Implementation Specification

for

Key Word In Context

Version 2.0 Approved

Prepared by Lynn Barnett and Victoria Potvin

University of Central Oklahoma

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Table of Contents

[1. Introduction 3](#_Toc412668967)

[1.1 Overview 3](#_Toc412668968)

[1.2 Implementation Specifications 3](#_Toc412668969)

[2. Implementation Code 3](#_Toc412668970)

[2.1 Web Pages 3](#_Toc412668971)

[2.1.1 index.xhtml 3](#_Toc412668972)

[2.2 Package com.barnett.kwic 3](#_Toc412668973)

[2.2.1 Kwic.java 3](#_Toc412668974)

[2.3 Package pipeandfilter 3](#_Toc412668975)

[2.3.1 CircularShift.java 3](#_Toc412668976)

[2.3.2 Input.java 3](#_Toc412668977)

[2.3.3 Output.java 3](#_Toc412668978)

[2.3.4 Sort.java 3](#_Toc412668979)

[3. Testing Files 3](#_Toc412668980)

[3.1 CircularShiftTest.java 3](#_Toc412668981)

[3.2 InputTest.java 3](#_Toc412668982)

[3.3 OutputTest.java 3](#_Toc412668983)

[3.4 SortTest.java 3](#_Toc412668984)

# Introduction

## Overview

The Key Word In Context (KWIC\*) system takes a set of lines from user input and produces a new set of lines where the input has been circularly shifted and then the new set of lines alphabetically sorted. It is a web-based system in which the user has access to a single page where they can provide input and view output.

## Implementation Specifications

The system has been implemented utilizing a Shared Data and Object Oriented Architecture. This provides maintainability and reusability. The system has been implemented using Java Server Faces and a GlassFish Server. The project was tested using JUnit.

# Implementation Code

## Web Pages

### index.xhtml

## Package com.barnett.kwic

### Kwic.java

## Package pipeandfilter

### CircularShift.java

### Input.java

### Output.java

### Sort.java

# Testing Files

## CircularShiftTest.java

## InputTest.java

## OutputTest.java

## SortTest.java