



# Functional Requirements Analysis

Software Engineering

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# 1 Document Description

It is the aim this document to present the basic functionalities JabRef is expected to present.

JabRef is an application that consists on a collection of libraries that allows its user to use bibliographic references that compose each library.

Throughout the sprints, new user stories are created and dealt with, and use case diagrams are presented so as to properly understand how the program works.

## 2 Basic functional requirements

1. Add a library to the program
  - (a) Add new empty library
  - (b) Add existing library
  - (c) Save the current state of the library
    - i. Save the current state of the current library
    - ii. Save the current state of the current library in a different place
    - iii. Save all the libraries in the application
  - (d) Close
2. Collect bibliographic references
  - (a) Add bibliographic references
    - i. Manually
    - ii. Automatically
  - (b) Search bibliographic references on the web
  - (c) Import bibliographic references
  - (d) Add bibliographic references using an ID
  - (e) Extract metadata from a PDF document
3. Organise bibliographic references
  - (a) Edit bibliographic references
    - i. Edit
    - ii. Complete information using an online data base
  - (b) Group bibliographic references
    - i. View group
    - ii. Create group
    - iii. Display union of groups
    - iv. Display intersection of groups
    - v. Group tree
  - (c) Search bibliographic references from library
  - (d) Mark and grade bibliographic references
  - (e) Find duplicates

4. Cite bibliographic references
  - (a) Cite from native libraries
  - (b) Cite to external programs
    - i. Cite to Word
    - ii. Cite to OpenOffice/LibreOffice
  - (c) Pushing citation to external applications
5. Share bibliographic references
  - (a) Export
  - (b) Share a Bib(la)TeX Library
  - (c) Share SQL Database

### 3 Tasks

#### 3.1 Library-related tasks

TASK ID	TASK TYPE	TASK DESCRIPTION
A1	identify actors	add a library to the program
A2	create use case diagram	
A3	create use case description	
A1.a	identify actors	add empty library
A2.a	create sub-use case diagram	
A3.a	create sub-use case description	
A1.b	identify actors	add existing library
A2.b	create sub-use case diagram	
A3.b	create sub-use case description	
A1.c	identify actors	save library
A2.c	create sub-use case diagram	
A3.c	create sub-use case description	
A1.d.	identify actors	close library
A2.d.	create sub-use case diagram	
A3.d.	create sub-use case description	

#### 3.2 Collection-related tasks

TASK ID	TASK TYPE	TASK DESCRIPTION
B1	identify actors	collect entries
B2	create use case diagram	
B3	create use case description	
B1.a	identify actors	collect entries
B2.a	create sub-use case diagram	
B3.a	create sub-use case description	
B1.b	identify actors	search entries on web
B2.b	create sub-use case diagram	
B3.b	create sub-use case description	
B1.c	identify actors	import entries
B2.c	create sub-use case description	
B3.c	create sub-use case description	
B1.d	identify actors	add entries using an ID
B2.d	create sub-use case diagram	
B3.d	create sub-use case description	
B1.e	identify actors	extract metadata from a PDF
B2.e	create sub-use case diagram	
B3.e	create sub-use case description	

### 3.3 Organisation-related tasks

TASK ID	TASK TYPE	TASK DESCRIPTION
C1	identify actors	organise entries
C2	create use case diagram	
C3	create use case description	
C1.a	identify actors	edit entries
C2.a	create sub-use case diagram	
C3.a	create sub-use case description	
C1.b	identify actors	group entries
C2.b	create sub-use case diagram	
C3.b	create sub-use case description	
C1.c	identify actors	search references from library
C2.c	create sub-use case diagram	
C3.c	create sub-use case description	
C1.d	identify actors	mark and grade references
C2.d	create sub-use case diagram	
C3.d	create sub-use case description	
C1.e	identify actors	find duplicates
C2.e	create sub-use case diagram	
C3.e	create sub-use case description	

### 3.4 Citation-related tasks

TASK ID	TASK TYPE	TASK DESCRIPTION
D1	identify actors	cite reference
D2	create use case diagram	
D3	create use case description	
D1.a	identify actors	cite from native library
D2.a	create sub-use case diagram	
D3.a	create sub-use case description	
D1.b	identify actors	cite to external program
D2.b	create sub-use case diagram	
D3.b	create sub-use case description	
D1.c	identify actors	pushing citation to external application
D2.c	create sub-use case diagram	
D3.c	create sub-use case description	

### 3.5 Sharing-related tasks

TASK ID	TASK TYPE	TASK DESCRIPTION
E1	identify actors	share reference
E2	create use case diagram	
E3	create use case description	
E1.a	identify actors	export reference
E2.a	create sub-use case diagram	
E3.a	create sub-use case description	
E1.b	identify actors	share a Bibl(la)TeX Library
E2.b	create sub-use case diagram	
E2.b	create sub-use case description	
E1.c	identify actors	share SQL Database
E2.c	create sub-use case diagram	
E3.c	create sub-use case description	