
Software Requirement Specification (SRS)

Project Name Theshive: DMS Mini Thesis Library

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Version Version 3

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Revision History

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Reviewer	Version Reviewed	Signature	Date
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Table of Contents



1

INTRODUCTION

- 1.1 Product scope
- 1.2 Product value
- 1.3 Intended audience
- 1.4 Intended use
- 1.5 General description

2

FUNCTIONAL REQUIREMENTS

3

EXTERNAL INTERFACE REQUIREMENTS

- 3.1 User interface requirements
- 3.2 Hardware interface requirements
- 3.3 Software interface requirements

4

NON-FUNCTIONAL REQUIREMENTS

- 4.1 Security
- 4.2 Capacity
- 4.3 Compatibility
- 4.4 Reliability
- 4.5 Scalability
- 4.6 Maintainability
- 4.7 Usability

5

DEFINITIONS AND ACRONYMS



1 Introduction

This document contains information on the application's requirement specification. This is to provide a general introduction and overview of the general functionality of the application. This is to introduce important concepts such as the application's general description, functional requirements, external interface requirements, non-functional requirements, definitions, and acronyms. Moreover, it gives ideas on what to visualize and expect on the application's set of functions.

1.1 Product scope

The application allows users to locate specific mathematics and statistics theses as a mini-search engine without physically engaging in a library search. The goal is for the app to help students in simplifying the process of searching specific theses quickly.

1.2 Product value

In the field of research, the rise of a new study is made possible through an interface of a variety of related studies, thus the need for references on related literature/studies. In the process of searching, engaging oneself physically in searching related studies in the library takes time and may cause inconvenience to others especially when unsure of what specific information of the study is to be searched, it might as well when surfing the World Wide Web as it offers a wider array of choices internationally-based. The application's utility is in value to the user's time and convenience. It helps the user to search on specific Mathematics and Statistics theses work quickly providing a list of results, with the user's accessibility anytime and anywhere the user wants.

1.3 Intended audience

The application is intended to help MSU-IIT users (including different colleges) who seek to search for references or specific Mathematics and Statistics theses works. The application is exclusive only to users within MSU-IIT and shall be accessed locally.

1.4 Intended use

The application as a mini-search engine helps the user in search for specific theses works, then provides right after the list of related Mathematics and Statistics theses works.

1.5 General description

The Theshive: DMS Mini Thesis Library is an application that allows users to input a free keyword in search for related or specific Mathematics and Statistics theses works. The application then provides a list of these theses references ranked in accordance with the frequency of the searched keyword. The application output will be the list of these theses in the form of a “document-keyword matrix”, wherein the rows are the lists of the theses (documents), while the column shows the count on how frequently the keyword appeared in the thesis title, and abstract. The application also provides contact information on whom to reach out in accessing the specific thesis the user wants to view/access.

The screenshot shows a web interface for a thesis search application. At the top, it displays "2 search results for 'the'". Below this is a search bar with the text "Search by keywords" and a "Go" button. To the right of the search bar are buttons for "Home" and "Login". Below the search bar is a table with the following data:

Count	Title	Author	Publication Year	Program	Degree
29	Electronic theses and dissertations (ETD) as unique open access materials: case of the Kenya Information Preservation Society (KIPS)	Ratanya, Felicitas	2022	Stat	BS
17	Indigenous Goby Population in Mandulog River System and its Conservation by Communities in Iligan City, Philippines	Vedra, Sonnie Ocampo, Pablo de Lara, Ayolani	2015	Stat	BS

Below the table, there is a button labeled "Download Results". To the right of the table, there is a section titled "Abstract" with the following text:

Purpose
The purpose of this paper is to give an overview of electronic theses and dissertations (ETD) as important and unique collections that facilitate open access.

Design/methodology/approach
The paper presents a brief introduction of the importance of ETD as materials for open access. This is with emphasis on the Kenya Information Preservation Society (KIPS) project which has, since 1993, been digitizing theses from a number of participating institutions across the country. This paper relies heavily on literature derived from existing documentation, online searches and website exploration, and the KIPS's union list of theses and dissertations CD-ROM. A number of contracted employees (scanning and input) were also interviewed in order to provide statistics about the contributing institutions. Findings – The paper finds that the necessity of showcasing the intellectual research of higher education institutions within Kenya is reason enough to justify making the move towards creating electronic thesis services. The benefits making ETD available outweighs that of print-only thesis provision due to the potential for enormous dissemination and open access. Research limitations/implications – ETD is a renowned research area for consideration.

At the bottom of the page, there is a button labeled "Authorized Personnel Contact Information".

2 Functional Requirements

List the design requirements, graphic requirements, operating system requirements, and constraints of the product.

2.1 Design Requirements

REQ001. The app shall allow users to perform a search operation using keyword/s provided by the user.

REQ002. The app will load search results in less than 5 seconds.

REQ003. The system shall rank the search results of the DMS thesis according to the most number of keyword/s in the title and abstract. In the event where the user enters a phrase/multiple words (two words or more), the system will treat the phrase as one keyword, take for instance the user enters “independent and identically distributed”, the system will only display a result if the specific phrase “independent and identically distributed” exists in the thesis’ title and abstract .

REQ004. The app shall allow users to click on a specific thesis and view the thesis details (keyword count, title, author, publication year, program, degree) and abstract.

REQ005. The download operation of the app shall allow users to download the list of thesis results (thesis details, except the abstract) in the form of a spreadsheet.

REQ006. The system shall be able to categorize the type of thesis educational degree level (Bachelor’s degree, Master’s degree, and Doctorate degree).

REQ007. The app shall be able to show the program classification (Mathematics or Statistics) of the thesis.

REQ008. The system shall display the title and author of the thesis.

REQ009. The columns will also show the count of how frequently the keyword appeared in the thesis.

REQ010. The system shall allow the manager of the application to perform Create, Read, Update, Delete (CRUD) operations for the DMS theses at the backend where the database is.

2.2 Graphics Requirements

REQ011. The application will make use of a Graphical User Interface (GUI).

REQ012. The app shall have a search bar allowing users to input the keyword/s they want to search.

REQ013. The app shall have a display page for the results of searches.

REQ014. The system will incorporate another window interface for the manager where he can perform CRUD operations.

2.3 Operating System Requirements

REQ015. The software will require Windows 10.

REQ016. The app will not require an internet connection.

REQ017. The app will not require external devices (i.e. printer, scanner).

REQ018. The hard drive space shall be at least 20 GB to cater the installation of the server and its operation.

REQ019. Available free disk space of 10 GB shall also be a concern to note.

REQ020. The app will also require a suitable processor for it to run, such as core i3 with 64-bit operating system, and x64-based processor.

REQ021. It shall also require a sufficient amount of memory (RAM) with estimates running from 4 to 6 GB of RAM.

2.4 Constraints

REQ022. The system shall enforce a prohibition on downloading any electronic copies of the thesis paper's abstract. Users shall only have access in viewing the abstract.

REQ023. The app might not run if the minimum operating system requirements are not sufficient, such as Windows 10, core i3 with 64-bit operating system, x64-based processor, and 4 to 6 GB of RAM.

3 External Interface Requirements

3.1 User Interface Requirements	Describe the logic behind the interactions between the users and the software (screen layouts, style guides, etc.)
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3.1.1. Search Thesis Record

REQ024. The system shall display a list of theses (which are sorted according to the frequency of the searched keyword) including the title, the author, the program classification (Mathematics/ Statistics), and education degree level classification (Bachelor's degree/Master's degree/ Doctorate degree).

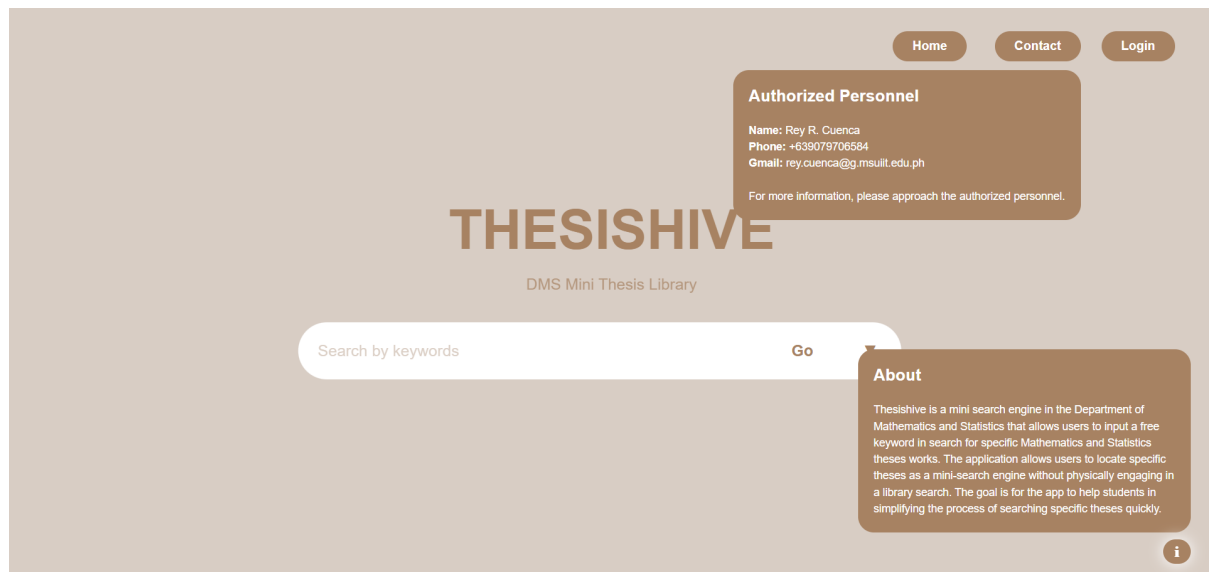
REQ025. The system shall have an interface that will allow the user to input the information that they want to search, which is the keyword/s.

REQ026. The system shall allow the user to choose whichever from the lists of results they want to view (abstract).

3.1.2. Screen Layout

REQ027. Display the name of the application: "Thesishive: DMS Mini Thesis Library".

REQ028. Provide contact information for authorized personnel responsible for managing the 'DMS Thesis Library.'



3.1.3. Style Guide

REQ029. Maintain a font size not less than 12 points throughout the application for readability.

REQ030. Shades of brown shall be the color scheme of the interface.

3.1.4. System Administrator

REQ031. The on-site System Administrator shall be the only user who can access and perform CRUD operations in the backend of the system.

REQ032. The system shall provide input fields for the System Administrator to enter or edit or remove such as the thesis title, author's name, publication year, educational degree level (Bachelor's degree/Master's degree/Doctorate degree) of the thesis, thesis' program (Mathematics/Statistics), and the abstract.

REQ033. The system shall display clear error messages if there are issues with the data provided by the System Administrator.

Mini Thesis Library

Title	Author	Publication Year	Program	Degree
Electronic theses and dissertations (ETD) as unique open access materials: case of the Kenya Information Preservation Society (KIPS)	Ratanya, Felicitas	2022	Stat	BS
Indigenous Goby Population in Mandulog River System and its Conservation by Communities in Iligan City, Philippines	Vedra, Sonnie Ocampo, Pablo de Lara, Ayolani	2015	Stat	BS

No. of pages 1

1

Welcome back
ReyCuenca.

Total Thesis: 2

Total Author: 4

Total Degree: 3

Total Program: 2

Total Admin: 16

3.1 Hardware Interface Requirements

List the supported devices the software is intended to run on, the network requirements, and the communication protocols to be used.

3.2.1 Supported Device

REQ034. The software should also meet the operating system requirements to ensure Key Performance Indicators (KPIs) are satisfied.

3.2.2 Network Requirements

REQ035. The thesis library operates in offline mode, meaning it does not rely on an internet connection for core functionalities.

3.3 Software Interface Requirements

Include the connections between your product and other software components, including frontend/backend framework, libraries, etc.

REQ036. Employ SQL as the database management tool for thesis data storage and retrieval.

3.4 Communication Interface Requirements

List any requirements for the communication programs your product will use, like emails or embedded forms.

4 Non-functional Requirements

4.1 Security

Include any privacy and data protection regulations that should be adhered to.

REQ037. The system shall have limited access to the application, only users within the MSU-IIT network.

REQ038. The system shall clearly define data ownership and establish document retention and deletion policies to manage the data lifecycle.

REQ039. The system does not allow downloads of the thesis' abstract to avoid copyright infringement; users must request permission to view the whole thesis from the admin.

4.2 Capacity

Describe the current and future storage needs of your software.

REQ040. The system shall be able to handle a large number of thesis documents, with a minimum capacity of 1,000 documents.

REQ041. Each document can vary in size but should be able to accommodate at least 1 MB of data per document.

REQ042. The system should support the efficient indexing of all thesis titles and abstracts.

4.3 Compatibility

List the minimum hardware requirements for your software.

REQ043. The system shall be compatible with common relational database management systems (RDBMS) such as SQL.

REQ044. The system should work seamlessly on different operating systems, such as Windows.

REQ045. The search engine shall be compatible with standard web browsers such as Google Chrome.

4.4 Reliability

Calculate what the critical failure time of your product would be under normal usage.

REQ046. The system shall calculate and ensure that its response time remains within a five-second threshold under normal usage, as specified by the client's KPIs.

REQ047. The system shall undergo rigorous testing to rectify glitches and ensure the application's reliability.

REQ048. The system shall ensure that all interface buttons work correctly and do not overlap in functionality.

REQ049. The system shall have regular scheduled system maintenance to ensure continued reliability.

4.5 Scalability

Calculate the highest workloads under which your software will still perform as expected.

REQ050. The system shall adapt its speed based on data volume for optimal performance.

REQ051. The system shall be optimized for tasks such as downloading 20 thesis lists within 5 seconds.

4.6 Maintainability

Describe how continuous integration should be used to deploy features and bug fixes quickly.

REQ052: The system shall leverage Git in conjunction with a Continuous Integration (CI) tool to maintain application stability, allowing for the rapid deployment of new features and bug fixes.

REQ053: The system shall use Git integrated with a CI tool to facilitate frequent code integration and conduct rigorous testing, enabling swift error identification and precise tracking of their sources.

REQ054: The combined use of Git with a CI tool shall function as a safety net, ensuring code stability and functionality while allowing early detection of integration issues.

4.7 Usability.

Describe how easy it should be for end-users to use your software.

REQ055. The system shall provide an area or space for specific result information.

4.8 Others

List any additional non-functional requirements.

5 Definitions and Acronyms

KPI	Key Performance Indicators
Efficient	It is said to be efficient if it conforms to the standards provided by the KPI of the client.
RAM	Random Access Memory (RAM) is where data is temporarily stored and accessed while the system is running.

Interview Notes Approved by: Rey R. Cuenca

Person Interviewed: Rey R. Cuenca, Instructor

Interviewers:

**Charlene Garridos
Ken Andrea Bahian
Stena Luz Arado**

**Lavina Grace Alingas
Jolia Keziah Balcita
Kyla Ayop**

Purpose of Interview:

- ❖ Recognize any difficulties or problems in their field that they need help with.
- ❖ Determine information requirements for the system.

- ❖ Gain a deeper understanding of the proposed project, its objectives, scope, and outcome.

Summary of Interview:

- ❖ The creation of the system resulted from the demand for simple access to the theses of the Department of Mathematics and Statistics, allowing for speedy retrieval and identification.
- ❖ The mini library system incorporates statistics with the algorithm to be employed.
- ❖ The primary search criteria include keywords from the thesis abstract and title. Additionally, there is a dropdown menu for specifying the degree type, distinguishing between undergraduate, master's, and Ph.D. theses for Mathematics and Statistics programs.

Open Items:

- ❖ Gather records and essential information for every available thesis (abstract) from the Department of Mathematics and Statistics.

Detailed Notes:

1. The application is designed to create a dedicated digital mini library for theses belonging to Department of Mathematics and Statistics students. Its primary goal is to simplify the process for users to locate specific theses quickly. Additionally, it provides users with information about where to access particular theses, offering valuable insights and guidance.
2. The ideal user experience for this application involves it being user-friendly, efficient, and accessible to individuals within the MSU-IIT network. All buttons should work properly, there should be no unnecessary repetition, and different functions must not overlap.
3. As a mini-search engine of Statistics and Mathematics theses relating to that of an OPAC, the key feature and functionalities that are expected to be present is that it will allow the user to search keywords related to thesis work. This allows users to conveniently access possible related thesis work through a free keyword search. After entering the free search keyword, the app then shows the user the list of thesis references (documents) ranked according to how frequently the word appears on that thesis' abstract as its text basis. The application output will be the list of documents in the form of a "document-term matrix", wherein the rows are the list of documents/theses, while the column shows keywords present in the thesis' title and abstract, and

how frequent it appears in it. The font size to be used shall also be considered.

4. As this application is centered on accessing thesis works that should adhere to such ethical considerations such as the intellectual property of the work's author, a subject to copyright, the app considers a non-negotiable feature or function. Even though the user can search the thesis' details through the free search keyword, the application does not allow the user to view the pdf file of the thesis itself, but in such a way that the user may have an idea of what thesis he/she must ask for permission to view. The goal of this functionality is for the pdf to not be downloadable to the users to avoid such issues as copyright infringement; hence the user must ask permission from the person in charge in the department first for the thesis that he would like to view. For data security and privacy, this application can't be remotely accessed, it is exclusive and within use only for MSU-IIT users.
5. The application must adhere to the client's Key Performance Indicators (KPI). It must be efficient, and quick as possible. The application must not exceed a running time of 5 seconds - the lesser running time, the better.
6. The app is exclusive only to users within MSU-IIT. It shall be accessed locally, internet-based but local.
7. The application will adopt a similar style to OPAC but will focus exclusively on showcasing the theses authored by DMS students, encompassing individuals pursuing Bachelor of Science, Master's, or Ph.D. degrees.
8. The expected data security standards for this application include ensuring it is accessible to individuals within the MSU-IIT network. The design should prevent users from tampering with any information. However, data extraction should be publicly accessible.
9. A web-based system that functions entirely within the MSU-IIT network. The application shall be of a local network. It does not establish external connections and remains inaccessible from remote locations outside the MSU-IIT network.
10. The client expresses a lack of familiarity with both Agile and Waterfall development methodologies, particularly in terms of their associated advantages and disadvantages. The client will go along with an

approach that offers a quicker completion timeline and greater flexibility for editing.

11. The application will be measured through an array of key performance indicators (KPIs) such as efficiency assessments, swift responsiveness, meticulous glitch detection, and examination of all interface buttons for proper functionality. There must be no redundant functionalities. The font size must be taken into consideration and the stringent requirement that application loading times remain within a five-second threshold.

Functional Requirements

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ001		
Requirement Description: The app shall allow users to perform a search operation using keyword/s provided by the user.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes

4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review	
Project Name: DMS Thesis Mini Search Engine	
Requirement ID: REQ002	
Requirement Description: The app will load search results in less than 5 seconds.	
Questions	Yes/No

1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review	
Project Name: DMS Thesis Mini Search Engine	

Requirement ID: REQ003		
Requirement Description: The system shall rank the search results of the DMS thesis according to the most number of keyword/s in its abstract. In the event where the user enters a multi-word phrase (two words or more), take for instance the user enters “data science”, the system will first rank and display the thesis with the most number of the keyword data science, then ranks and display thesis with the most number of the separate keywords ‘data’ and ‘science’ depending to its word count.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes

15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ004		
Requirement Description: The app shall allow users to click on a specific thesis and view its abstract.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to	Yes

	follow its life through all frames of the project?	
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ005		
Requirement Description: The download operation of the app shall allow users to download the list of thesis results in the form of a spreadsheet.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault	Yes

	tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ006		
Requirement Description: The system shall be able to categorize the type of thesis (Bachelor's degree, Master's degree, and Doctorate degree).		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes

3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review
Project Name: DMS Thesis Mini Search Engine
Requirement ID: REQ007
Requirement Description: The app will be able to show the subject classification

(Mathematics or Statistics) of the thesis.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ008		
Requirement Description: The system shall display the title and author of the thesis.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the	Yes

	requirement should be met?	
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ009		
Requirement Description: The columns will also show the count of how frequently the keyword appeared in the thesis.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the	Yes

	essential physical characteristic, only the essential quality and nothing beyond the essential?	
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ010		
Requirement Description: The system shall allow the manager of the application to perform Create, Read, Update, Delete (CRUD) operations for the DMS theses at the backend where the database is.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum	Yes

	without precise quantification?	
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ011		
Requirement Description: The application will make use of a Graphical User Interface (GUI).		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes

4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review
Project Name: DMS Thesis Mini Search Engine
Requirement ID: REQ012
Requirement Description: The app shall have a search bar allowing users to input the keyword they want to search.

Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review

Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ013		
Requirement Description: The app shall have a display page for the results of searches.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes

16	Is the requirement traceable?	Yes
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Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ014		
Requirement Description: The system will incorporate another window interface for the manager where he can perform CRUD operations.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes

14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ015		
Requirement Description: The software will require Windows 10.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to	Yes

	follow its life through all frames of the project?	
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ016		
Requirement Description: The app will not require an internet connection.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum	Yes

	without precise quantification?	
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ017		
Requirement Description: The app will not require external devices (i.e. printer, scanner).		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes

5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ018		
Requirement Description: The hard drive space shall be at least 20 GB to cater the installation of the app and its operation.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes

2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review	
Project Name: DMS Thesis Mini Search Engine	
Requirement ID: REQ019	
Requirement Description: Available free disk space of 10 GB shall also be a concern to note.	

Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review

Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ020		
Requirement Description: The app will also require a suitable processor for it to run, such as core i3 with 64-bit operating system, and x64-based processor.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes

16	Is the requirement traceable?	Yes
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Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ021		
Requirement Description: It shall also require a sufficient amount of memory (RAM) with estimates running from 4 to 6 GB of RAM.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes

14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ022		
Requirement Description: The system shall enforce a prohibition on downloading any electronic copies of the thesis paper, including the abstract, and users shall only have access to view the abstract.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis,	Yes

	demonstration or test?	
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ023		
Requirement Description: The app might not run if the minimum operating system requirements are not sufficient, such as Windows 10, core i3 with 64-bit operating system, x64-based processor, and 4 to 6 GB of RAM.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes

9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

External Interface Requirements

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ024		
Requirement Description: The system shall display a list of theses (which are sorted according to the frequency of the searched keyword) including the title, the author, the subject classification (Mathematics/ Statistics), and education level classification (Bachelor’s degree/Master’s degree/ Doctorate degree).		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes

4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review
Project Name: DMS Thesis Mini Search Engine
Requirement ID: REQ025
Requirement Description: The system shall have an interface that will allow the user to input the information that they want to search, which is the keyword.

Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review

Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ026		
Requirement Description: The system shall allow the user to choose whichever from the lists of results they want to view (abstract).		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes

16	Is the requirement traceable?	Yes
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Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ027		
Requirement Description: Display the name of the application: "Department of Mathematics and Statistics Mini Thesis Library".		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes

14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ028		
Requirement Description: Provide contact information for authorized personnel responsible for managing the 'DMS Thesis Library.'		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes

12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ029		
Requirement Description: Maintain a consistent font size of 11.5 points throughout the application for readability.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall”	Yes

	and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ030		
Requirement Description: Shades of blue shall be the color scheme of the interface.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended	Yes

	descriptive or numeric value?	
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ0031		
Requirement Description: The on-site System Administrator shall be the only user who can access and perform CRUD operations in the backend of the system.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes

6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ032		
Requirement Description: The system shall provide input fields for the System Administrator to enter or edit or remove such as the Author's name, educational level classification (Bachelor's degree/Master's degree/Doctorate degree) of the thesis, thesis' subject classification (Mathematics/Statistics), date of publication and the abstract.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes

3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review	
Project Name: DMS Thesis Mini Search Engine	
Requirement ID: REQ033	
Requirement Description: The system shall display clear error messages if there are issues with the data provided by the System Administrator.	

Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review

Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ034		
Requirement Description: The software should also meet the operating system requirements to ensure Key Performance Indicators (KPIs) are satisfied.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes

16	Is the requirement traceable?	Yes
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Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ035		
Requirement Description: The thesis library operates in offline mode, meaning it does not rely on an internet connection for core functionalities.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes

14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ036		
Requirement Description: Employ SQL Buddy as the database management tool for thesis data storage and retrieval.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes

12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Non-functional Requirements

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID:REQ037		
Requirement Description: The system shall have limited access to the application, only users within the MSU-IIT network.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended	Yes

	descriptive or numeric value?	
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ038		
Requirement Description: The system shall clearly define data ownership and establish document retention and deletion policies to manage the data lifecycle.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other	Yes

	requirements?	
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ039		
Requirement Description: The system does not allow downloads of the thesis’ abstract to avoid copyright infringement; users must request permission to view the whole thesis from the admin.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes

2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review
Project Name: DMS Thesis Mini Search Engine
Requirement ID: REQ040

Requirement Description: The system shall be able to handle a large number of thesis documents, with a minimum capacity of 10,000 documents.

Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ041		
Requirement Description: Each document can vary in size but should be able to accommodate at least 1 MB of data per document.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what	Yes

	must be done?	
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ042		
Requirement Description: The system should support the efficient indexing of all thesis titles and abstracts.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes

12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ043		
Requirement Description: The system shall be compatible with common relational database management systems (RDBMS) such as SQL Buddy.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes

10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ044		
Requirement Description: The system should work seamlessly on different operating systems, such as Windows.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes

7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ045		
Requirement Description: The search engine shall be compatible with standard web browsers such as Google Chrome.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative	Yes

	impact on other requirements and systems?	
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review	
Project Name: DMS Thesis Mini Search Engine	
Requirement ID: REQ046	
Requirement Description: The system shall calculate and ensure that its response time remains within a five-second threshold under normal usage, as specified by the client's KPIs.	
Questions	Yes/No

1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review

Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ047		
Requirement Description: The system shall undergo rigorous testing to rectify glitches and ensure the application's reliability.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes

16	Is the requirement traceable?	Yes
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Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ048		
Requirement Description: The system shall ensure that all interface buttons work correctly and do not overlap in functionality.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing	Yes

	beyond the essential?	
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ049		
Requirement Description: The system shall have regular scheduled system maintenance to ensure continued reliability.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes

11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ050		
Requirement Description: The system shall adapt its speed based on data volume for optimal performance.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes

9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ051		
Requirement Description: The system shall be optimized for tasks such as downloading 20 thesis abstracts within 5 seconds.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes

6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ052		
Requirement Description: The system shall leverage Git in conjunction with a Continuous Integration (CI) tool to maintain application stability, allowing for the rapid deployment of new features and bug fixes.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes

2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review
Project Name: DMS Thesis Mini Search Engine
Requirement ID: REQ053

Requirement Description: The system shall use Git integrated with a CI tool to facilitate frequent code integration and conduct rigorous testing, enabling swift error identification and precise tracking of their sources.

Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ054		
Requirement Description: The combined use of Git with a CI tool shall function as a safety net, ensuring code stability and functionality while allowing early detection of integration issues.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes
11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing	Yes

	beyond the essential?	
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes

Requirement Review		
Project Name: DMS Thesis Mini Search Engine		
Requirement ID: REQ055		
Requirement Description: The system shall provide an area or space for specific result information.		
Questions		Yes/No
1	Is the requirement detailed enough and adequate to develop an estimate and clear enough so the business knows what will be delivered?	Yes
2	Is the stated requirement technically achievable?	Yes
3	Is the stated requirement complete, with no further clarification required?	Yes
4	Has it been verified that the stated requirement does not have a negative impact on other requirements and systems?	Yes
5	Is it stated that the requirement is unique in that it does not duplicate other requirements?	Yes
6	Is the stated terminology used for the same elements as in all other requirements?	Yes
7	Does the stated requirement have one and only one interpretation?	Yes
8	Is the language clear enough to leave no doubt about the intended descriptive or numeric value?	Yes
9	Does the stated requirement use commonly used nontechnical terminology and avoid technical terminology?	Yes
10	Does the stated requirement use standard words or phrases such as “shall” and “will” and avoid ambiguous words like user friendly, flexible, fault tolerant, state-of-the-art, simple, efficient, easy and minimum/maximum without precise quantification?	Yes

11	Can the stated requirement be verified by inspection, analysis, demonstration or test?	Yes
12	Has the stated requirement been assigned to a unique identifier in order to follow its life through all frames of the project?	Yes
13	Does the stated requirement have only the essential capability, only the essential physical characteristic, only the essential quality and nothing beyond the essential?	Yes
14	Is the stated requirement clear, easy to understand and states only what must be done?	Yes
15	Does the stated requirement document WHAT is required, not HOW the requirement should be met?	Yes
16	Is the requirement traceable?	Yes