OBASEB DESIGN DOCUMENT

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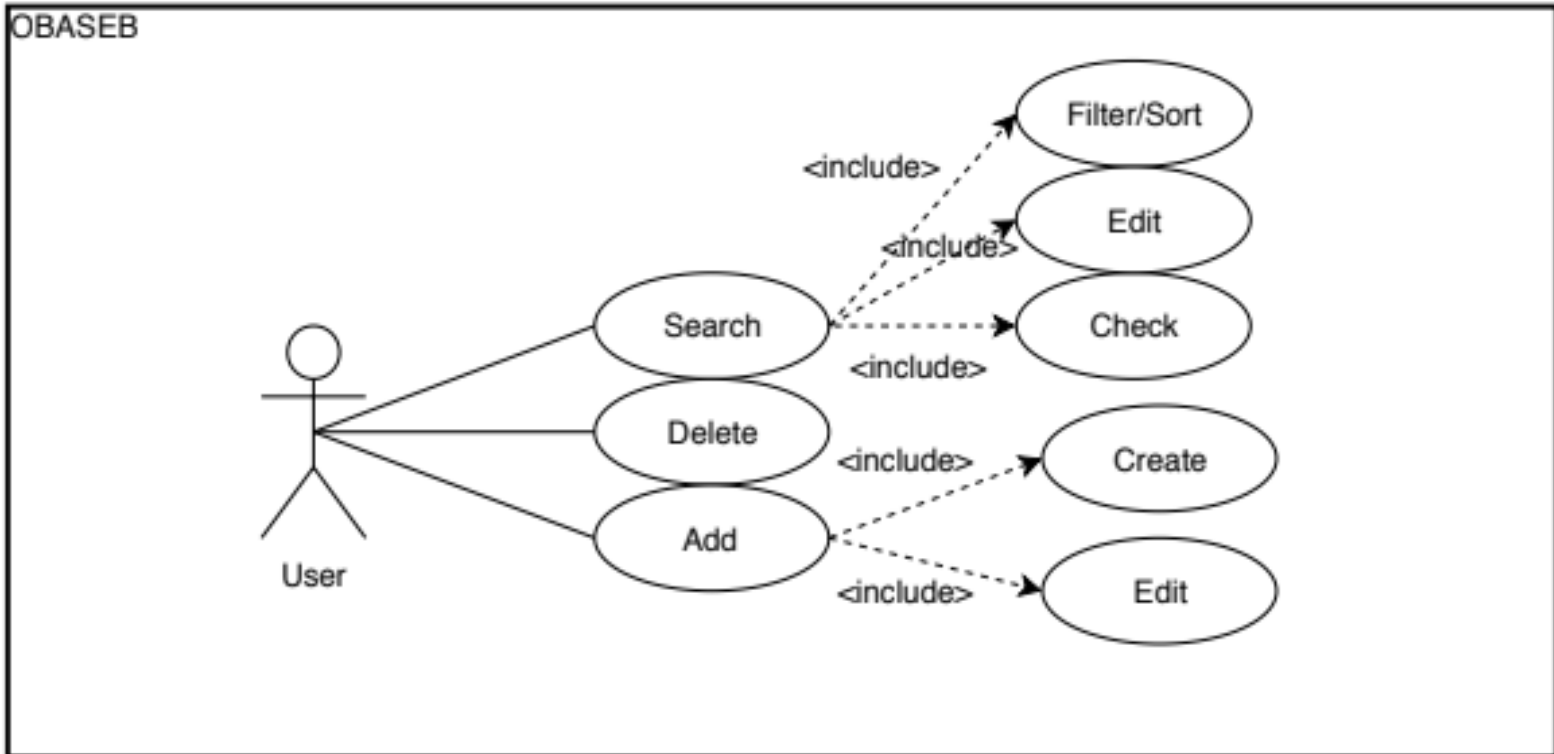# CONTENTS

1) Introduction

OBASEB, is an open software that supports creating, manipulating and saving BibTeX(.bib) files in your computer and in itself using a database. OBASEB supports standard BibTeX file format.

OBASEB uses an SQLite Database as its main source of data management tool. The search and display functions are handled through it and it does not require an active internet connection since its offline data handling capabilities.

OBASEB uses Java Swing as its primary User Interface grid. Swing will provide useful functions and tools to make it more user friendly and it will reduce the time it takes to develop this application. Also, the cross-platform support is a bonus.
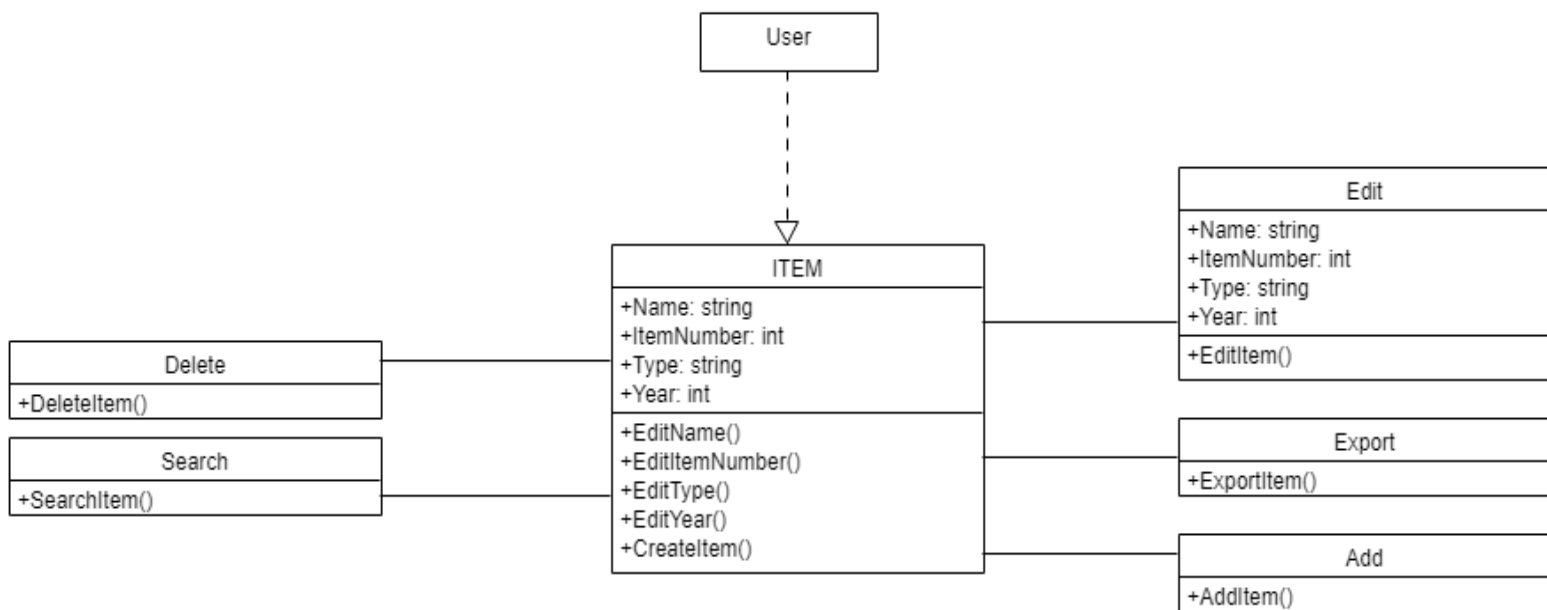
OBASEB uses JBibTeX library to open and edit a BibTeX file. It contains the functions for the main aim of this software.
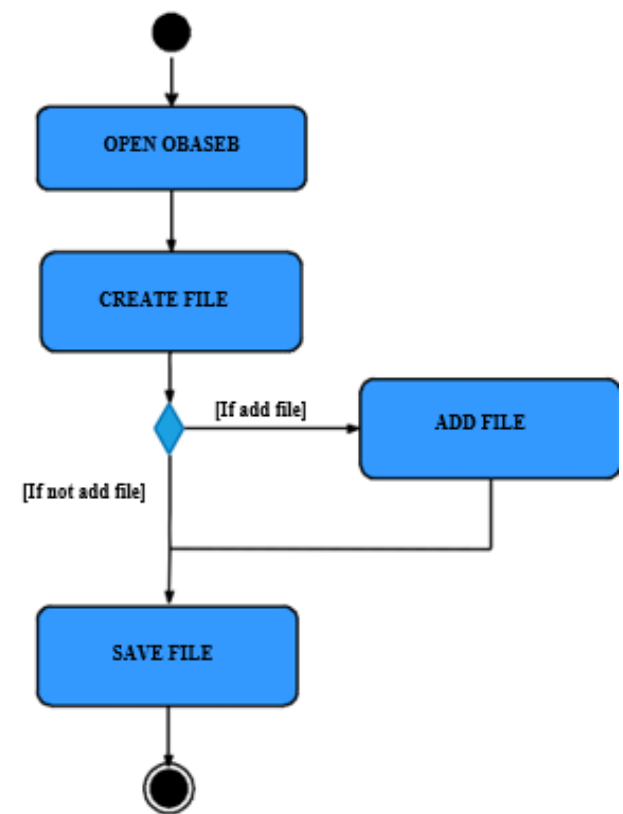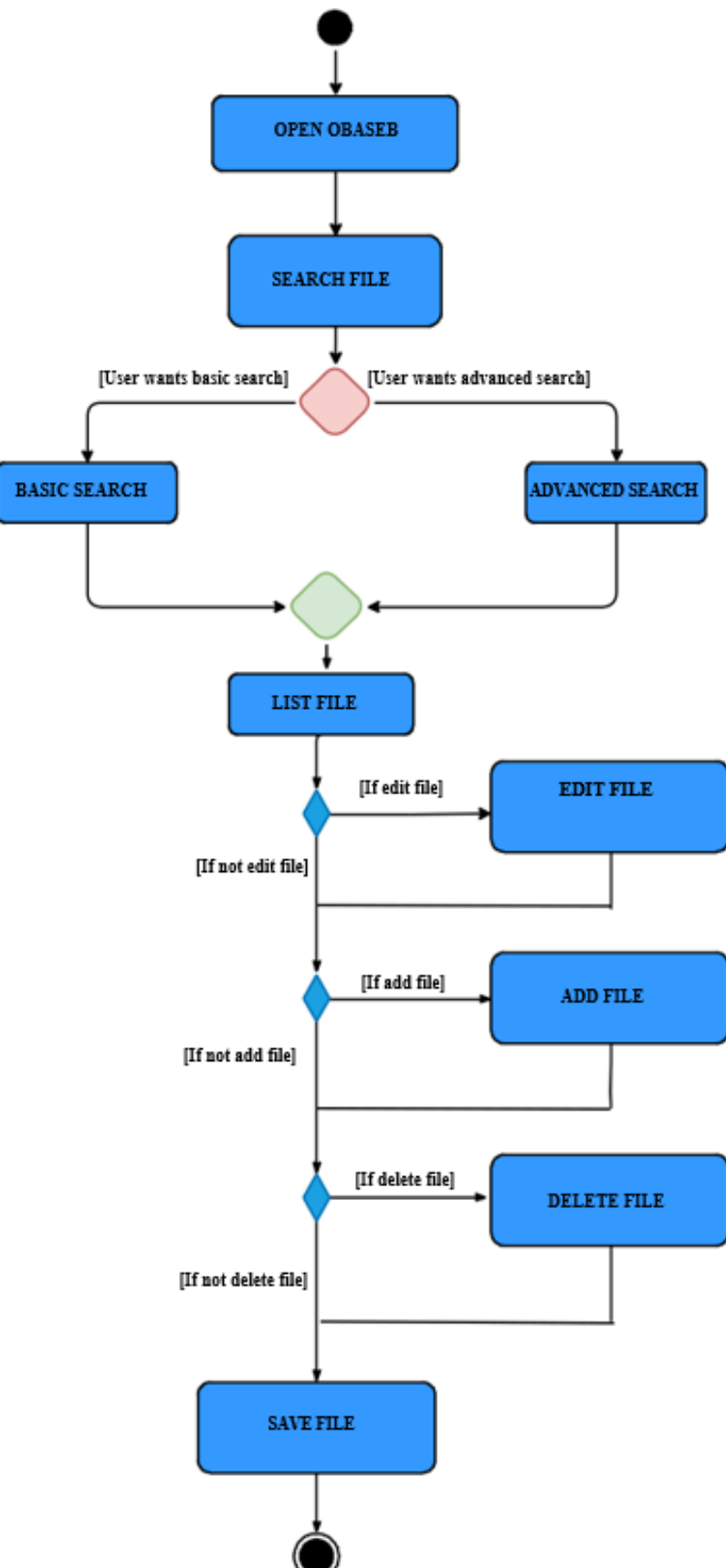
2) Use Cases

OBASEB

- User
- Search
- Delete
- Add
- Filter/Sort — <include>
- Edit — <include>
- Check — <include>
- Create — <include>
- Edit — <include>

➢ This application doesn't use any kind of login interface

➢ The user can directly manipulate the content with search, add and delete options.

➢ The search and add options have two subsections individually.

➢ There is a filter/sort and check subsections for search, create and edit sections.
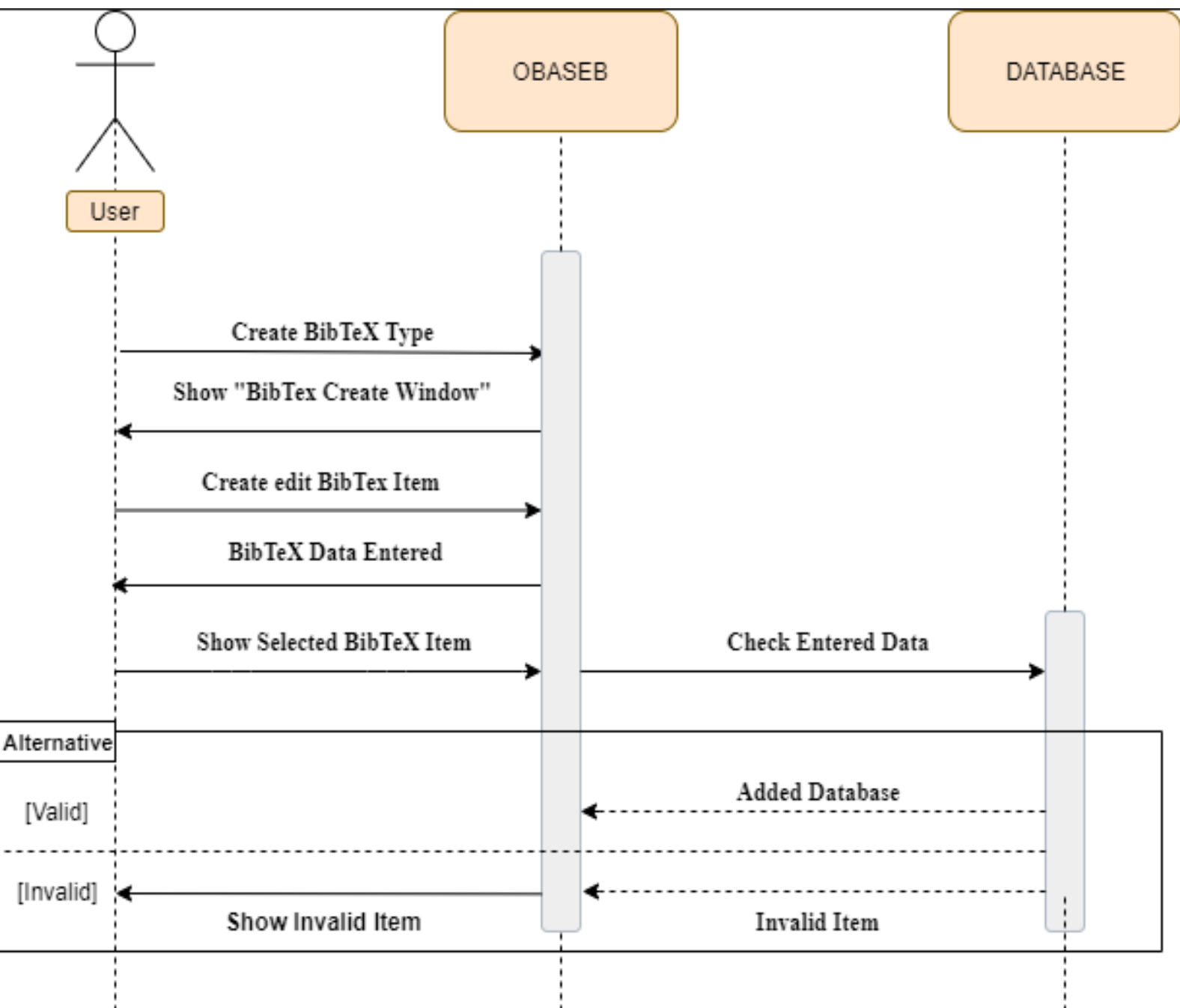
3) Class Diagram

User should create an item by using the CreateItem function then it's stored in library. After that, if user desires to do delete item which is already in library should be use the DeleteItem function and if user wants to change item properties then should be use the EditItem function. Also, user can search the items in the library by using SearchItem function and if user wants to add another item to library then user should be use AddItem function. If user wants to take item in library, user should be using the ExportItem function.
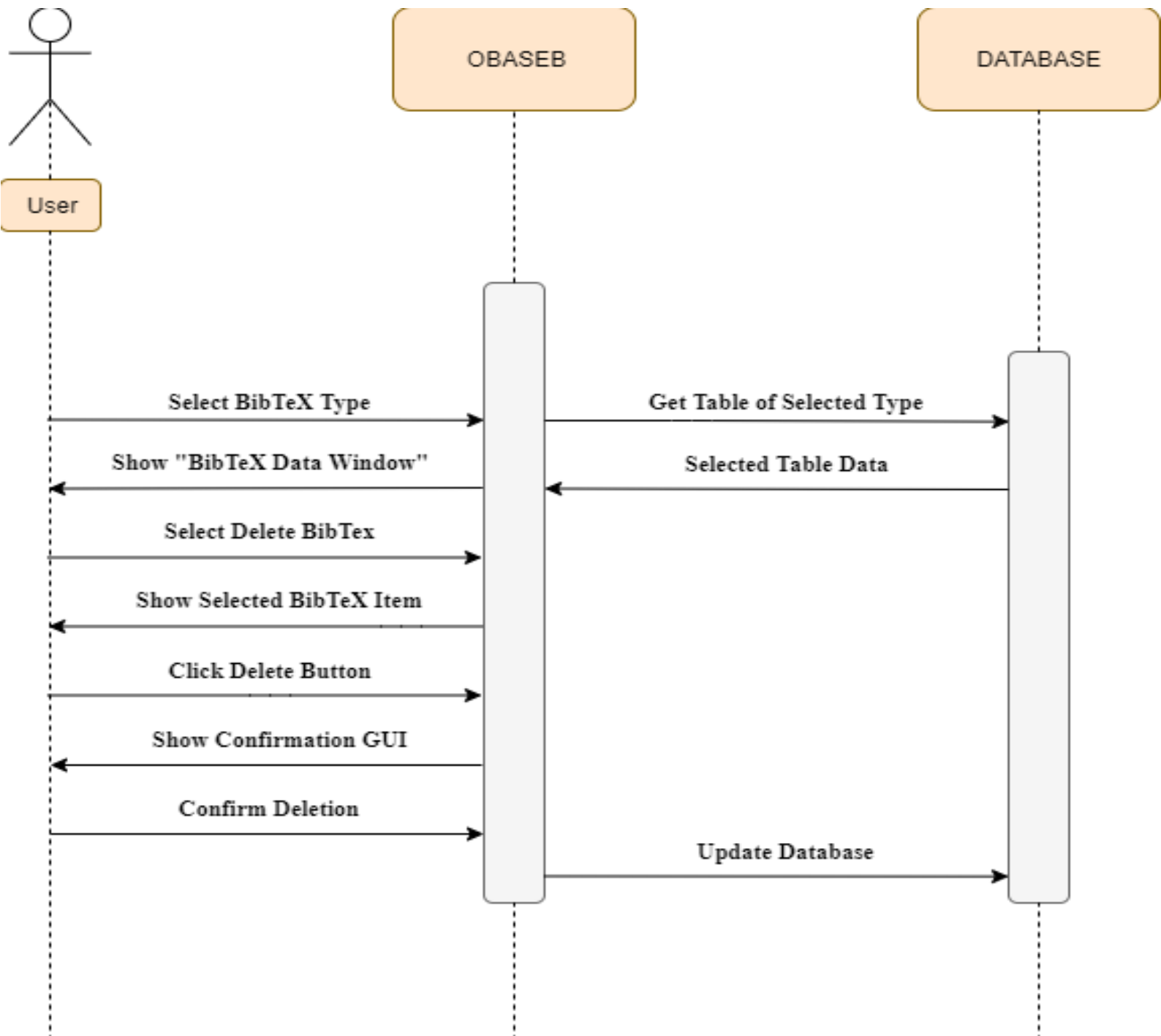
4) Activity Diagram

Left flow:

OPEN OBASEB → SEARCH FILE →

[User wants basic search] / [User wants advanced search]

BASIC SEARCH / ADVANCED SEARCH → LIST FILE

[If edit file] → EDIT FILE
[If not edit file]

[If add file] → ADD FILE
[If not add file]

[If delete file] → DELETE FILE
[If not delete file]

SAVE FILE

Right flow:

OPEN OBASEB → CREATE FILE →

[If add file] → ADD FILE
[If not add file]

SAVE FILE

5) Sequence Diagrams

5.1) Add Sequence Diagram

5.2) Delete Sequence Diagram

5.3) Edit Sequence Diagram