Implementation Specification

for

Key Word In Context

Version 2.0 Approved

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# 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 Pipe and Filter 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