

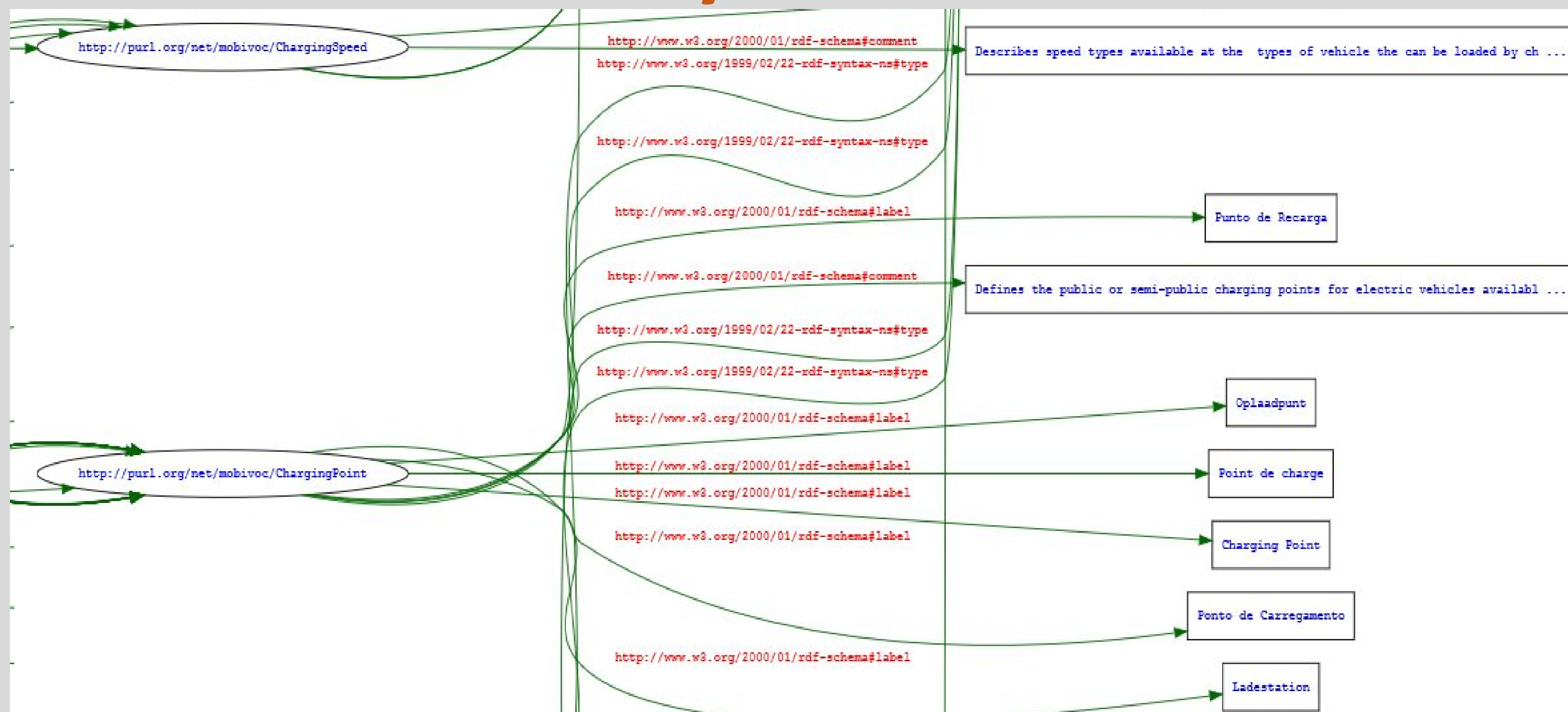
Goal

- Development of a standardised vocabulary for fuel data and for electrical vehicles
- Creation of an end-user application which uses the developed vocabulary

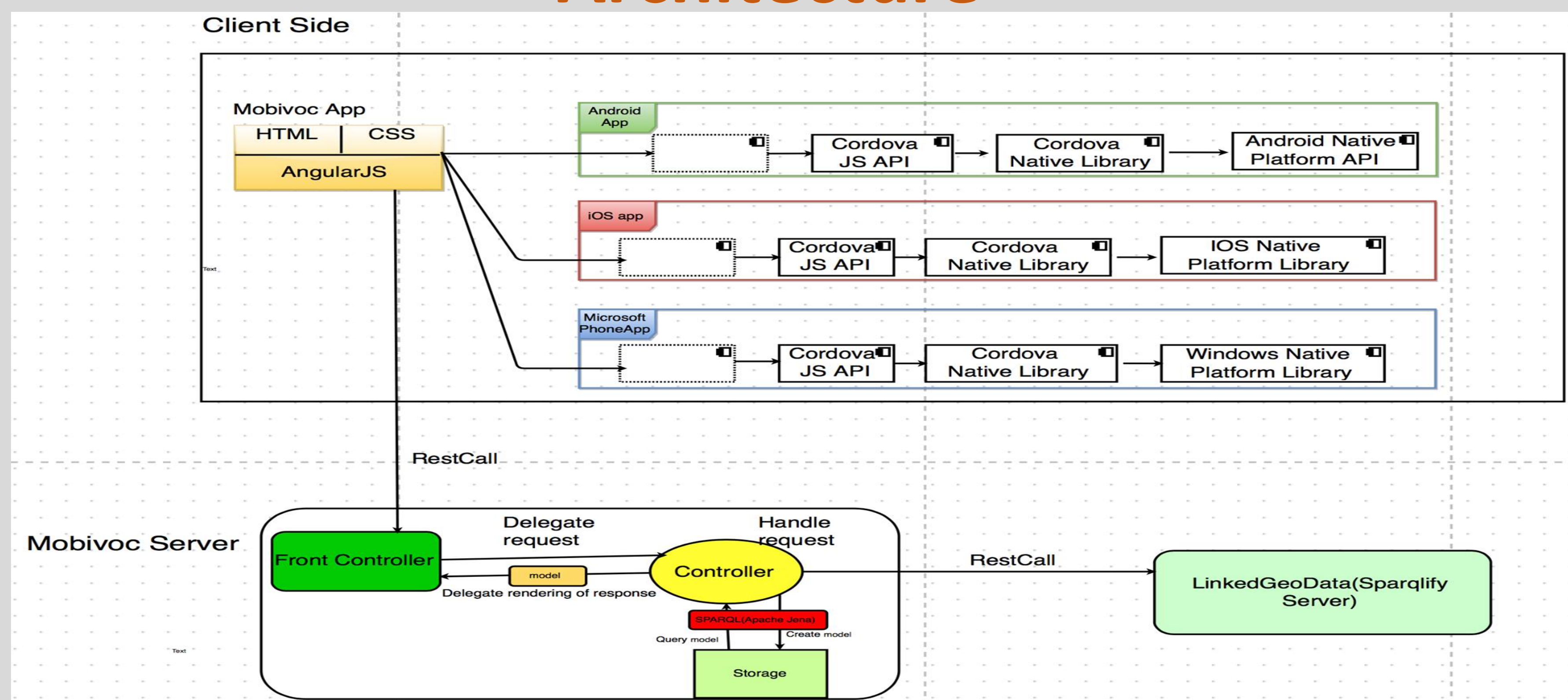
Technology

- MobiVoc
- RDF
- SPARQL API (Apache Jena)
- OWL 2.0
- RDFS
- Apache Cordova
- Java Spring
- REST
- AngularJS
- Apache Tomcat

Vocabulary Visualization

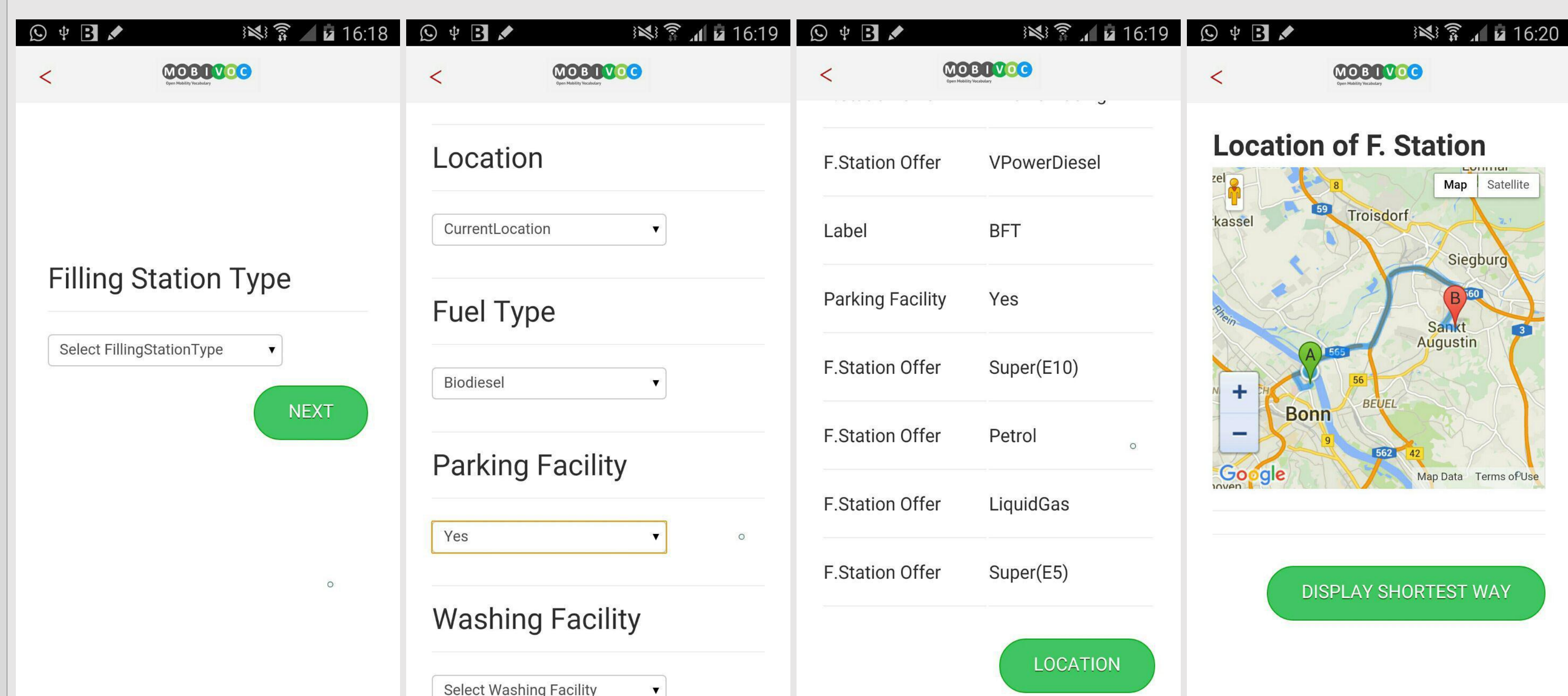


Architecture



End-user Application

The system shows the functionality of the new vocabulary that is developed. It is written in Java on Eclipse, implemented in Java spring, works on mobiles as well as pads. Application uses data from GeoSparql. It queries on GeoSparql and returns the results which are stored as turtle format in the server side. Application has also client side which shows the query results within the proper format. Data exchange between client and server side is implemented with JSON.



GitHub Link:

<https://github.com/EIS-Bonn/MA-INF3232-Lab-SS2015/tree/master/GroupE>

Testing

Syntax

Rdf
Translator
Tool

Semantic

Oops
(Ontology
Pitfall Scanner)

End-user Application

Test cases using
SPARQL queries

Virtual Machine Description



Hostname: **Windows15-MobiVoc**

Installed on: EIS02

Software installed: JDK 1.8, JavaSpring Framework, Apache Tomcat 8, Apache Cordova, Eclipse Luna

Local Access:

OS User: **eis-user**
Password: **E1sdb2015**



Remote Access:

Partner ID: **549 614 999**
Password: **E1sdb2015**