



Users documentation

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Authors:

Maciej Gawinecki
Paweł Kaczmarek

Project site:

<http://sourceforge.net/projects/e-travel>

Contact:

maciej.gawinecki@ibspan.waw.pl

Agent-based Travel Support System
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Setting up the system

The system was tested on a single machine with MS Windows XP and therefore it provides only batch files for running the system. Users of Linux and Unix systems are encouraged to prepare own shell scripts, similar to those in *bin/* directory.

Preparing environment

Runtime platform

| | |
|--|---|
| Runtime environment: | JRE 1.5 http://java.sun.com |
| Agent platform: | JADE 3.4 http://jade.tilab.com |
| Semantic framework: | JENA 2.4 http://jena.sourceforge.net |
| Access to OWL via JavaBeans | Jastor 1.0.3 http://jastor.sourceforge.net |
| RDF/XML to HTML (WML) Transformer: | Raccoon server (Rx4RDF 0.6.0) http://www.liminalzone.org/Raccoon |
| | Prerequisite: <ul style="list-style-type: none">• Python 2.3, http://www.python.org/• 4Suite XML library 1.0b3, http://4suite.org/• RDFLib, http://www.rdfliib.net/ |
| Relational Database for Persistent Model Storage: | PostgreSQL 8.0 http://www.postgresql.org/ |
| JDBC Connector: | JDBC 3 for Version 8.0 http://jdbc.postgresql.org/ |

Configuring access to database

1. Create a database account, which will be used for the system to authorize access to the database.
2. Create database (e.g. named *tss*), where the system will store persistent data models. Account created in step 1 must be granted all privileges to this database.
3. Configure access to the database in file: *etc/db-conn.properties*.
4. Configure path with JDBC driver in *bin/setenv.bat* file.

Configuring Raccoon server

1. Install Raccoon together with prerequisites.
2. Configure Python root path in *bin/setenv.bat* file.
3. Fix *\$PYTHONDIR/Lib/site-packages/rx/RxPathDom.py* file by putting the patch somewhere about line 1838, by changing the following instructions:

```
def invokeRxSLT(RDFPath, stylesheetPath):
```

```

#_4suiteModel, db = RxPath.deserializeRDF( RDFPath )
#model = RxPath.FtModel(_4suiteModel)

uri = RxPath.Uri.OsPathToUri(modelPath)
model = RxPath.MemModel(RxPath.parseRDFFromURI(uri))
rxPathDom = RxPath.createDOM(model)
stylesheetContents = file(stylesheetPath).read()
return RxPath.applyXslt(rxPathDom, stylesheetContents)

```

into these (note the line with the patch comment):

```

def invokeRxSLT(RDFPath, stylesheetPath):
#_4suiteModel, db = RxPath.deserializeRDF( RDFPath )
#model = RxPath.FtModel(_4suiteModel)

modelPath = RDFPath # PATCH

uri = RxPath.Uri.OsPathToUri(modelPath)
model = RxPath.MemModel(RxPath.parseRDFFromURI(uri))
rxPathDom = RxPath.createDOM(model)
stylesheetContents = file(stylesheetPath).read()
return RxPath.applyXslt(rxPathDom, stylesheetContents)

```

Configuring CLASSPATH

1. Adjust paths to root directory of Jena, JADE and Jastor directories in *bin/setenv.bat* file.

Launching the system

1. From *bin/* directory call *run-tss.bat* script.

```

tss> cd bin
tss\bin> run-tss

```

Two console windows should be opened: one with Raccoon server and the one system starting. Please be patient, since for the first time systems must load all necessary data into database. Especially loading database with restaurants is time consuming (about 3-4 hours).

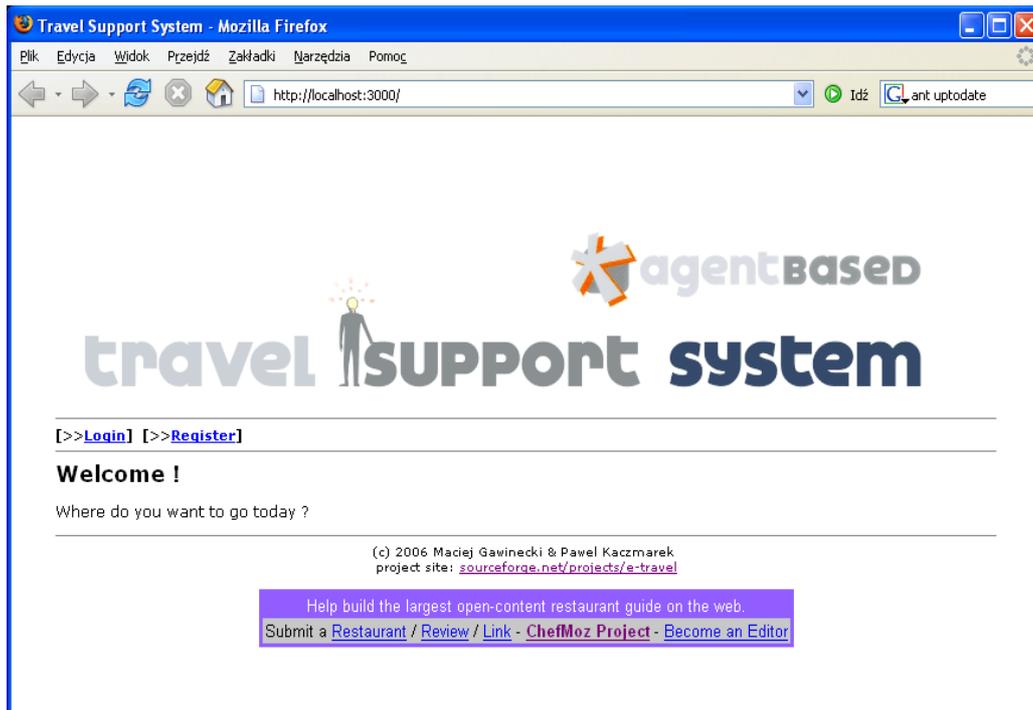
When the systems finished initializing without any problem, you will be informed by following information on the system console:

```

2006-08-27 06:25:21 ibspan.tss.agents.pra.http.MainServer <init>
INFO: HTTP Server for html-media listening on port 3000 ...
2006-08-27 06:25:21 ibspan.tss.agents.pra.http.MainServer <init>
INFO: HTTP Server for wml-media listening on port 3001 ...

```

2. When the systemsFrom *bin/* directory launch *browse-tss.url* file, which will open start page of the system in your favourite web browser:



3. Surf on!

Acknowledgements

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