ETHEREAL



SOFTWARE REQUIREMENTS SPECIFICATIONS



Datalight

Version: 1.0

Development and automation department





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Date	Version	Description	Author
11/05/21	1.0	Initial document	Arredondo Bonilla Cesar
			Chavez Vargas Javier
			Mancilla Mora Moises
			Valerde Sanchez Alejandro

Document validated by the parties on date:

Client	Supplier
ITT	Jaime Leonardo Enriquez Alvarez

1. Introduction

This document is a Software Requirement Specification (SRS) for the "Datalight" knowledge preservation system. This specification has been structured based on the guidelines given by the IEEE Recommended Practice for Software Requirement Specifications ANSI / IEEE 830, 1998.

1.1 Purpose

The purpose of this document is to define the functional and non-functional specifications for the development of a web information system that will allow to preserve the knowledge of an organization through the creation and visualization of topics. This will be used by the work team and the client.

1.2 Scope

Satisfy the needs of any company that wishes to store the knowledge generated and that this platform be of its degree and useful to solve the problems that the company faces. This project will be based on the creation and development of a flexible platform applying design, programming and analytics, etc. In addition to complying with the established requirements to store knowledge, it is intended that this platform be useful for companies and enter into direct competitiveness with others. leading brands in the market

1.3 Involved personnel

Name	Arredondo Bonilla Cesar
Role	Por ejemplo Administrador del sistema
Professional category	IT
Responsibilities	Process management and control

Name	Chavez Vargas Javier
Role	Scrum Team
Professional category	IT
Responsibilities	Support with the design and development of the project

Name	Mancilla Mora Moises
Role	Product Owner
Professional category	IT
Responsibilities	Manager, verifier and administration of methods and processes

Name	Valerde Sanchez Moises
Role	Scrum Master
Professional category	IT
Responsibilities	Manager of work teams

1.4 Definitions, acronyms and abbreviations

Definición

IT: Information technologies

User: Person who will use the system to manage processes

DB: Data Base

NFR: non-functional requirement

FR: functional requirement

1.5 References

Reference	Title
IEEE	Standard IEEE 830 - 1998

1.6 Document overview

This document consists of three sections. The first section introduces it and provides an overview of the system resource specification.

In the second section of the document, a general description of the system is made, in order to know the main functions that it must perform, the associated data and the factors, restrictions, assumptions and dependencies that affect development, without going into excessive detail.

Finally, the third section of the document is the one in which the requirements that the system must satisfy are defined in detail.

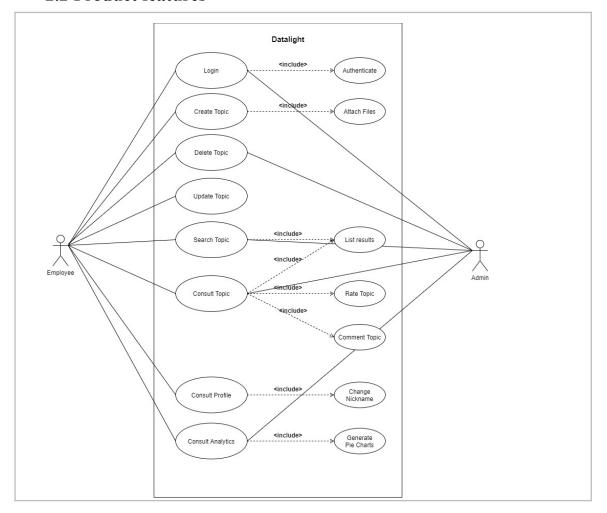


2. Description

2.1 Product perspective

Application in which users belonging to an organization will be able to generate and consult topics related to problems and their solutions, in these users will be able to rate and comment, and it will be accessible at any time.

2.2 Product features



2.3 User characteristics

Type of user	Employee
Education	Anyone
Activities	Browse and use the platform in a matter of topics

Type of user	Administrator
Education	High School
Activities	Manage topics and the platform

2.4 Restrictions

The platform must be applicable to any requesting company, it must be generic, it must connect to the company's BD and provide unique access to registered users, there must be no external records for their access, not provide personal information of the employees and It must have the access of employees and administrator users.

2.5 Assumptions and dependencies

- The company has enough storage space for the application
- The company manages a database of employees
- The company has an internal communication network
- Users will consult the platform for information
- The company will assign the personnel in charge of managing the solution

3. Specific requirements

High-level project requirements:	success criteria
Offer users a platform that is available at all times, that is easy to use and attractive, as well as that guarantees security of the information that is registered there	24/7 access to the platform and only to registered users
When a user writes a problem, they will be offered a catalog with topics and solutions documented by other users.	section, display and listing of topics stored in DB
Allow the topics that are published to also attach photos, videos or presentations with a maximum limit of size and duration.	corresponding section, access to attachments in the publication and storage in the database
Offer the user the power to consult the topics that they have registered and that are valued by other users.	corresponding section, search box, display of results, and in each publication corresponding section for evaluation
Offer data analytics on the topics that are more concurrent, the topics to which users have solved their problem using the recommendations or solutions made by other users	administrator user, corresponding section and display of data, graphs and queries of what is stored in the database



3.1 List of user requirements

011 2101	or 0.501 10 quar 0.110105				
Number	UR-001				
Name	Creator				
Type	✓ Requerimient	☐ Restriction			
Description	A user is able to create a	topic based on their exp	perience		
Priority	☑ High/Esencial	☐ Medium/Wanted	☐ Low/ Optional		
Number	UR-002				
Name	Searcher				
Type	☑ Requerimient	☐ Restriction			
Description	When a user writes a problem, they will be offered a catalog with topics and solutions documented by other users.				
Priority	☑ High/Esencial	☐ Medium/Wanted	☐ Low/ Optional		
Number	UR-003				
Name	Attach Files				
Type	☑ Requerimient	☐ Restriction			
Description Allow the topics that are published to also attach photos, videos presentations with a maximum limit of size and duration.			•		
Priority	☑ High/Esencial	☐ Medium/Wanted	☐ Low/ Optional		
Number	UR-004				
Name	Analytics				
Type	✓ Requerimient □ Restriction				
Description	Offer data analytics on the topics that are more concurrent, the topics to which users have solved their problem using the recommendations or solutions made by other users.				
Priority	☑ High/Esencial	☐ Medium/Wanted	☐ Low/ Optional		

4. External interface requirements

4.1 UI

The user interface will consist of a set of windows with buttons, lists and text fields. This must be built specifically for the system proposed.

4.2 Hardware Interfaces

It will be necessary to have computer equipment in perfect condition with the following characteristics:

- Internet or LAN connections
- 1.5GHz CPU or better.
- 4 GB RAM
- Mouse.
- Keyboard.

4.3 Software interfaces

- Windows Vista, 7, 8, 8.1, 10
- Chromium-based browsers

4.4 Communication interfaces

Servers, clients and applications will communicate with each other, using protocols BD standards, whenever possible. For example, to transfer files or documents should be used DB connections such as MySQL, or Firebase

5. Requisitos del sistema

5.1 Requisitos funcionales

Number	FR-01			
Name	Authentication			
Description	The user must be able to access the platform through the credentials that will be provided by the company			
Precondition	The ac	cess credentials	must have been giv	ven to the user by the
	administra	tor or the compa	any	
Normal	Step	Action		
sequence	1	The user w	vill open or access t	the platform from the
		access termina	l and enter their crede	entials
	2	The user will press the access button and the system		
	will confirm the existence of the credentials in the D			dentials in the DB
	3	The user wi	ill access the platform	dashboard
Postcondition	The user will be able to access all the functions of the platform			
	through its	interface freely	until they log out	
Exceptions	Exceptions Step Action			
	1	The user's credentials are not correct		
	2	The system	will display an aler	t message of incorrect
		credentials		
Priority	✓ High/Essential ☐ Medium/Wanted ☐ Low/ Optional			

Number	FR-02			
Name	Profiles			
Description	Users will have a specialized section where they can contract their basic information and the publications made and it will be visible to other users			
Precondition	FR-01 must have been met and the user must have entered the profile section			
Normal	Step	Action		
sequence	1	The user name of the s		ofile button or on the
	2	-	m display an interface the user display	where the content of
	3	User query	y information user spec	eific
Postcondition	The user	can access an	d consult the requested	d profile until you exit
	this interfa	ace		
Exceptions	Step	Action		
	1	The select	ed user is a user no lon	ger employed
	2	The syster	n will show the profile	e with less information
	than one if an employee			
Priority	✓ High/Essential		☐ Low/ Optional	





Number	FR-03			
Name	CRUD O _l	CRUD Operations		
Description		The system will connect to a database where publications will be created, read, modified and deleted. your attachments		
Precondition	The pla	atform must be	connected to the DB	
Normal	Step	Action		
sequence	1	The system will connect to the DB automatically		
	2	The system w	vill ask, depending on	the action carried out,
		to carry out th	e corresponding CRUI	D operation
	3	The system w	ill reflect the changes i	in the platform
Postcondition	The user will not notice or should be disturbed while these processes			
	are runnin	g and must be a	able to make full use of	f the platform
Exceptions	Step	Action		
	1	The system ha	as not been able to com	nect with the DB
	2	The system platform	will show an error m	nessage and close the
Priority	✓ High/Essential		☐ Low/ Optional	

Number	FR-04			
Name	Analytics			
Description	The platform will provide analytics to the administrator user referring to publications so that it can view or export them			
Precondition		must have beer the company	n met and the user mus	st have been defined as
Normal	Step	Action		
sequence	1	The admin	istrator must access t	he analytics section of
		the platform and press the button to generate analytics		
	2	The system will generate analytics in the of pie charts		
		and they will	be displayed in the inte	erface
	3	The admin	will consult graphical	ly the analytics
Postcondition	The adm	The admin will be able to consult these analytics until they exit the		
	interface a	nd will be able	to export them and ge	enerate a file with them
Exceptions	Step	Action		
	1	The syster	n has not been able	to read the analytics
		correctly		
	2	An error n	nessage will be displ	ayed and the interface
	will reload to retry it			
Priority	✓ High/Essential		☐ Low/ Optional	



Number	FR-05			
Name	Searches	Searches and results display		
Description	The user will be allowed to search for topics created by other users and the results will be displayed in relation to the keywords and shown in order of evaluation			
Precondition	The FR-01 must have been met and the cursor placed on the search bar			
Normal	Step	Action		
sequence	1	The user will capture the topic he wants to search and press the search button		
	2	The The system will search the database and display the results as a list		
	The user selected to the topic that most attract attention			
Postcondition	The user will be able to consult the topic until they exit their interface			
Exceptions	Step Action			
	1	The system has not found related results		
	A text will be displayed indicating the search with results			
Priority	✓ High/Essential			

Number	FR-06			
Name		Attachments		
Description	attach son	In the publications, the user will be able to decide whether to attach some types of files supported by the platform and that these are displayed in their publication		
Precondition	The FR-01 must have been met and be in the interface of the creation of topics			
Normal	Step	Step Action		
sequence	1	The user will select the button to add files		
	2	The system will show the window to select the files and the user will select the ones they want		
	3	The user will be able to see a list of the files that has been uploaded to their topic	ive	
Postcondition	One Onc	e the topic is published, users will be able to see and cons	sult	
	these uplo	aded files		
Exceptions	Step	Action		
	1	It has been selected an unsupported file		
	2	The system will display an alert asking you to select a		
	allowed file type			
Priority	✓ High/Essential			

Number	FR-07			
Name	Ratings and comments			
Description	The system will be able to provide the user with a space and the ability to access other topics and comment or generate feedback as well as assess the usefulness of the topic in a 1-5 numerical system			
Precondition	FR-01	nust have been met and accessed	a topic	
Normal	Step	Action		
sequence	1	The user will select the comment or rate button		
	2	The system will display the window corresponding to		
the case and t		the case and the user will enter the	ne data	
	3	The user will select the publis	h button	
Postcondition	Once the comment or assessment is published, they will be visible to			
	the rest of	he users		
Exceptions	Step	Action		
	1	The user has retracted their	comment or assessment	
		while performing		
	2	The user will select the canc	el button and the changes	
	will not be saved to the system			
Priority	✓ High/Essential		ed	

Number	FR-08			
Name	Main pag	Main page		
Description	The platform will display in the main access to it a list of the most recent topics and the last ones consulted by the user.			
Precondition	The FR	2-01 must have been met		
Normal	Step	Action		
sequence	1	The user can consult and navigate through the main interface		
	2	The user will be able to consult and visualize the last topics searched for by the same		
	3	The user will select the option that he wishes to carry out next		
Postcondition	The user will be able to access any available function in the interface			
	or remain	in the initial page until logout		
Exceptions	Step	Action		
	1	The platform is not available or under maintenance and will not show the initial page		
	2	The system will return to login and display an unavailable alert message		
Priority	✓ High/Essential			





Number	FR-09			
Name	Background Update			
Description	_	The system should update its content from the database in the background without disturbing the user.		
Precondition	The pla	atform must be	open in the access tern	ninal
Normal	Step	Action		
sequence	1	The system will connect to the DB automatically		
	2	The system will perform an update every specified time		
	3		is new data, the data y time the user perform	will be updated on the ns an action
Postcondition	The user will not notice or should be disturbed while these processes			
	are runnin	g and must be a	able to make full use of	f the platform
Exceptions	Step	Action		
	1	The system ha	as not been able to con	nect with the DB
	2	The system platform	will show an error n	nessage and close the
Priority	✓ High/Essential		☐ Low/ Optional	





Number	FR-10			
Name	Evaluation	Evaluation of topics		
Description	The system	m must be able to evaluate and notify that the publications		
	comply w	ith the rules predefined by the publishing company		
Precondition	The user n	nust have published a topic		
Normal	Step	Action		
sequence	1	The system will publish topic		
	2	The system will confirm the topic cu mpla with the		
		rules defined by the company		
	3	The system will decide whether to leave the publication		
		or delete it		
Postcondition	The system will show an alert message with a message of			
	publication or denial of publication			
Exceptions	Step	Action		
	1	The system has not been able to evaluate the topic		
	2	The system will send the topic for review to the		
		administrator		
Priority	✓ High/Essential			

5.2 Non-Functional Requirements

5.2.1 Performance

• NFR-01 Flexibility The system must be able to operate in multiple communication schemes

5.2.2 Dessing Restrictions

• NFR-02 Colors must match company colors

5.2.3 System attributes

- NFR-03 Response time in requests 90% of the transactions will not exceed the response time between 3 and 4 seconds
- NFR-04 The platform must be able to support the simultaneous access of at least 80-90% of the DB users

5.2.4 Other requirements

• NFR-05 Availability The system will be accessible to the user 24 hours a day, with a minimum availability of 99.6%