

Mobility Vocabulary Development & Showcase

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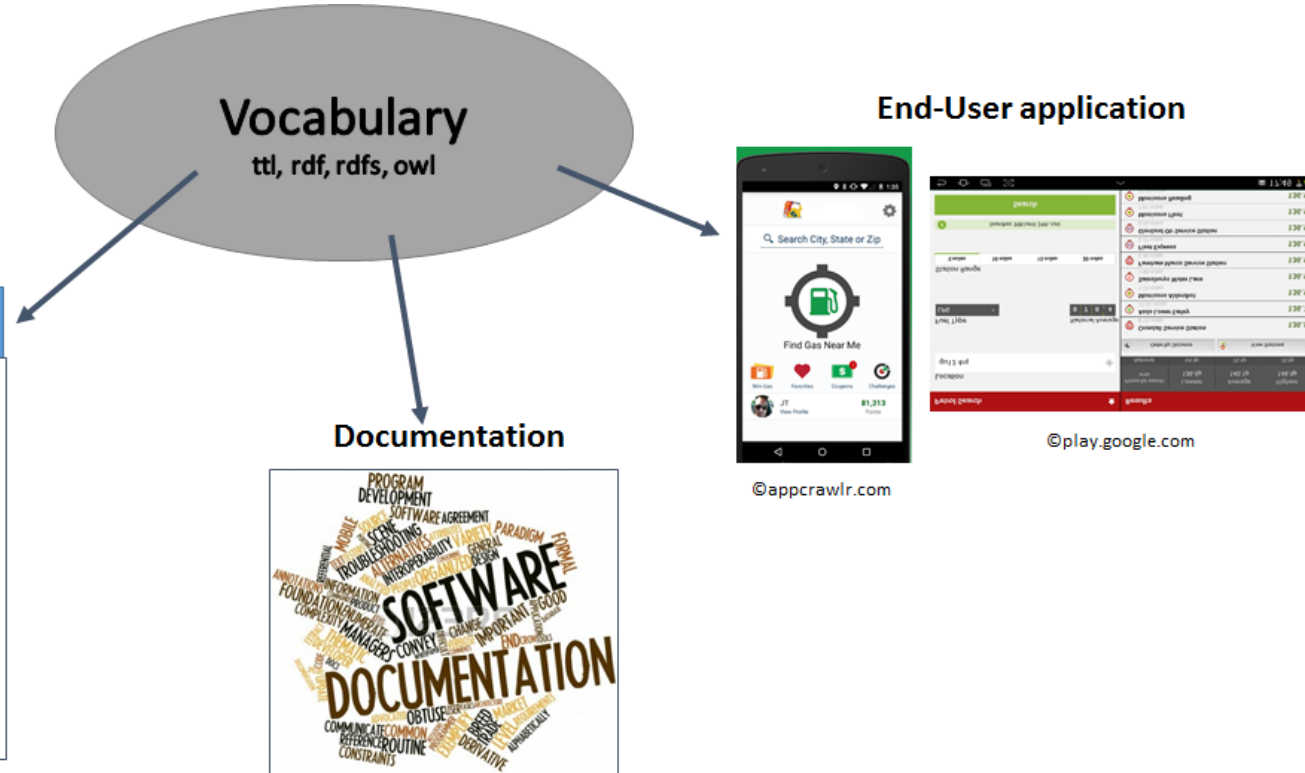
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Outline

- Architectural Components
- Domain Specific Knowledge
- Technical Documentation for Mobivoc
- Technical Documentation for End-User Application
- End-User System Documentation

Architectural Components



Structure of a SPARQL Query

Type of query

Definition of prefixes

Variables, i.e. what to search for

RDF triple patterns, i.e. the conditions that have to be met

```

PREFIX rov: <http://www.w3.org/TR/vocab-regorg/>
SELECT ?name
WHERE
{ ?x rov:legalName ?name }
    
```

OPEN DATA SUPPORT

Slide 25

Domain Specific Knowledge

```
<xs:annotation>
  <xs:documentation>No load.</xs:documentation>
</xs:annotation>
</xs:enumeration>
<xs:enumeration value="explosiveMaterials">
  <xs:annotation>
    <xs:documentation>Explosive materials of unspecified type.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="extraHighLoad">
  <xs:annotation>
    <xs:documentation>A load of exceptional height.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="extraLongLoad">
  <xs:annotation>
    <xs:documentation>A load of exceptional length.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="extraWideLoad">
  <xs:annotation>
    <xs:documentation>A load of exceptional width.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="fuel">
  <xs:annotation>
    <xs:documentation>Fuel of unspecified type.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="glass">
  <xs:annotation>
    <xs:documentation>Glass.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="goods">
  <xs:annotation>
    <xs:documentation>Any goods of a commercial nature.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="hazardousMaterials">
  <xs:annotation>
    <xs:documentation>Materials classed as being of a hazardous nature.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
<xs:enumeration value="liquid">
  <xs:annotation>
    <xs:documentation>Liquid of an unspecified nature.</xs:documentation>
  </xs:annotation>
</xs:enumeration>
```

Datex Schema from the Bundeskartellamt

Technical Documentation for MobiVoc

Report for several artifacts

Technical report generated by Parrot, a RIF and OWL documentation service



Parrot
tool

Feedback

Table of contents

C Classes (1):

[fuel](#)

P Properties (4):

[cetane number](#) , [methane number](#) , [octane number](#) , [price](#)

[Glossary \(8 entries\)](#)

Classes

[fuel](#)

Glossary

CN

P [cetane number](#)

MN

P [methane number](#)

cetane number

P [cetane number](#)

fuel

C [fuel](#)

methane number

P [methane number](#)

octane number

P [octane number](#)

octane rating

P [octane number](#)

price

P [price](#)

Technical Documentation for MobiVoc

Classes

[fuel](#)

fuel (RDFS Class)

Material to produce energy for motor vehicles.







Definition

In use

Documentation

Definition

The **URI** of this class is <http://eccenca.com/mobivoc/Fuel>

This class is a super class of <http://eccenca.com/mobivoc/DieselFuel>  <http://eccenca.com/mobivoc/Ethanol>  <http://eccenca.com/mobivoc/Hydrogen> 
<http://eccenca.com/mobivoc/LiquidGas>  <http://eccenca.com/mobivoc/Methane>  <http://eccenca.com/mobivoc/Petrol> 

Properties

[cetane number](#) , [methane number](#) , [octane number](#) , [price](#)


price (Property) DP



Indicates the price of fuel.

Definition

The **URI** of this property is <http://eccenca.com/mobivoc/Price>

This property is a **data** property.

The domain of this property is  [fuel](#)

The range of this property is  [rdfs:Literal](#) 

Technical Documentation for End-User Application

For Server Side:

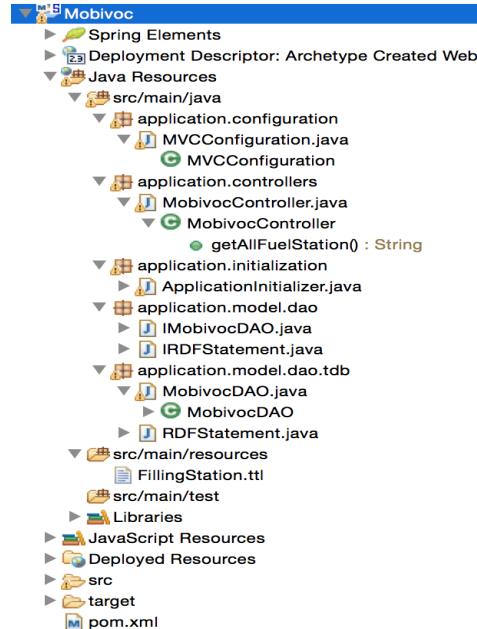
- ❖ Spring Framework
 - Code Comment
 - File Name Convention
 - Directory Structure

For Client Side:

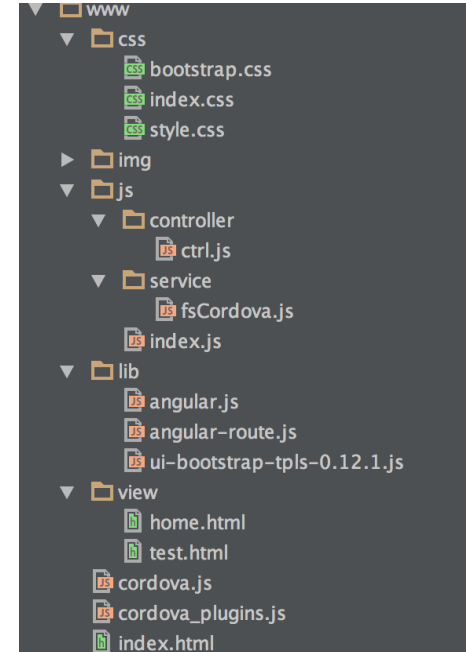
- ❖ Apache Cordova
 - Code Comment
 - File Name Convention
 - Directory Structure

For End-User Documentation(User Manual):

- ❖ Help page html



Server Side



Client Side