# KWIC\* Requirements Specification

# Introduction

## Purpose and Scope

This document outlines the requirements for a Key Word In Context system. The system takes a set of typed lines and produces a new set based on a set of algorithms. The new set will include lines which have been circularly shifted and ordered alphabetically. The purpose of this system is to prepare typed input to be used in a search engine, which will be developed at a later date.

The user interface will be simple to allow any user to utilize its functionality. The project will be web based so that it may be accessed from any computer with a standard web browser and an internet connection.

## Definitions and Abbreviations

* **KWIC\* –** From this point on we will refer to the system as KWIC\*.
* **Circular shift** – to circularly shift a line the first word will be removed and appended to the end of a line. This is done repeatedly and provides a set of lines as numerous as the number of words in a line.
* **Use Case** – a diagram and accompanying description which provides a model of how the system responds to a particular user interaction.

## References

**UML Resources –** <http://www.uml.org/>

## Overview

This document will cover all requirements specified for this software project. Section 2 will provide an overall description of the software, including basic software functions, a description of the type of person who will use this system, and known constraints. Section 3 will outline specific requirements associated with the product, including both functional and nonfunctional requirements.

# Overall Description

## Product Functions

The product performs all functions needed to produce the circularly shifted and alphabetized set of lines from the user input. The only function available to a user is to submit input, thereby getting a set of lines. This will be referred to as the use case “Get Lines.”

## User Classes and Characteristics

Realistically any user without visual impairment and with a computer with a standard web browser and internet connection can use the system. It is likely to only be used by users for development of a search engine or educational purposes at the University of Central Oklahoma.

## Assumptions and Dependencies

The program will be running on a web server. Since it is web based, the project is dependent on the user having an internet connection and a standard web browser.

# Specific Requirements