

# **ZOTERO**

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## **Zoterad and the Reference software Software Requirements Specification Version <1.0>**

Reference management software	Version : <2.0>
Software Requirements Specification	Date : <22/10/19>

## Revision History

Date	Version	Description	Author
<22/10/11>	1.0	SRS 1.0 First version of the SRS document, all the requirements defined	Akezhan Issadilov, Arystan Kalmakhanov, Laura Sayaphommy (Monad)
<22/10/19>	2.0	SRS 2.0 Second version of the document: -Change in the title -Number of requirements decreased -Punctuation added -Alignment -Sentences finished	Akezhan Issadilov, Arystan Kalmakhanov, Laura Sayaphommy (Monad)

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# Software Requirements Specification

## Introduction

This section of the Software Requirements Specifications will give an overview of everything included in this SRS by defining the purpose, scope, and references. It will also outline definitions, acronyms and abbreviations used throughout the document.

### 1.1 Purpose

The purpose of the Software Requirements Specification (SRS) is to gather and analyze designs and proposals that have arisen to specify the system, give a detailed description of the requirements, and define the system of the software Zotero with respect to consumers. This document shall also help users and developers gain a better comprehension of the project and outline concepts that may be discarded or developed in the future.

The SRS will also explain constraints, interface and interactions with other applications and software requirements.

The intended audience of this document are developers from all horizons since this software is open source.

### 1.2. Scope

The software system in question is called Zotero, the scope pertains to the features that makes it a solid reference manager. Zotero is a free open-source reference manager software which helps manage, store, and cite bibliographic references like articles and books. Each reference represents an item in Zotero. Zotero is a tool for sorting and gathering sources and research information.

In Zotero, items can be added manually, by using browser extension or by using specific information provided in the resources (such as PMID). Every item contains different metadata depending on its type (for example books, articles, films, letters, sound recordings, manuscripts etc.). Once added, the items and their metadata will be displayed in the software interface.

### 1.3 Definitions, Acronyms and Abbreviations

User	Someone who interacts with the software.
Open source	Open-source software is software with source code that anyone can inspect, modify, and enhance.
Metadata	Metadata is defined as the data providing information about one or more aspects of the data; it is used to summarize basic information about data that can make tracking and working with specific data easier.

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Items	Items can be everything from books, articles, and reports to web pages, artwork, films, letters, manuscripts, sound recordings, bills, cases, or statutes, among many others.
Collections	Collections are folders into which items relating to a specific project or topic can be placed.
Library	The library contains all the items and collections from a User.
RSS feeds	RDF Site Summary or Really Simple Syndication.
PMID	A PMID, also known as the PubMed reference number, is a number assigned by the NIH National Library of Medicine to papers indexed in <u>PubMed</u> .
ISBN	International Standard Book Number.
DOI	Digital Object Identifier System.
CSL	Citation Style Language.
HTTPS	Hypertext Transfer Protocol Secure (https) is a combination of the Hypertext Transfer Protocol (HTTP) with the Secure Socket Layer (SSL)/Transport Layer Security (TLS) protocol.
AES-256	Advanced Encryption Standard (AES).

## 1.4 Overview

The remainder of this document includes a general description as well as the functional and data requirements of the software. The section 2 of this document gives a general description of the product. The third section gives the requirements, constraints and assumptions and also provides a User viewpoint of product.

## 2. Overall Description

This document describes concisely the major features of the system. The SRS contains the various stakeholders' detailed product perspectives. It details the requirements, including functional requirements, usability requirements, reliability & availability requirements, performance requirements, security, supportability, and design constraints.

## 3. Specific Requirements

### 3.1 Functionality

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### **3.1.1 Manage Items**

ID: FR1

The system shall allow the user to manually add new items.

ID: FR2

The system shall allow user to enter information manually for an item.

ID: FR3

The system shall allow user to delete items.

ID: FR4

The system shall display detailed information of the selected items.

### **3.1.2 Manage Collections**

ID: FR5

The system shall allow the user to create new collections, folders into which items relating to a specific project or topic can be placed.

ID: FR6

The system shall allow the user to delete collections.

### **3.1.3. Search System**

ID: FR7

The system shall allow User to use Quick searches, which is a search box to find items.

ID: FR8

The system shall enable the user to use advanced searches.

### **3.1.4. Add items automatically**

ID: FR9

The system shall allow user to add items automatically with an identifier button if they provide ISBN number, DOI, or PMID.

### **3.1.5. Manage bibliographies**

ID: FR10

The system shall allow user to cite items using the CSL.

### **3.1.6. User authentication**

ID: FR11

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The system shall allow user to create profile and set credentials using email and password.

ID: FR12

The system shall allow user to update their credential information.

ID: FR13

The system shall allow user to authenticate themselves.

ID: FR14

The system shall save the authenticated user's library information.

ID: FR15

The system shall allow user to sync library across multiple computers.

### **3.1.7 Provide Customer Support**

ID: FR16

The system shall provide Customer online support.

ID: FR17

The system shall provide FAQ customer support.

## **3.2. Usability**

### **3.2.1. Graphical User Interface (Web Client)**

ID: UR1

The system shall provide responsive layout for different display sizes.

ID: UR2

The system shall verify that the user is not a robot on the registration.

### **3.2.2. Graphical User Interface (Desktop Client)**

ID: UR3

The system shall provide the use of icons and toolbars.

ID: UR4

The system shall provide the ability to change the font size.

ID: UR5

The system shall provide the ability to change the alignment of the tabs.

ID: UR6

The system shall provide the style editor.

ID: UR7

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The system shall provide the translator editor.

### **3.3. Reliability & Availability**

ID: RA1

Users shall be able to access desktop application without Internet access.

ID: RA2

Application shall be available in different languages.

### **3.4. Performance**

ID: P1

Website load time shall not be more than a few seconds for the user.

### **3.5. Security**

#### **3.5.1. Data Transfer**

ID: S1

The system shall use HTTPS protocol between client and server communication.

ID: S2

The system shall logout the user's account after some period of inactivity.

#### **3.5.2. Data Storage**

ID: S3

The system shall encrypt the data of newly created accounts using AES-256 encryption.

### **3.6. Supportability**

ID: SUP1

Application shall be usable on different platforms (desktop, web and mobile).

### **3.7. Design Constraints**

#### **3.7.1. Web Based Client**

ID: DC1

There are no memory requirements.



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### **3.7.2. Desktop Based Client**

ID: DC2

User's operating system shall be at least Windows 7 or macOS 10.11.

### **3.7.3. Web Browser Extension**

ID: DC3

User's web browser shall be at least version of Chrome 55, Firefox 60, Safari on macOS Big Sur.