Architecture and Integration Patterns, Modeling and Presentation

Due Dates:

- Presentations due in class Monday April 14. Send PowerPoint or PDF before class.

- Pattern write ups and presentation updates are due by 8pm Wed April 16.

Grade allocation: 30% for your presentation; 70% for your write up and models

1. Write a detailed architectural pattern document about your assigned design pattern.

    a. Use the format "Content of a Pattern" outlined in the TOGAF standard at
        http://pubs.opengroup.org/architecture/togaf9-doc/m/chap25.html as used in the
        Pattern Oriented Software Architecture (aka POSA) series of books. Some examples
        are at
          i.   http://posa3.org/ResourceAcquisition.pdf
          ii. http://www.opengroup.org/public/arch/p4/patterns/patterns.htm
          iii. http://msdn.microsoft.com/en-us/library/ee658117.aspx
    b. Develop models using the Archi modeling tool. Include them as appropriate in your
        pattern write up. Note that some patterns may require multiple viewpoints to
        elaborate key points. "Before" and "after" models may also be required to capture
        concepts, forces and their resolution.
    c. Search for other sources of information about your design pattern. Incorporate this
        additional detail in your pattern write up. Include at least 2 other sources. Cite your
        sources as appropriate. Do not plagiarize!
    d. Create a single Adobe PDF document with your pattern (including model graphics) as
        if you were going to publish it. Models can be exported as images (PNG format) from
        the Archi tool for use in your document.
    e. Turn in the PDF document and your Archi model file.

2. Present your design pattern in class and be prepared for questions.

    a. Prepare a 10 minute presentation. Explain the patterns purpose and provide at least
        one meaningful example of its use.
    b. Prepare and distribute handouts to the class prior to presenting. Use a 2 slide per page
        format.
    c. Include speaker notes for each slide with the key points you will speak to during the
        presentation. This should be on the material you turn in for grading. It should not be
        on the material you had out in class.
    d. Include a discussion of other sources of information and how they contributed to your
        understanding of the pattern.
    e. Discuss details you added beyond those given as part of the pattern outlined on the
        EIP site.
    f. Present your model(s). Discuss modeling challenges encountered when modeling
        your pattern using ArchiMate.
    g. Pay attention to our presentation rubrics! I will post these on the class website for
        reference.
    h. Turn in a PDF of your slides with speaker notes shown.