ID-ITS

IRCI Researcher Graph
Software Requirements Specification
For <Subsystem or Feature>

Version <2.0>

Revision History

Date	Version	Description	Author
04 Sept 2017	1.0	Initiation	Daniel Siahaan
01 Sept 2019	2.0	Change one main use case Change detail of Search Researcher	Daniel Siahaan

Table of Contents

Software Requirements Specification

1. Introduction

This section provide an overview of the entire document. It includes decription about the purpose, scope, definitions, acronyms, abbreviations, references and overview of the document.

1.1 Purpose

The purpose of this document is to describe the basic needs of end users that the system should provide and attributes, properties, constraints, and qualities that the system should meet in order the system to achieve the goal of the system, i.e. to enable software engineer to analyze the dependency between requirements given the artifacts and deliverables of the project.
The document also describes the external behavior of the application or subsystem identified. It also describes nonfunctional requirements, design constraints and other factors necessary to provide a complete and comprehensive description of the requirements for the software.

1.2 Scope

The software application should allow Submitter, to submit metadata of article into the software. This metadata will be processed in inserted into the article population. This article population is the basis for generating and updating a researcher graph. The researcher graph represents the evolution of research community annually. The software application should also allow Policy Maker to graphically view the graph for the purpose of further analysis.

1.3 Definitions, Acronyms and Abbreviations

n.a.

1.4 References

UCSpec-02	Use Case Specification Document of ‘Insert Metadata’
UCSpec-02	Use Case Specification Document of ‘Search Researcher’

1.5 Overview

The rest of the document is organized as follows. The second section explain the overall description of the system to be implemented, i.e. the scenario and the context diagram of the system. The last section describes the list of all functional and non-functional requirements.

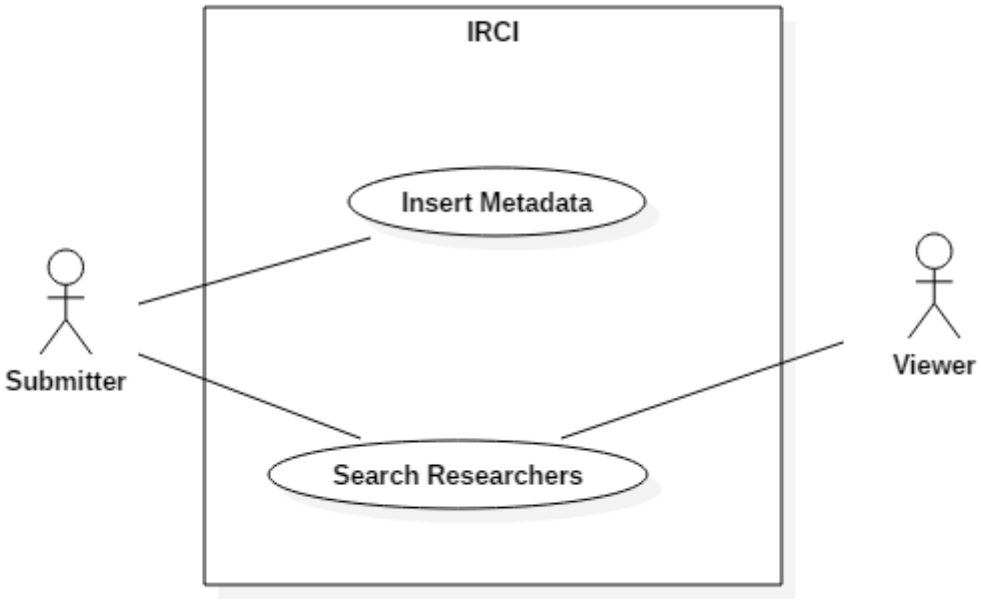
2. Overall Description

2.1 Scenario

Ben is a submitter who is working at Ministry of Research, Technology, and Higher Education. He is responsible for entering metadata of articles from a scientific journal issues. He collects the metadata in the form of xml data that complies with Dublic Core (DC) Metadata. Today, he has twenty xml files to be inserted. He login to the system and click on the menu to open a data entry form. He inserts each metadata to the system. The system immediately response with a successful message. After assuring no problem with the first metadata file, he inserted the rest of the files

On the other side, Rivo wants to find top researchers on fuzzy k-means. He opens the system, enter the keyword ‘fuzzy k-means’ to search the top researchers. After being presented with a number of relevant articles, he views the most cited articles and explores the information on the article in more detail.

2.2 Context Diagram



ID	UC Name	UC Description
UC01	Insert Metadata	Submitter can insert metadata of article(s) into the system.
UC02	Search Researchers	Submitter or Viewer can search researchers based on certain keyword.

3. Specific Requirements

This section contains all the software requirements to a level of detail sufficient to enable designers to design a system to satisfy those requirements, and testers to test that the system satisfies those requirements.

3.1 Functionality

ID	Statement	UC	Priority
F01	Submitter can insert metadata of article.	UC01	Must
F02	Submitter or Viewer can search researchers which are relevant to a keyword	UC02	Must
F03	Submitter or Viewer can sort the researchers starts from the highest scores	UC02	Must
F04	Submitter or Viewer can sort the article starts from the relevancy	UC02	Must

F05	Submitter or Viewer can view the detail of a researcher profile	UC02	Must
F06	Submitter can remove an article from his/her profile	UC02	Must
F07	Submitter can edit his/her profile	UC02	Must
F08	The system can show a progress bar.	UC01, UC02	Must

3.2 Non-Functionality

ID	Statement	Quality	UC	Priority
NF01	Only authorized and authenticated submitter may remove an article from his/her profile.	Security		Must
NF02	Only authorized and authenticated submitter may insert metadata into his/her profile.	Security		
NF03	The metadata should contain at least the following information: article title, keywords, abstract, references, and year of publication	Operability		Must
NF04	Only authorized and authenticated submitter may edit his/her profile	Security		Must
NF05	The system shall be deployed as a desktop application.	Portability		Must

4. Supporting Information

[The supporting information makes the SRS easier to use. It includes: a) Table of contents, b) Index, c) Appendices. These may include use-case storyboards or user-interface prototypes. When appendices are included, the SRS should explicitly state whether or not the appendices are to be considered part of the requirements.]