NOVA SCHOOL OF
SCIENCE & TECHNOLOGY

Functional Requirements Analysis - Phase 2

Software Engineering

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1 Document Description and Overall Review

It is the aim this document to present the new functionalities the Scrum Team will be developing for JabRef, in an attempt to adapt the Agile document of Requirements Analysis to this project

2 New functionalities

2.1 Importing Bibliographic References from a CSV file

2.1.1 User Stories and Epics

Epic: "Import library from a CSV file."

User Stories:

- "As an author I want to import a library from a CSV file (sorted by author) so I can have access to the bibliographic references inside that file in my JabRef application."
- "As an author I want to click on the button "File" so that I can see the available options related to the management of files."
- "As an author I want to click on the button "Import" so that I can see the available options related to the management of imports."
- "As an author I want to click on the button "Import into current library" so that I can import the bibliographic references into the currently open library."
- "As an author I click on the csv file that I want to open so that I can use its bibliographic references in my JabRef application."

2.1.2 Involved Use Cases

The aim of this new functionality is to allow users to import bibliograhic references in existing csv files into their JabRef application.

Therefore, by looking at the use cases that compose JabRef, we can see that the new functionality allows the secondary actor "Out of system library" in the "Adding existing library" sub-use case to be a comma-separated values type of file.

The use cases involved in the implementations are "Add a Library to the Program" and "Add Existing Library" (sub-use case).

Add a Library to the Program

Identification of Actors

- Author: a user of JabRef. Characteristics: human, active.
- Out of system library: a library that already exists outside of the author's JabRef application. Characteristics: non-human, passive.

Use Case Description

- **Use Case Name**: Add a Library to the Program
- **Description**: An author adds a library to their JabRef application
- **Main Actor**: Author
- **Secondary Actor**: Out of system library

Add Existing Library

Identification of Actors

- Author: a user of JabRef. Characteristics: human, active.
- Out of system library: a library that already exists outside of the author's JabRef application. Characteristics: non-human, passive.

Use Case Description

- **Use Case Name**: Add Existing Library
- **Description**: An author adds a library that exists outside of the system (eg.: in the author's desktop) to their JabRef application
- **Main Actor**: Author
- **Secondary Actor**: Out of system library

2.2 Get More Bibliographic References from a Specific Author

2.2.1 User Stories and Epics

Epic: "Get more bibliographic references from a certain author."

User Stories:

- "As an author I want to be able to click on given a bibliographic reference in the currently open library so that I can find bibliographic references from the author correspondent to that reference."
- "As an author I want to right click on a bibliographic reference so that I can see the functionalities regarding that reference."
- "As an author I want to click on the button "Get more references" so that I can see other bibliographic references existent in Google Scholar from this author"

2.2.2 Involved Use Cases

With this new functionality, a user can click on a given bibliographic reference and choose to find more references with the same author of the clicked entry.

These references are found using a Google Scholar API.

From the use case perspective, it is as if though a new behaviour is being added to the automatic addition of entries in the currently open library.

As a result, the use cases involved in the implementation of this new functionality are "Add entries" and "From Google Scholar" - a new sub-use case that establishes a generalization type of relationship with "Add entries".

Add entries

Identification of Actors:

- Author: a user of JabRef. Characteristics: human, active.
- Web: online scientific catalogues like CrossRef, Google Scholar or IEEEXplore. It can also represent. online databases. Characteristics: non-human, passive.

Use Case Description

- **Use Case Name**: Add an Entry to the Program
- **Description**: An author collects entries automatically or manually to their JabRef application.
- **Main Actor**: Author
- **Secondary Actor**: Web

From Google Scholar

Identification of Actors:

- Author: a user of JabRef. Characteristics: human, active.
- Google Scholar: An online database with papers, articles, books, etc. Characteristics: non-human, passive.

Use Case Description

- **Use Case Name**: From Google Scholar
- **Description**: An author adds entries from a given author of books, papers, articles, etc., to their JabRef application.
- **Main Actor**: Author
- **Secondary Actor**: Google Scholar

2.3 Task management

In this section the team presents the management of tasks regarding the following sprints, based on the previously mentioned user stories.

TASK ID	TASK DESCRIPTION	RELATED FUNCTIONALITY
I1	Creating the new feature in JabRef	Import library from a CSV file
I2	Creating the button for the feature	
I3	Creating J-Unit tests	
I4	Creating demonstration video	
J1	Creating the new feature in JabRef	Get more bibliographic references from a certain author
J2	Creating the button for the feature	
J3	Creating J-Unit tests	
J4	Creating demonstration video	