XZES40-Transformer

Zixun Lu (luzi), Shuai Peng (pengs), Elijah Voigt (voigte)

CS 463 — CS Senior Capstone — Group #40

Spring 2017

Program Purpose and Goals

Figure: Source: Wikimedia Commons [2]

Figure: Source: Apache Software Foundation [1]

Project Purpose

The purpose of the XZES40-Transformer is:

- Transform XML and XSLT documents into a new XML document.
- The XZES40-transformer can transform multiple documents in parallel.
- Processed style sheets are cached for quick recompilation.
- Accessible over the Internet via a website.
- Accepts custom per-transform parameters.

Project Status

The project status of the XZES40-Transformer is:

- We have finished our project.
- Prepare for the EXPO.

Remaining Tasks

- Everyone: Improving the documentation.
- (Maybe) add more tests to the code.
- Create an installation package.

Problems Encountered

We have following problem so far:

- ▸ Web interface was problematic; developed quickly with very little planning.
- ▸ Late development refactoring introduced small bugs.
- ▸ Imbalanced workload.

Demo

Features:

- ► Document transformation.
- ► Parallel transformation.
- ► Cached compilations.
- ► Web interface.

Reference

📄 *ASF Press Kit: Apache Software Foundation Logo*. URL:
https://www.apache.org/foundation/press/kit/.

📄 *Wikimedia Commons: Oregon State University Logo*. URL:
https://commons.wikimedia.org/wiki/File:Oregon_State_U