

TIME: A SPEECHWEB APPLICATION THAT CAN TELL THE TIME AND THE TEMPERATURE

Application Category

Developer Information

Name	David Dufour
Email or webpage (optional)	dufour11@uwindsor.ca
Education level when created the application	1 st year undergraduate student
Institution	University Of Windsor

Application Information

Application Name	Time
Date created	June 2008
Link to the application	http://cs.uwindsor.ca/~dufour11/Time/Time.xml
Link to the code (optional)	http://cs.uwindsor.ca/~dufour11/Time/Time.m
Link to the grammar (optional)	http://cs.uwindsor.ca/~dufour11/Time/Time.jsgf
What is the application about?	The Time application can give the user the time and available temperatures for all the cities in Canada listed here .
Why was the application created?	This application was created to demonstrate calling to both a UNIX server (for the time) and a website (for the temperature) for dynamic information at different sources.
How was the application created?	Time was created by using the manual on how to create SpeechWeb applications available on the SpeechWeb developers' webpage. Other Miranda related documentation was used to determine how to call a UNIX server for information.
What is the programming language used?	Miranda, a functional programming language
How does the application work?	The application works by parsing the sentence to pick up the province and city, and then weather the question is about time or temperature. It then uses Miranda's 'system' command to gather that information.
What is good about the application?	The application is good because it has information not hardcoded into a database in the program. The information is both changing and useful and comes from steady sources.
Problems faced while creating the application and solutions	A problem faced when making the Time application is that certain paths needed to be added to access the date from the UNIX server. It was also found that parameters were not being calculated in the temperature program and thus the required html source files were not being generated. This was fixed by forcing calculation with a compare between the result and '("", "", 0)' in an if statement.
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