

Code Sample: Parse XML Menu and Write Items to Console

A little history

At Avinode, we have two teams of developers. In Portland, we use .Net, and in Gothenburg, they work in Java. As users navigate from page to page, they should not notice whether they're on a .Net page or a Java page. Therefore both teams need to be able to draw the exact same menu, so we use a shared XML document to define our menu structure.

The code sample

Attached are text files with XML menus for two of our applications. Using any framework classes you choose, write a C# console application that does all of the following:

- Accept two arguments: first, a path to a menu .xml file (e.g. "c:\schedaeromenu.xml"); second an active path to match (e.g. "/default.aspx")
- Parse the XML document, ignoring any XML content not required for this application
- Identify currently-active menu items — a menu item is active if it or one of its children has a path matching the second argument
- Write the parsed menu to the console
 1. Show display name and path structure for each menu item
 2. Indent submenu items
 3. Print the word "ACTIVE" next to any active menu items.

When we run your application from the command line, we should see something like this:

```
c:> MenuSample.exe "c:\schedAeroMenu.xml" "/Requests/OpenQuotes.aspx"
Home, /Default.aspx
Trips, /Requests/Quotes/CreateQuote.aspx ACTIVE
    Create Quote/Trip, /Requests/Quotes/CreateQuote.aspx
    Open Quotes, /Requests/OpenQuotes.aspx ACTIVE
    Scheduled Trips, /Requests/Trips/ScheduledTrips.aspx
Company, /mvc/company/view
    Customers, /customers/customers.aspx
    Pilots, /pilots/pilots.aspx
    Aircraft, /aircraft/Aircraft.aspx
```

Please supply a Visual Studio project and associated files containing your solution.