

# A Design Pattern for Caching Frequently Used Data in XML

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# Module Goals



## **Read from SQL Server**

- Cache data into XML file

## **Always read from XML file**

- Unless data on server has changed

## **Detect changes**

- Between server and XML file



# Read and Store

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# Read From SQL Server

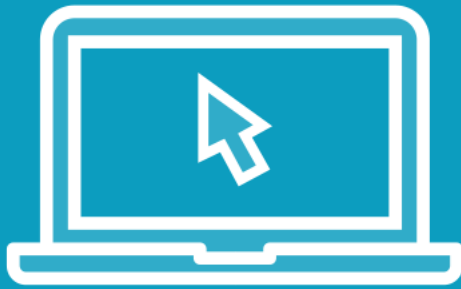
**Use Entity  
Framework to get  
data**

**Serialize EF  
collection**

**Write serialized  
data to XML file**



# Demo



Get data from SQL Server, store locally

Read data locally



# Detect Changes

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# Detect Changes

**Must have a "last  
modified date"  
field on your table**

**Check for larger  
date on server**

**Check for  
different number  
of rows**



# Demo



## Detect changes





# Summary



Cache frequently used data in XML

Quicker to read from local file

Detect changes

- Use a date field
- Different # of rows

# Course Summary



**XML is a nice data transport format**

- Easy to read and extend

**Use LINQ to XML**

- Use XPath if you have to

**Serialize .NET objects as XML**

**Cache data locally for performance**

# Sample Code

The sample code for this course may be found at  
<https://pdsa.com/pluralsight>



I hope you enjoyed  
this course!



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