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Server Side Development

Module 9

Code Example Description

The small dynamic project attached to this submission is the one I referenced in the paper. I built it as a mock police system that searches for information connected to license plate numbers, and it works using XML. Basically, when someone searches a license plate, the system reads from an XML file that contains details about the registered vehicle, the owner, and any criminal records the owner might have, including an attribute for active warrants and another attribute for the vehicle being reported as stolen.

For the setup, I used JSTL tags in my JSP page so the XML could be read and shown properly. I used <x:parse> to turn the raw XML into something the system could understand. Then, I combined <x:out> with XPath to pull out the exact details I wanted to display. Some of the XPaths I utilized includes licensePlate/@number to get the license plate number and //record[offense='Speeding'] to pull only the speeding offenses. That way, the page only shows what matters (in my context).

In the end, the JSP page shows three things. First, it shows the license plate number that was searched. Second, it displays vehicle information if the vehicle was marked as stolen. And last, it lists any criminal records that have to do with speeding.

Image Below of the Code Example Executing Successfully

License Plate Searched: 2Fast2Furious

Owner Information

Name: John Doe

Vehicle Info (Displayed only if stolen)

- Make: Toyota
- Model: Corolla
- Year: 2006
- Color: Blue

Criminal Records - Speeding

Offense: Speeding
Date: 2023-06-15
Location: Springfield