANG_BANGUN_dan_REKAYASA"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Sarana_Transportasi">
    <rdfs:subClassOf
rdf:resource="#Pusat_Teknologi_Industri_dan_Sistem_Transpotasi"/>
  </owl:Class>
  <owl:Class rdf:about="#Pusat_Teknologi_Konversi_dan_Konservasi_Energi">
    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_ENERGI_MATERIAL_dan_LINGKUNGAN"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Perencanaan_Inovasi_Teknologi">
    <rdfs:subClassOf
rdf:resource="#Pusat_Pengkajian_Kebijakan_Inovasi_Teknologi"/>
  </owl:Class>
  <owl:Class rdf:ID="HardSkill">

```

```

    <rdfs:subClassOf rdf:resource="#Competency"/>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Hard Skill</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Industri_Kimia">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Industri_Proses"/>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Manajemen_Difusi_Teknologi">
    <rdfs:subClassOf
rdf:resource="#Pusat_Pengkajian_Kebijakan_Difusi_Teknologi"/>
  </owl:Class>
  <owl:Class
rdf:about="#DEPUTI_BIDANG_TEKNOLOGI_INDUSTRI_RANCANG_BANGUN_dan_REKAYASA">
    <rdfs:subClassOf>
      <owl:Class rdf:about="#Organization"/>
    </rdfs:subClassOf>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Teknologi_Pengolahan_dan_Tekno-
Ekonomi_Mineral">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Sumber_Daya_Mineral"/>
  </owl:Class>
  <owl:Class rdf:about="#Pusat_Teknologi_Bioindustri">
    <rdfs:subClassOf
rdf:resource="#DEPUTI_BIDANG_TEKNOLOGI_AGROINDUSTRI_dan_BIOTEKNOLOGI"/>
  </owl:Class>
  <owl:Class rdf:ID="Technical_Report">
    <rdfs:subClassOf rdf:resource="#Internal"/>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Technical Report</rdfs:label>
  </owl:Class>
  <owl:Class rdf:about="#Organization">
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:onProperty>
          <owl:ObjectProperty rdf:ID="IsWorkOnBy"/>
        </owl:onProperty>
        <owl:someValuesFrom rdf:resource="#Person"/>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf>
      <owl:Restriction>
        <owl:onProperty>
          <owl:ObjectProperty rdf:ID="Developes"/>
        </owl:onProperty>
        <owl:allValuesFrom rdf:resource="#Project"/>
      </owl:Restriction>
    </rdfs:subClassOf>
    <rdfs:subClassOf rdf:resource="http://www.w3.org/2002/07/owl#Thing"/>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string"
    >Organization</rdfs:label>
  </owl:Class>
  <owl:Class rdf:ID="Bidang_Keramik_Rekayasa">
    <rdfs:subClassOf rdf:resource="#Pusat_Teknologi_Material"/>
  </owl:Class>
  <owl:ObjectProperty rdf:about="#Participate">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#ParticipatedBy"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#IsHad">

```

```

    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#Has"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#ParticipatedBy">
    <owl:inverseOf rdf:resource="#Participate"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#IsDoing">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#DoneBy"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#HeadOf">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#HeadBy"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#AuthorOf">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#IsAuthorBy"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#DoneBy">
    <owl:inverseOf rdf:resource="#IsDoing"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#DevelopedBy">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#Developes"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#IsWorkOnBy">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#WorksOn"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#HeadBy">
    <owl:inverseOf rdf:resource="#HeadOf"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#Developes">
    <owl:inverseOf rdf:resource="#DevelopedBy"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#Has">
    <owl:inverseOf rdf:resource="#IsHad"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#Produce">
    <owl:inverseOf>
      <owl:ObjectProperty rdf:about="#IsProduceFrom"/>
    </owl:inverseOf>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#IsAuthorBy">
    <owl:inverseOf rdf:resource="#AuthorOf"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#WorksOn">
    <owl:inverseOf rdf:resource="#IsWorkOnBy"/>
  </owl:ObjectProperty>
  <owl:ObjectProperty rdf:about="#IsProduceFrom">
    <owl:inverseOf rdf:resource="#Produce"/>
  </owl:ObjectProperty>
  <owl:DatatypeProperty rdf:ID="pendidikan">
    <rdfs:domain rdf:resource="#Person"/>

```

```

    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="alamat">
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    <rdfs:domain rdf:resource="#Person"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="telepon">
    <rdfs:domain rdf:resource="#Person"/>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="deskripsi">
    <rdfs:comment rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
      ></rdfs:comment>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="foto">
    <rdfs:domain rdf:resource="#Person"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="nama">
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    <rdfs:label rdf:datatype="http://www.w3.org/2001/XMLSchema#string">
      ></rdfs:label>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="penerbit">
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    <rdfs:domain>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Book"/>
          <owl:Class rdf:about="#Paper"/>
        </owl:unionOf>
      </owl:Class>
    </rdfs:domain>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="tanggal">
    <rdfs:domain rdf:resource="#Product"/>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#date"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="nip">
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
    <rdfs:domain rdf:resource="#Person"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="volume">
    <rdfs:domain>
      <owl:Class>
        <owl:unionOf rdf:parseType="Collection">
          <owl:Class rdf:about="#Book"/>
          <owl:Class rdf:about="#Paper"/>
        </owl:unionOf>
      </owl:Class>
    </rdfs:domain>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="email">
    <rdfs:domain rdf:resource="#Person"/>
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  </owl:DatatypeProperty>
  <owl:DatatypeProperty rdf:ID="statusproyek"/>
  <owl:DatatypeProperty rdf:ID="versi">
    <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>

```

```
<rdfs:domain rdf:resource="#Product"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="pemilikproyek"/>
<owl:DatatypeProperty rdf:ID="homepage">
  <rdfs:domain rdf:resource="#Person"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="link">
  <rdfs:domain rdf:resource="#Document"/>
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
</owl:DatatypeProperty>
<owl:DatatypeProperty rdf:ID="tahun">
  <rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
  <rdfs:domain rdf:resource="#Project"/>
</owl:DatatypeProperty>
</rdf:RDF>

<!-- Created with Protege (with OWL Plugin 3.4, Build 533)
http://protege.stanford.edu -->
```



LAMPIRAN C *Instance Data*

Berikut merupakan salah satu contoh *file instance data* pada *class Product*.

```
# Base: http://mybase
@prefix :      <#> .
@prefix bppt:  <http://www.owl-
ontologies.com/Ontology1240287328.owl#> .
@prefix rdf:   <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix rdf123: <http://rdf123.umbc.edu/ns/> .

bppt:DOKIN1
  a          bppt:Decision_Sheet ;
  bppt:IsAuthorBy bppt:dwi ;
  bppt:IsProduceFrom bppt:FOSS ;
  bppt:nama "Decision Sheet FOSSKOM" ;
  bppt:tanggal "5 Januari 2009" ;
  bppt:versi "1.0" ;
  bppt:link "decisionsheet_webmining_april2008.doc".

bppt:DOKIN2
  a          bppt:Instruction_Sheet ;
  bppt:IsAuthorBy bppt:dwi ;
  bppt:IsProduceFrom bppt:FOSS ;
  bppt:nama "Instruction Sheet FOSSKOM" ;
  bppt:tanggal "27 Januari 2009" ;
  bppt:versi "1.0" .

bppt:DOKIN3
  a          bppt:Program_Manual ;
  bppt:IsAuthorBy bppt:dwi ;
  bppt:IsProduceFrom bppt:FOSS ;
  bppt:nama "Program Manual FOSSKOM" ;
  bppt:tanggal "24 November 2008" ;
  bppt:versi "1.0" .

bppt:DOKIN4
  a          bppt:Final_Report ;
  bppt:IsAuthorBy bppt:dwi , bppt:khamami , bppt:muhamad ;
  bppt:IsProduceFrom bppt:EGOV ;
  bppt:nama "Final Report E-Gov Kota Bogor" ;
  bppt:tanggal "27 September 2008" ;
  bppt:versi "1.0" .
```

Lampiran C.1 *Instance Data Class Product*

LAMPIRAN D *DataSources*

Lampiran ini berisikan *datasource* untuk tiga *class*, yaitu *Person*, *Project*, dan *Product* serta *datasource* tambahan yang berfungsi untuk menampilkan semua *class* sesuai dengan ontologi BPPT.

```
# (c) Copyright 2004, Hewlett-Packard Development Company, LP, all rights reserved.

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .
@prefix skos: <http://www.w3c.rl.ac.uk/2003/11/21-skos-core#> .
@prefix dc: <http://purl.org/dc/elements/1.1/> .

@prefix pcv: <http://jena.hpl.hp.com/2003/04/portal-config-vocab#> .
@prefix hv: <http://jena.hpl.hp.com/2004/05/harvester_vocab#> .

@prefix bppt: <http://www.owl-ontologies.com/Ontology1240287328.owl#> .

# Portal configuration

# List of all known data sources and where to get them from.
# Each must have a distinct label and an dc:source definition

#----- An early test data source, trivial, really -----

[] rdf:type pcv:DataSource ;
   rdfs:label "Person" ;
   pcv:encoding "p1" ;
   pcv:order "10"^^xsd:integer ;
   dc:description "Prototype Research Portal" ;

   pcv:sourceURL <portal://data/personbppt.n3> ;
   pcv:sourceURL <portal://data/orgbppt.n3> ;
   pcv:sourceURL <portal://data/productbppt.n3> ;
   pcv:sourceURL <portal://data/competencybppt.n3> ;
   pcv:sourceURL <portal://data/projectbppt.n3> ;

   pcv:ontologySourceURL <portal://data/ontologyBPPT.owl> ;
   pcv:styleSheet "site.css" ;

   pcv:indexVocabularyTerms "true"^^xsd:boolean;
   pcv:indexOntologyBy ( rdfs:label ) ;
   pcv:preferredLanguage "en" ;

   pcv:textIndex <portal://WEB-INF/index> ;
   pcv:closureRulesURL <portal://data/BPPT.rules> ;

# pcv:baseRelationProperty swrc:link;
# pcv:primaryProperty swrc:name;
```

```

pcv:filterOnType bppt:Person;

pcv:template [a pcv:Template;
pcv:templateContext "pageRaw" ;
pcv:templatePath <portal://templates/pageDefault.vm> ;
];

pcv:facet bppt:plnameFacet ;
pcv:facet bppt:plproductFacet ;
pcv:facet bppt:plfieldFacet ;
pcv:facet bppt:plskillFacet;

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageDefault.vm> ;
];

pcv:template [a pcv:Template;
pcv:templateContext "default" ;
pcv:templatePath <portal://templates/leaf.vm> ;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pagePersonBPPT.vm> ;
pcv:templateClass bppt:Person;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageProjectBPPT.vm> ;
pcv:templateClass bppt:Project;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageProductBPPT.vm> ;
pcv:templateClass bppt:Product;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageOrgBPPT.vm> ;
pcv:templateClass bppt:Organization;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageCompetencyBPPT.vm> ;
pcv:templateClass bppt:Competency;
];

.

bppt:plnameFacet a pcv:AlphaRangeFacet;
rdfs:label "Name" ;
pcv:linkProp bppt:nama;
pcv:order "1"^^xsd:integer;

```

```

bppt:plproductFacet a pcv:Facet;
    rdfs:label "Product" ;
    pcv:linkProp bppt:AuthorOf ;
    pcv:order "3"^^xsd:integer;

.

bppt:plfieldFacet a pcv:Facet;
    rdfs:label "Field" ;
    pcv:linkProp bppt:WorksOn;
    pcv:order "2"^^xsd:integer;

.

bppt:plskillFacet a pcv:Facet;
    rdfs:label "Competency";
    pcv:linkProp bppt:Has;
    pcv:order "4"^^xsd:integer;

.

#----- object P2 : PROJECT -----

[] rdf:type pcv:DataSource ;
    rdfs:label "Project" ;
    pcv:encoding "p2";
    pcv:order "20"^^xsd:integer ;
    dc:description "Prototype Research Portal" ;

    pcv:sourceURL <portal://data/personbppt.n3> ;
    pcv:sourceURL <portal://data/orgbppt.n3> ;
    pcv:sourceURL <portal://data/productbppt.n3> ;
    pcv:sourceURL <portal://data/competencybppt.n3> ;
    pcv:sourceURL <portal://data/projectbppt.n3> ;

    pcv:ontologySourceURL <portal://data/ontologyBPPT.owl> ;
    pcv:styleSheet "site.css" ;

    pcv:indexVocabularyTerms "true"^^xsd:boolean;
    pcv:indexOntologyBy ( rdfs:label ) ;
    pcv:preferredLanguage "en" ;

    pcv:textIndex <portal://WEB-INF/index> ;
    pcv:closureRulesURL <portal://data/BPPT.rules> ;

# pcv:baseRelationProperty swrc:link;
pcv:filterOnType bppt:Project;

pcv:template [a pcv:Template;
pcv:templateContext "pageRaw" ;
pcv:templatePath <portal://templates/pageDefault.vm> ;
];

pcv:facet bppt:p2titleFacet;
pcv:facet bppt:p2typeFacet;
pcv:facet bppt:p2personFacet;
pcv:facet bppt:p2fieldFacet;
pcv:facet bppt:p2yearFacet;
pcv:facet bppt:p2productFacet;

```

```

pcv:template [a pcv:Template;
  pcv:templateContext "page" ;
  pcv:templatePath <portal://templates/pageDefault.vm> ;
];

pcv:template [a pcv:Template;
  pcv:templateContext "default" ;
  pcv:templatePath <portal://templates/leaf.vm> ;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pagePersonBPPT.vm> ;
pcv:templateClass bppt:Person;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageProjectBPPT.vm> ;
pcv:templateClass bppt:Project;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageProductBPPT.vm> ;
pcv:templateClass bppt:Product;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageOrgBPPT.vm> ;
pcv:templateClass bppt:Organization;
];

pcv:template [a pcv:Template;
pcv:templateContext "page" ;
pcv:templatePath <portal://templates/pageCompetencyBPPT.vm> ;
pcv:templateClass bppt:Competency;
];

.

bppt:p2titleFacet a pcv:AlphaRangeFacet;
  rdfs:label "Title" ;
  pcv:linkProp bppt:nama;
  pcv:order "1"^^xsd:integer;

.

bppt:p2typeFacet a pcv:HierarchicalFacet;
  rdfs:label "Type";
  pcv:linkProp rdf:type;
  pcv:widenP rdfs:subClassOf ;
  pcv:facetBase bppt:Project ;
  pcv:order "2"^^xsd:integer;

.

bppt:p2personFacet a pcv:Facet;
  rdfs:label "Person" ;
  pcv:linkProp bppt:DoneBy;
  pcv:order "3"^^xsd:integer;

```

```

bppt:p2fieldFacet a pcv:Facet;
  rdfs:label "Field" ;
  pcv:linkProp bppt:DevelopedBy;
  pcv:order "4"^^xsd:integer;

bppt:p2yearFacet a pcv:Facet;
  rdfs:label "Year";
  pcv:linkProp bppt:tahun;
  pcv:order "5"^^xsd:integer;

bppt:p2productFacet a pcv:Facet;
  rdfs:label "Product";
  pcv:linkProp bppt:Produce;
  pcv:order "6"^^xsd:integer;

#----- object P3 : PRODUCT -----

[] rdf:type pcv:DataSource ;
  rdfs:label "Product" ;
  pcv:encoding "p3";
  pcv:order "30"^^xsd:integer ;
  dc:description "Prototype Research Portal" ;

  pcv:sourceURL <portal://data/personbppt.n3> ;
  pcv:sourceURL <portal://data/orgbppt.n3> ;
  pcv:sourceURL <portal://data/productbppt.n3> ;
  pcv:sourceURL <portal://data/competencybppt.n3> ;
  pcv:sourceURL <portal://data/projectbppt.n3> ;

  pcv:ontologySourceURL <portal://data/ontologyBPPT.owl> ;
  pcv:styleSheet "site.css" ;

  pcv:indexVocabularyTerms "true"^^xsd:boolean;
  pcv:indexOntologyBy ( rdfs:label ) ;
  pcv:preferredLanguage "en" ;

  pcv:textIndex <portal://WEB-INF/index> ;
  pcv:closureRulesURL <portal://data/BPPT.rules> ;

  pcv:template [a pcv:Template;
  pcv:templateContext "pageRaw" ;
  pcv:templatePath <portal://templates/pageDefault.vm> ;
  ] ;

  pcv:facet bppt:p3typeFacet ;
  pcv:facet bppt:p3authorFacet ;
  pcv:facet bppt:p3titleFacet ;
  pcv:facet bppt:p3yearFacet ;
  pcv:facet bppt:p3projectFacet ;

# pcv:baseRelationProperty swrc:link;
pcv:filterOnType bppt:Product;

pcv:template [a pcv:Template;

```

```

    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pageDefault.vm> ;
];

pcv:template [a pcv:Template;
    pcv:templateContext "default" ;
    pcv:templatePath <portal://templates/leaf.vm> ;
];

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pagePersonBPPT.vm> ;
    pcv:templateClass bppt:Person;
];

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pageProjectBPPT.vm> ;
    pcv:templateClass bppt:Project;
];

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pageProductBPPT.vm> ;
    pcv:templateClass bppt:Product;
];

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pageOrgBPPT.vm> ;
    pcv:templateClass bppt:Organization;
];

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pageCompetencyBPPT.vm> ;
    pcv:templateClass bppt:Competency;
];
.

bppt:p3typeFacet a pcv:HierarchicalFacet;
    rdfs:label "Type" ;
    pcv:linkProp rdf:type;
    pcv:widenP rdfs:subClassOf ;
    pcv:facetBase bppt:Product ;
    pcv:order "1"^^xsd:integer;
.

bppt:p3titleFacet a pcv:AlphaRangeFacet;
    rdfs:label "Title" ;
    pcv:linkProp bppt:nama;
    pcv:order "2"^^xsd:integer;
.

bppt:p3authorFacet a pcv:Facet;
    rdfs:label "Author" ;
    pcv:linkProp bppt:IsAuthorBy;
    pcv:order "3"^^xsd:integer;
.

```

```

bppt:p3yearFacet a pcv:Facet;
    rdfs:label "Release Date" ;
    pcv:linkProp bppt:tanggal;
    pcv:order "5"^^xsd:integer;
.

bppt:p3projectFacet a pcv:Facet;
    rdfs:label "Project" ;
    pcv:linkProp bppt:IsProduceFrom;
    pcv:order "6"^^xsd:integer;
.

#----- P4 : ALL OBJECTS -----

[] rdf:type pcv:DataSource ;
    rdfs:label "All" ;
    pcv:encoding "p4";
    pcv:order "1"^^xsd:integer ;
    dc:description "Prototype Research Portal" ;

    pcv:sourceURL <portal://data/personbppt.n3> ;
    pcv:sourceURL <portal://data/orgbppt.n3> ;
    pcv:sourceURL <portal://data/productbppt.n3> ;
    pcv:sourceURL <portal://data/competencybppt.n3> ;
    pcv:sourceURL <portal://data/projectbppt.n3> ;

    pcv:ontologySourceURL <portal://data/ontologyBPPT.owl> ;
    pcv:styleSheet "site.css" ;

    pcv:indexVocabularyTerms "true"^^xsd:boolean;
    pcv:indexOntologyBy ( rdfs:label ) ;
    pcv:preferredLanguage "en" ;

    pcv:textIndex <portal://WEB-INF/index> ;
    pcv:closureRulesURL <portal://data/BPPT.rules> ;

    pcv:template [a pcv:Template;
        pcv:templateContext "pageRaw" ;
        pcv:templatePath <portal://templates/pageDefault.vm> ;
    ];

pcv:facet bppt:p4allFacet;

#pcv:baseRelationProperty swrc:link;

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;
    pcv:templatePath <portal://templates/pageDefault.vm> ;
];

pcv:template [a pcv:Template;
    pcv:templateContext "default" ;
    pcv:templatePath <portal://templates/leaf.vm> ;
];

pcv:template [a pcv:Template;
    pcv:templateContext "page" ;

```



```

pcv:templatePath      <portal://templates/pagePersonBPPT.vm> ;
pcv:templateClass     bppt:Person;
];

pcv:template [a pcv:Template;
pcv:templateContext  "page" ;
pcv:templatePath     <portal://templates/pageProjectBPPT.vm> ;
pcv:templateClass     bppt:Project;
];

pcv:template [a pcv:Template;
pcv:templateContext  "page" ;
pcv:templatePath     <portal://templates/pageProductBPPT.vm> ;
pcv:templateClass     bppt:Product;
];

pcv:template [a pcv:Template;
pcv:templateContext  "page" ;
pcv:templatePath     <portal://templates/pageOrgBPPT.vm> ;
pcv:templateClass     bppt:Organization;
];

pcv:template [a pcv:Template;
pcv:templateContext  "page" ;
pcv:templatePath     <portal://templates/pageCompetencyBPPT.vm> ;
pcv:templateClass     bppt:Competency;
];

.

bppt:p4allFacet a pcv:HierarchicalFacet;
  rdfs:label "Objects" ;
  pcv:linkProp rdf:type;
  pcv:widenP rdfs:subClassOf;
  pcv:facetBase owl:Thing ;
  pcv:order "1"^^xsd:integer;
.

```

LAMPIRAN E *Resource Page*

Lampiran ini berisikan *code* salah satu *resource page*, yaitu untuk *class Competency*.

```
## Velocity template for render objects of type Topic / Subject in page
format

<h1 class="recordtitle">
$resource.getPropertyValue("bppt:nama")</h1>

<table width="100%">
  <tr> <td width="10%"><b> Belongs To: </b> </td>
      <td width="90%">
        #foreach ($p in $resource.findProperties("bppt:IsHad"))
          #foreach ($v in $p.values)
            $v.render("leaf", $request)
          #end
        #end
      </td>
    </tr>
    <tr height="8"></tr>

  <tr>
    <td><b> Type:</b></td>
    <td>
      #if($resource.hasType("bppt:HardSkill"))
        Hard Skill
      #end
      #if($resource.hasType("bppt:SoftSkill"))
        Soft Skill
      #end
    </td>
  </tr>
</table>
```

Lampiran E.1 *Resource Page Class Competency*