

Software Requirements Specification

Version 1.0

May 18, 2021

Searchify Website

Eehab Arbash
Mayyas Nakhli
Nermin Ibrahim
Suher Edrees

Table of Contents

Table of Contents	i
List of Figures	ii
1.0. Introduction.....	1
1.1. Purpose	1
1.2. Scope of Project.....	1
1.3. Glossary	2
1.4. References	2
1.5. Overview of Document.....	2
2.0. Overall Description	4
2.1 System Environment.....	4
2.2 Functional Requirements Specification	5
2.2.1 User Use Case.....	5
Use case: Post A Search.....	5
2.2.2 Admin Use Case	6
Use case: Review a Search	6
2.3 User Characteristics	6
2.4 Non-Functional Requirements	7
3.0. Requirements Specification.....	8
3.1 External Interface Requirements.....	8
3.2 Functional Requirements.....	8
3.2.1 Post a Search.....	8
3.2.2 Review a Search	9
3.3 Detailed Non-Functional Requirements	10
3.3.1 Logical Structure of the Data	10
3.3.2 Security	11

List of Figures

Figure 1 - System Environment	4
Figure 2 - Logical Structure of the ArticleManager Data.....	10

1.0. Introduction

1.1. Purpose

The purpose of this document is to present a detailed description of the Searchify` Website. It will explain the purpose and features of this website, the interfaces of the website, what the website will do, the constraints under which it must operate and how the website will react to external stimuli. This document is intended for both the stakeholders and the developers of the website.

1.2. Scope of Project

This website will be a national social media site. This system will be designed to maximize users search for services and products by providing a platform where they can specify their search and look for available opportunities, which would otherwise have to be performed manually. By maximizing the user's search, the website will meet the user's needs while remaining easy to understand and use.

More specifically, this website is designed to allow a user to post and communicate with other users to search for the best quality products or services the user looking for. The website takes advantage of the shared knowledge between the users, to give the best available results to the users search. The system also contains a relational database containing a list of Users, Posts, and Comments.

1.3. Glossary

Term	Definition
Active Search	A post where the user did not find the thing they are searching for and still looking for the service/product.
Admin	Users, developers of the website or hired people which review flagged content
Flagged Content	A search flagged as inappropriate.
Search	A post from user looking for a product or service.

1.4. References

IEEE. *IEEE Std 830-1998 IEEE Recommended Practice for Software Requirements Specifications*. IEEE Computer Society, 1998.

1.5. Overview of Document

The next chapter, the Overall Description section, of this document gives an overview of the functionality of the product. It describes the informal requirements and is used to establish a context for the technical requirements specification in the next chapter.

The third chapter, Requirements Specification section, of this document is written primarily for the developers and describes in technical terms the details of the functionality of the product.

Both sections of the document describe the same software product in its entirety, but are intended for different audiences and thus use different language.

2.0. Overall Description

2.1 System Environment

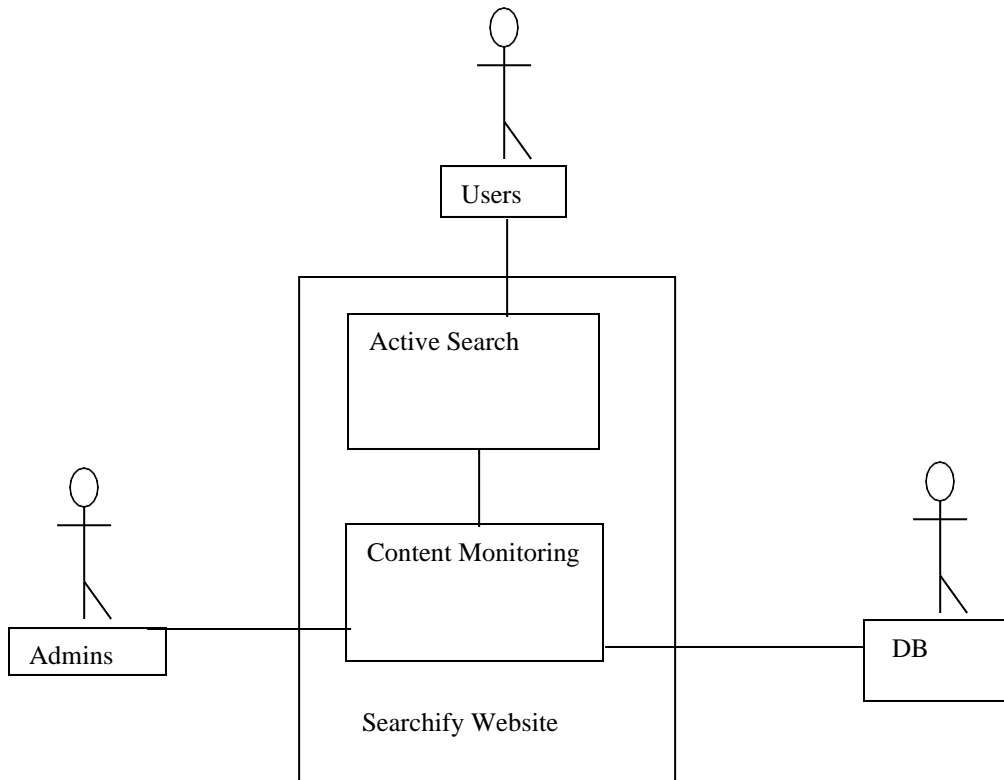


Figure 1 - System Environment

The Searchify Website has two active actors and one cooperating system. The Users, Admins access the posts. Users can communication with the system is posts and comments. The Admins accesses the entire system directly.

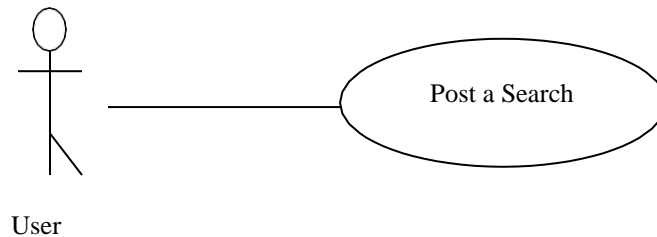
2.2 *Functional Requirements Specification*

This section outlines the use cases for each of the active actors separately. The users have only one use-case apiece while the admins is main actor in this system.

2.2.1 Reader Use Case

Use case: **Post a Search**

Diagram:



Brief Description

The User access the Searchify Website, post a new search.

Initial Step-By-Step Description

Before this use case can be initiated, the User has already accessed the Searchify Website.

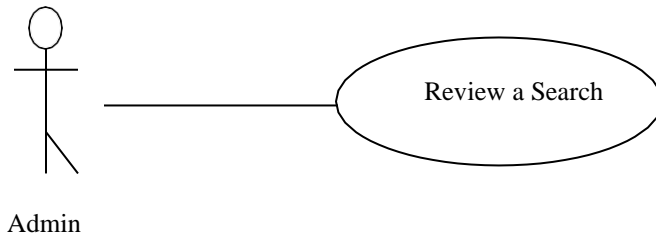
1. The User post a search by specifying, title, post body and tags
2. The system displays existing tags.
3. The User can create new tags.
4. The system presents a final draft to the post.
5. The User chooses to post the search or discard it.

Xref: Section 3.2.1, Post a Search

2.2.2 Admin Use Case Use

case: **Review a Search**

Diagram:



Brief Description

The admin either approve the search content or delete the post, only applied for flagged searches.

Initial Step-By-Step Description

1. The flagged search is posted
2. The System alerts the admins about it.
3. The Admin reviews the content
4. The Search may or may not be approved.

Xref: Section 3.2.2, Review a Search

2.3 *User Characteristics*

The User is expected to be Internet literate and be able to use a search engine.

The main screen of the website will have the search function and the post function.

The Admins are expected to be Internet literate.

The detailed look of these pages is discussed in section 3.2 below.

2.4 *Non-Functional Requirements*

The website will be on a server with high-speed Internet capability. The software developed here assumes the use of a tool such as Tomcat for connection between the Web pages and the database. The speed of the Reader's connection will depend on the hardware used rather than characteristics of this system. Access is already installed on this computer and is a Windows operating system.

3.0. Requirements Specification

3.1 External Interface Requirements

The only link to an external system is the link to the Database to verify the membership of a user. The Database fields of interest to website are username, user's first and last name, an Email account and a birthdate.

3.2 Functional Requirements

The Logical Structure of the Data is contained in Section 3.3.1.

3.2.1 Post a Search

Use Case Name	Post a Search
XRef	Section 2.2.1, Post a Search SDD, Section 7.1
Trigger	The user not finding an existing product that they are looking for
Precondition	The Web is displayed with grids for searching
Basic Path	<ol style="list-style-type: none">1. The user chooses how to search the Website. The choices are by using an already-existing tag or by creating a new one.2. If the search is labeled with its tags and title.3. The user writes the search body for more details.4. The system creates a tag or presents a list of all posts that are labeled with this tag.5. The user selects a search and review its body for more details.

Alternative Paths	<p>In step 1, if the user selects to search by a new tag, the system creates this tag and it becomes available for future searches.</p> <p>4. The system tries to focus on the other selected tags to give the user the closest product/service to what they're looking for.</p> <p>In step 1, if the user selects to search by an existing tag, the system presents other relative tags.</p>
Postcondition	The selected search's details are viewed by the user.
Exception Paths	The user may abandon the search at any time.
Other	None

3.2.2 Review a Search

Use Case Name	Review a Search
XRef	Section 2.2.2, Submit Article; Section 2.2.3, Submit Review SDD, Section 7.2
Trigger	The User Posting a flagged search.
Precondition	
Basic Path	The user posts a flagged Search. This invokes the admin to look into it.
Alternative Paths	If the Search is spam, the user will be blocked.
Postcondition	The search may or may not pass.
Exception Paths	The search might get wrongfully declined.
Other	None

3.3 Detailed Non-Functional Requirements

3.3.1 Logical Structure of the Data

The logical structure of the data to be stored in the internal database is given below.

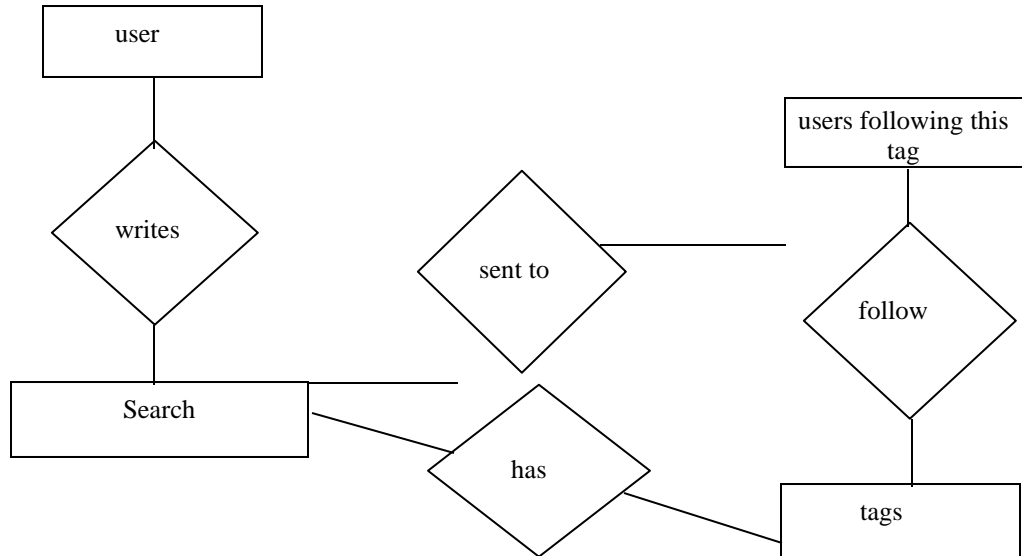


Figure 2 - Logical Structure of the Data

The data descriptions of each of these data entities is as follows:

User Data Entity

Data Item	Type	Description	Comment
Name	Text	Name of user	
Email Address	Text	Internet address	
ID	Integer	User's number	

Search Data Entity

Data Item	Type	Description	Comment
Title	Text	Short description for the Search	Optional
Body	Text	Details of the Search	

Tag Data Entity

Data Item	Type	Description	Comment
Name	Text	Tag's name	
Type	Text	What the tag's field is	Might be a location tag, a product type tag, etc

3.3.2 Security

The server on which the Searchify Website resides will have its own security to prevent unauthorized *write/delete* access. There is no restriction on *read* access.

The PC/Smartphone on which the Website/App resides will have its own security. Only the App will have physical access to the machine and the program on it. There is no special protection built into this system other than to provide the user/admin with *write* access to the Website to change the post or delete it.