

High Performance XML/XSLT Transformation Server

Spring 2017 Midterm Progress Report

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CS 462 | CS Senior Capstone | Winter 2017

May 10, 2017

Abstract

An update on the development of the High Performance XML/XSLT Transformation Server named *XZES40 Transformer*.



Figure 1: Source: Wikimedia Commons [2]



Figure 2: Source: Apache Software Foundation [1]

1 PROJECT PURPOSE

The purpose of the XZES40 document transformer is to accept input XML and XML stylesheet documents, perform an XML transformation with those files, and rerun the resulting transformation.

The application also adds the following useful features:

- Provides a user with a web interface to request XML transformations via file upload.
- Caches processed documents, reducing overhead on subsequent transformations.
- Performs document transformations in parallel to service multiple users and requests simultaneously.

2 PROJECT STATUS

2.1 Zixun Lu

2.2 Shuai Peng

2.3 Elijah C. Voigt

3 REMAINING TASKS

3.1 Zixun Lu

3.2 Shuai Peng

3.3 Elijah C. Voigt

4 PROBLEMS ENCOUNTERED

4.1 Zixun Lu

4.2 Shuai Peng

4.3 Elijah C. Voigt

5 INTERESTING CODE

5.1 Zixun Lu

5.2 Shuai Peng

5.3 Elijah C. Voigt

6 RELEVANT MEDIA

REFERENCES

[1] *ASF Press Kit: Apache Software Foundation Logo*. URL: <https://www.apache.org/foundation/press/kit/>.

[2] *Wikimedia Commons: Oregon State University Logo*. URL: https://commons.wikimedia.org/wiki/File:Oregon_State_University_log