GEOMAN: A SPEECHWEB APPLICATION ABOUT COUNTRIES

Application Category	

Developer Information

Name	Ali Karaki
Email or webpage (optional)	karabi@uwindsor.ca
Education level when created the application	1st year undergraduate student
Institution	University Of Windsor

Application Information

Application Name	Geoman
Date created	December 2007
Link to the application	http://cs.uwindsor.ca/~karabi/geoman/geoman.xml
Link to the code (optional)	http://cs.uwindsor.ca/~karabi/geoman/geoman.m
Link to the grammar (optional)	http://cs.uwindsor.ca/~karabi/geoman/geoman.jsgf
What is the application about?	Geoman can answer questions about the population, capital city, largest city, GDP, president, area, location, currency, language(s) and the constitutional form of many countries.
Why was the application created?	Geoman was created to demonstrate Q/A type of SpeechWeb applications by getting the information from a local database.
How was the application created?	Geoman was created by using the manual on how to create SpeechWeb applications available on the SpeechWeb developers' webpage.
What is the programming language used?	Miranda, A functional programming language
How does the application work?	Geoman accepts an input from the user; the input is in a question form. The application parses the question and extracts the keywords such as the name of the country and the required piece of information and then searches for the info in a database containing the information needed.
What is good about the application?	Geoman is a user friendly application that can accept a user's query about one topic in many different forms, it can also catch ambiguity and it is an informative application about countries containing useful information.
Problems faced while creating the application and solutions	Geoman can only accept questions about 26 countries to keep good recognition accuracy; the problem can be solved by dividing the application into many modules and adding more countries. A communication problem was also faced but solved by modifying the X+V page, the modification was to remove "luna" from all the links in the page.
How can other developers create a similar application?	Developers can create a similar application by looking up the code and learning the techniques used to parse the questions and returning the appropriate answers. Developers can also use the manuals on the SpeechWeb developers' webpage.
Other comments	The developers' webpage is at: http://cs.uwindsor.ca/~speechweb/developers.html Suggestions and questions can be forwarded to my email