

# DETAIL DESIGN DOCUMENT

## "The BB Manager"

A bibliographies management system , created in order to assist the user in working with different bibliographies and citations in a convenient and efficient way.

System sign: \_\_\_\_\_ reference: \_\_\_\_\_

Project Manager: \_\_\_\_\_

System Designer: \_\_\_\_\_

Client: \_\_\_\_\_

System maintenance: \_\_\_\_\_

Responsible for maintaining the system: \_\_\_\_\_

Responsible for Manufacturing and operation: \_\_\_\_\_

The initiating document written by: \_\_\_\_\_ date: \_\_\_\_\_

The specification document written by: \_\_\_\_\_ date: \_\_\_\_\_

Validated and tested by: \_\_\_\_\_ date: \_\_\_\_\_

participants: \_\_\_\_\_

- <סיווג המסמך> -

זכויות היוצרים של מוצר זה או תבנית זו הן של חברת מתודה מחשבים בע"מ  
המוצר/התבנית ניתנים לשימוש אישי  
שימוש מסחרי מחייב רישוי מפת"ח

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## 1. GOALS

in this section the project's goals and expectations from the overall system is presented. There is a separation between the general goals of the project and the practical purposes.

### 1.1. Goals and purposes

#### 1.1.1. General goals

The goals are described in the following table :

MAIN GOALS	SECONDARY GOALS
Creating a data base based on the API	Building an easy and effective software for the user to handle
Editing information in the data base	Allowing the user a convenient work environment

#### 1.1.2. Practical purposes

The purposes of the system are described in the following list by order (from the most important to the least important) :

- Adding new information to the data base
- Erasing information from the data base
- Updating information in the data base
- Printing information from the data base
- Exporting information from the data base to another format

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## 1.2. Problems

### 1.2.1. Problems that the system should solve

cause	problem	solution	priority
Workload assignments	The user cant remember if he finished the work on a project	The projects are categorized (active\projected\archived)	high
Lack of organization	The user cant find old bibliographies and citations	The application organize all of the projects and the citations by order	high
Not knowing the sources	The user doesn't know where the citation is from	The ability to Search a citation by different parameters	medium
Working in continuity	The user cant remember what were his plans for the project	The ability to add personal notes to a project at any time	medium
Secured projects	The user cant use the information inside the project for other purposes	The application allows exporting a project or citations	medium
Configuration	The user needs to adjust the project to different demands	The ability to choose a format for the project	medium
Work demands	The user needs to use information he once already used before	The option of editing an existing project or citation	High
Security	The user wants to work on his bibliographies in a private space	The application requires a personal password that the user may choose for himself	high

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### 1.2.2. Problems that the system may create

cause	problem	type
No internet connection	The system doesn't work	Technical issue
The user forgot the password	No access to the system	Functionality
The user deleted a citation\project by mistake	The citation\project must be inserted again	Functionality

### 1.3.Applicability and cost\profits

#### 1.3.1. Risks – applicability of the project

## 2. GENERAL ARCHITECTURE

### 2.1. General features

#### 2.1.1. Current state

The current stage of the system is in process. We are developing the functions of the software while working with API and creating a data base for the application.

#### 2.1.2. The system's nature

The system is a new self-developed product , that has no connection to other systems available in the market. the system's type is partly information center and partly operative system because of the options that the application offers to the user. There is the option of operating in the application (creating\editing new projects\citations , adding notes, exporting to text file , etc.) , as well as the option of browsing in the archive without changing the information.

**Every edit to the project/citation/category will be trackable by field of date and time**

The activity type in the system is data entry since the application allows the user to insert the wanted information.

#### 2.1.3. Limitations

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The main limitations of the project are :

- the application is internet based (technical environment)
- the citations included in the projects may cause an issue of copyrights (legal issue)

#### 2.1.4. Glossary

- Data base – a comprehensive collection of related data organized for convenient access, generally in a computer.
- API – a set of protocols used by programmers to create applications for a specific operating system or to interface between the different modules of an application.
- Citation – the act of citing or quoting a reference to an authority.
- Export - to save (documents, data, etc.) in a format usable by another software program.

## 2.2. External binding

### 2.2.1. General binding

The product is a web-based application , that works without interfacing with other systems.  
the system's use and the general workflow of the application is presented inside the DFD diagram.

### 2.2.2. Users

The intended users of this application are:

- Project managers
- Testers
- Documentation writers
- Developers
- Students

### 2.2.3. Acquiring systems

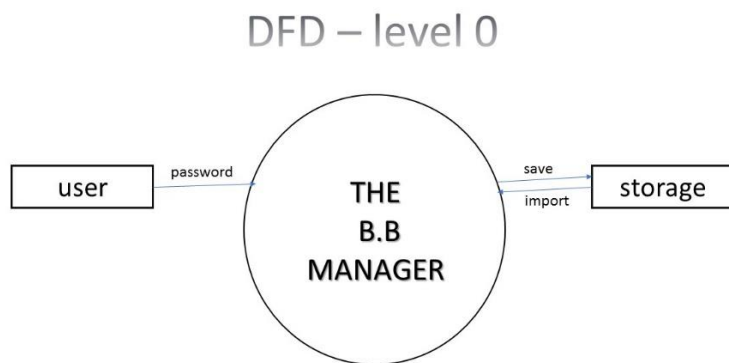
the system does not interface with any other system in the market.

It is an application that works in an API environment and relies on web connection.



## 2.3. Internal binding

### 2.3.1. General description of the system



The system is a bibliography management tool that was created in order to assist the user with handling documents and storing them for further use. The application works based on API data base rules , as well as web connection.

basically , the user is provided with access to the system threw a password of his choice (for security), after entering the system there are multiple options for managing the documents that are stored inside the data base. The user can use the application services as long as he is logged in to the system.

The system's functionality will be explained with more details in this design document.

## 2.4. User interface

### 2.4.1. General ergonomics

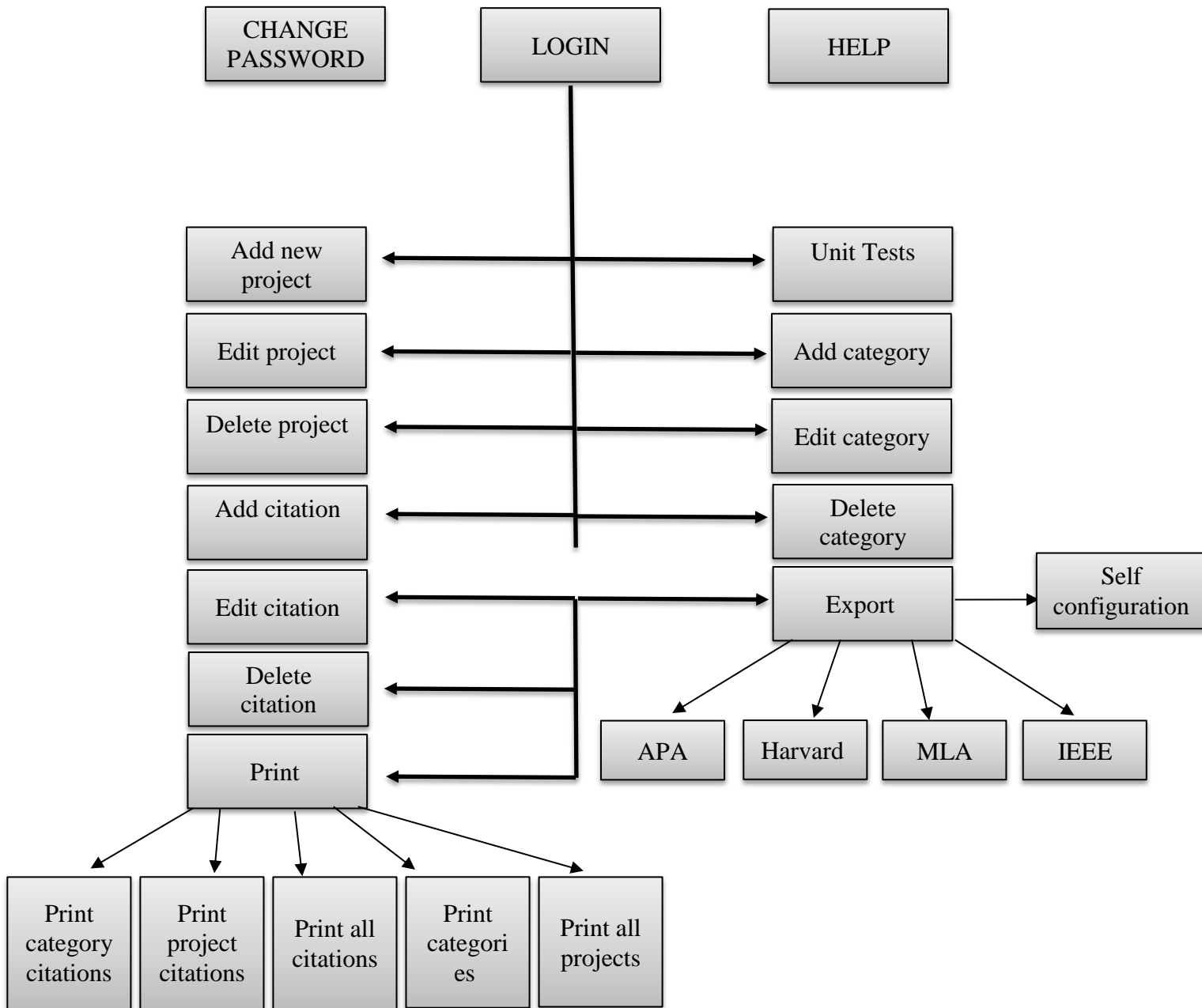
The system is working based on API data base, under the web-restrictions and conventions.

### 2.4.2. Tree of screens

In this section a diagram is added in order to present the available options of the application:

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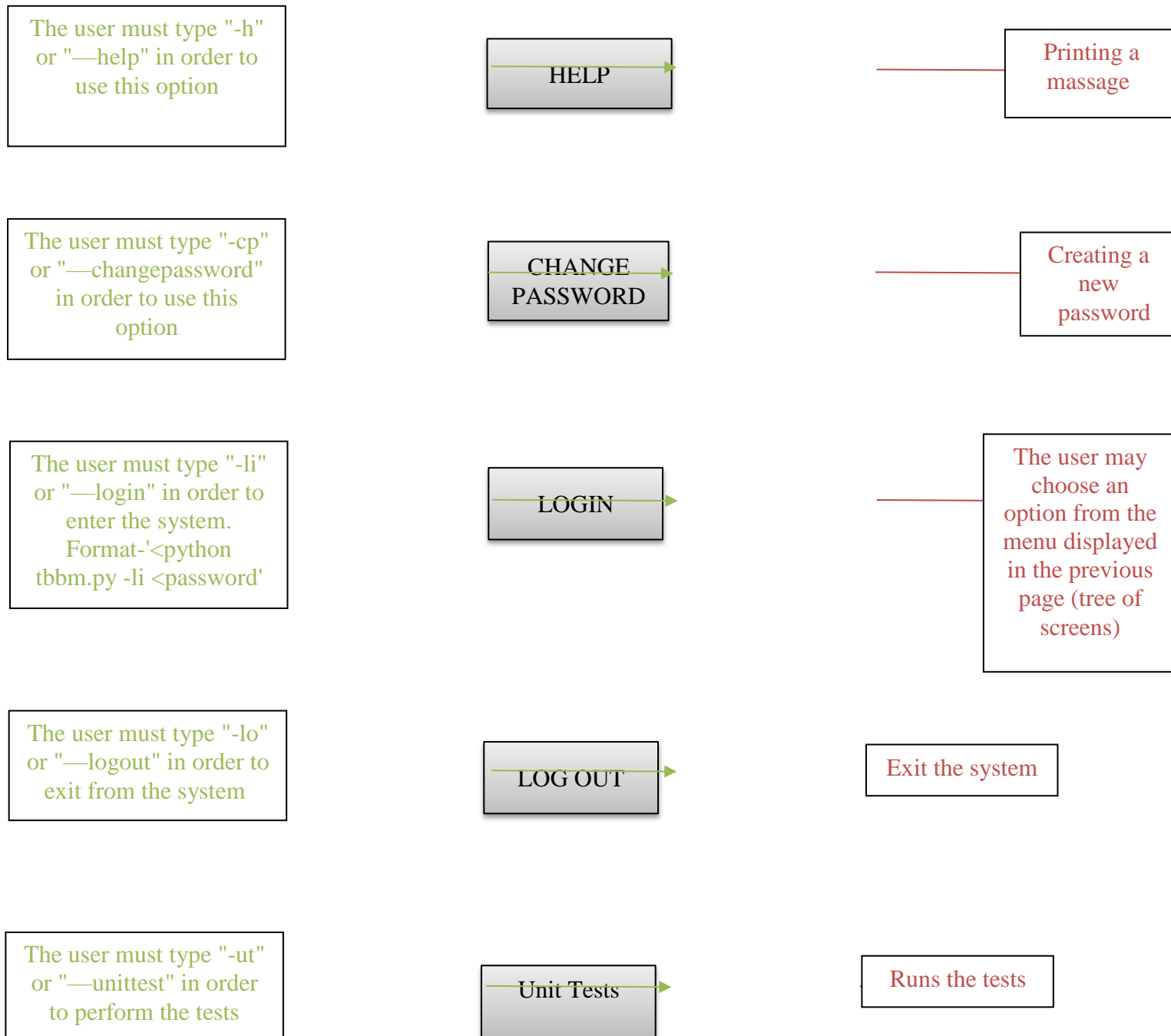


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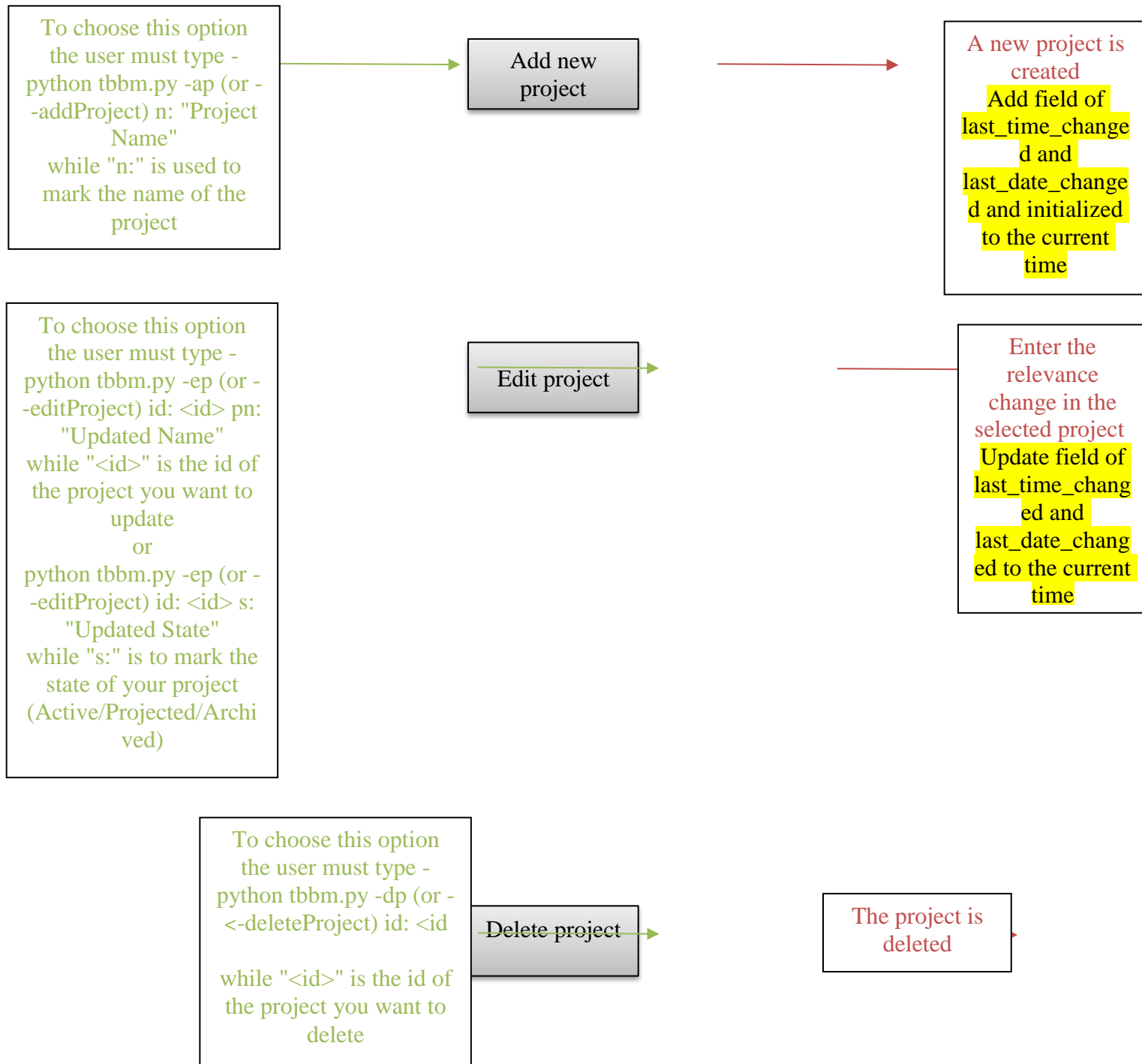
### 2.4.3. operation screens

the operations will be demonstrated in a diagram as well:



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After login into the system the following options are available :



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To choose this option the user must type -

python tbbm.py -ac (or --addCitation) <mark1>: <value1>

... <mark2>: <value2>

the list of the marks you can use

s:" - source type (Available source types are: Book, Journal, " Newspaper, Online, Magazine)

pid:" - the ID(s) of the project(s) that the citation is related to " (for example pid: "1 2 3 4")

t:"- title"

fn:" - main author's first name"

ln:" - main author's last name"

cid:" - the ID(s) of the category(ies) that the citation is " relevant to

f:" - will the file appear in the final version (use true/false " only )

n:" - a note"

y:" - publishing year"

(optionally) pub:" - publisher"

(optionally) m:" - publishing month"

(optionally) d:" - publishing day"

(optionally) ps:" - from page \_\_ "

(optionally) pe:" - to page \_\_ "

(optionally) u:" - URL "

sfn:" - secondary author's first name (optionally)"

sln:" - secondary author's last name (optionally)"

Add citation

The citation is being added according to the information the user enters

Add field of last\_time\_chang  
ed and  
last\_date\_chang  
ed and  
initialized to the  
current time

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To choose this option the user must type -  
python tbbm.py -ec (or --editCitation) id: <id>  
<mark>: <new\_value>

while "<id>" is the id of the citation you want to update and "<mark>" is the mark of the field you want to update

Edit citation

The citation is being changed according to the information the user enters

Update field of last\_time\_changed and last\_date\_changed to the current time

To choose this option the user must type -  
python tbbm.py -dc (or --deleteCitation) id: <id>

while "<id>" is the id of the citation you would like to delete

Delete citation

The citation is deleted

To choose this option the user must type -  
python tbbm.py -acat (or --addCategory) n: "Category Name"

while "n:" is used to mark the name of the category

Add category

New category is available

Add field of last\_time\_changed and last\_date\_changed and initialized to the current time

To choose this option the user must type -  
python tbbm.py -ecat (or --editCategory) id: <id> catn: "Updated Name"

while "<id>" is the id of the Category you want to update

Edit category

The category is changed according to the information inserted by the user

Update field of last\_time\_changed and last\_date\_changed to the current time

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To choose this option the user must type -  
python tbbm.py -dcat (or --deleteCategory) id: <id>  
while "<id>" is the id of the category you want to delete

Delete  
category

The category is  
deleted

To choose this option the user must type -  
python tbbm.py -eieee (or --exportIEEE) <id>  
while <id> is the id of the project you would like to export in IEEE format

To choose this option the user must type -  
python tbbm.py -emla (or --exportMLA) <id>  
while <id> is the id of the project you would like to export in MLA format

To choose this option the user must type -  
python tbbm.py -eh (or --exportHarvard) <id>  
while <id> is the id of the project you would like to export in Harvard format

To choose this option the user must type -  
python tbbm.py -eapa (or --exportAPA) <id>  
while <id> is the id of the project you would like to export in APA format

Export

IEEE format

MLA format

Harvard format

APA format

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## **2.11. Information security**

### **2.11.1. General – clarifications**

This system is a non- classified system for private use.

the security of the information kept inside the application is being guarded by a personal password that the user created for himself.

There is no danger for anyone if the information will reveal, but the privacy is provided by the password.

### **2.11.2. Information security risks**

The security risks that may happen in this system are :

- A different person enters to the user's account (knowing the password)
  - The password is not complicated enough (there is a risk that someone will break into the account)
  - The information kept in the data base is open to other sources
- non of the risks above is dangerous to the user or to any other entity, as well as the environment and the system itself. The risks are minor and only effects the privacy of the user,. the app stores bibliographies and not classified information of any sort so there is no risk of important delicate data leak.

### **2.11.3. Information security tools**

In order to enter the system , the user must create a personal password that is going to allow access to the app for further use.

other then the password that the user chooses for his account there are no other security limitations in the system.

as mentioned before, the information stored in the data base is not classified and does not require any security measures.

### **2.11.4. Security management**

- \* accounts management – personal password for every new user (account)
- \* the app's services are available for the user as long as he didn't log out of the system



## 2.12. Interfaces and links

### 2.12.1. Index and general list

- The name of the system : "The BB Manager"
- Connection type : web based ,information storage application
- The type of the system : self – developed, first addition
- A non-classified system for bibliography documents management

### 2.12.2. Interface x

The system does not interface with any other system, it is a web-based application that does not require services from different systems.

## 2.13. Special demands

- Flexibility :
  - The system is web-based , meaning that the web connection is necessary for the activation of the system. Without internet connection the application does not work.
  - The system works with API data base.
  - The user must work on the application according to the instructions presented in the help section inside the app.
- Portability :
  - The system works with API fire base, the code and the overall functionality of the system depends on the data-base.
  - The system is web-based , meaning that every platform that has web connection is able to enter the application and use it ( computers ,phones , ipads , etc. ).
- Languages :
  - The system is available in English , the instructions and all of the options provided by the application are in the English language .

## 2.14. Future demands

- Allowing access to the system without web connection
- Allowing the user to choose the language comfortable for him