

Project Report and User Manual

Team 8 - eBook Perpetual Access Tracking

CS-4820 Software System Project

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ABSTRACT

The ebook perpetual access tracking application will assist librarians with the tracking of perpetual access rights for ebooks available for their library or institution. Libraries have a collection of ebooks from various publishers that they purchase the perpetual access rights to. Librarians track these access rights, as occasionally, access rights may be incorrectly revoked by the publishers or simply to keep a log of all of the ebooks they have access to. However, there is no standardized way to do this. The Canadian Research Knowledge Network (CRKN) maintains a collection of spreadsheets that contain the ebooks that all Canadian institutions have access to from those publishers. Individual institutions can also purchase ebooks, so they also maintain their own collection of spreadsheets. As a result, searching for a particular ebook access rights is inconvenient and takes place across a number of spreadsheets in various locations. The ebook perpetual access tracking application will provide a centralized location for librarians to verify whether or not they have the rights to access a particular ebook or collection of ebooks at their particular library or institution.

1. INTRODUCTION

This chapter gives an overview of the aim and objectives of the project along with the system's background and operation environment.

1.1 Project aim and objectives

The aims and objectives that will be achieved after the completion of this project are as follows:

- Develop a centralized application for librarians to track ebook perpetual access rights, eliminating the inconvenience of searching across multiple spreadsheets.
- Facilitate the loading of both CRKN access spreadsheets and local institution spreadsheets into a local database, ensuring seamless data integration.
- Implement a robust search system allowing users to search ebooks by title, ISBN, or OCN numbers.
- Develop an application that is accessible

1.2 Background of the Project

Traditionally, librarians have relied on manual methods to access and track perpetual access rights for ebooks via maintaining and accessing multiple different spreadsheets. The CRKN has played a crucial role in maintaining and managing the aggregation of information about ebooks to various Canadian institutions from multiple publishers. Nonetheless, the information is spread across multiple spreadsheets which are maintained by not only the CRKN but the institutions as well, making it difficult for the librarians to keep track and verify their access rights.

The idea of this application was conceived to provide a more convenient way to track and verify these access rights for ebooks. This project aims to develop a user-friendly application for librarians to effectively track access rights available to them and their institutions.

The application will not only be able to access the spreadsheets offered by the CRKN but also allow access to the local spreadsheets available to the librarians through their institutions. This information will be centralized in a database, which the librarians can access and verify via the

application's user-friendly interface. Additionally, the application will allow the librarians to search ebooks by their title, OCN, ISBN or any combination of the three.

1.3 Operation Environment

The eBook Perpetual Access Rights Tracker is a Python application with versions that operate across the three main operating systems. The following is a list of dependencies and libraries used during the creation of the application, also found in the requirements.txt file in the GitHub project repository.

```
beautifulsoup4==4.12.3  
pandas==2.2.0  
Requests==2.31.0  
openpyxl==3.2.0b1  
PyQt6==6.6.1  
pytest==8.0.0
```

1. System Analysis

2.1.1 Software Requirement Specifications

Product Description:

The application ePAT is a desktop application that helps the users (librarians) manage and keep records of perpetual access rights for eBooks in the library in the form of tables in a local database. It helps users to not only access these perpetual access rights once the database is updated from the CRKN website, but it also allows the users to upload their local files into the database.

PROBLEM STATEMENT: The problems that occurred before having the application include:

- Accessing the ebook data files:
Before the application, the users (librarians) had to go through the ebook data files they had in their system to search for the ebook they wanted to look up for tracing perpetual access rights about it via using its title or OCN or ISBN.
- Difficult to search records:
Before the application, the users (librarians) had to go through every ebook data file to search for their desired results.
- Time-consuming and difficult:
Before the application, the search process for ebook perpetual access rights in the ebook data files was very time-consuming and cumbersome. Also, since the records are enormous, looking through all of them turned out to be very difficult.
- Lost records/ebook data files:
Before the application, ebook data files could get misplaced or be lost forever, leaving no records of them, making it quite challenging to check for previous updates and records when needed.

2.1.2 System Objectives

- Improvement in ease of accessing files by providing all of them via one platform (database setup in the application):

The system has a database which holds all the data from the ebook data files in a sorted table format providing a much easier way of searching and accessing ebook access rights via searching for their title or OCN or ISBN.

- Ease of updating the database:

The application provides the users (librarians) with an option to stay updated by asking them to update their database, which then updates the database with all the recent and new information.

The application also allows the users (librarians) to upload any local files they might have on their system into the database.

- Ease and efficiency of searching ebooks:

The application allows the users (librarians) to search for ebooks using their title, OCN or ISBN across all files in the database at once.

- Track record of previous files:

The application keeps a copy of previous updates and data in the database, and if required, these records can be accessed easily, without the fear of them being lost or misplaced forever.

2.1.3 System Requirements

2.1.3.1 Non-functional requirements:

Product Requirements:

- Efficiency Requirement: When the ePAT application is implemented, librarians and users will be easily able to access perpetual access rights for ebooks very quickly.
- Reliability Requirements: The system should accurately and efficiently perform searches based on ebook title, OCN and ISBN, returning a list of matching eBooks with their corresponding access rights and attributes.
- Usability Requirements: The application is designed to provide a user-friendly interface so that librarians can easily and efficiently perform searches.
- Implementation Requirements: In implementing the whole application, PyQt in Python has been used to develop the GUI. For the database, SQLite3 has been used which comes bundled with Python modules for creating databases. All the backend and frontend connectivity has been done using Python itself.

2.1.3.1 Functional requirements:

1.1 SEARCH EBOOK:

Description of feature: We can search an ebook via its Title, OCN or ISBN.

Functional requirements:

- The application should be able to collect the CRKN eBook data files and store them in the database, or update the existing files if new versions exist.
- The application should be able to search the database based on the type of search.
- The application should be able to filter out data based on the type of boolean option selected.
- The application should be able to display the filtered results in a table format.

1.2 UPLOAD LOCAL FILES:

Description of the feature: We can upload local files (files that are already present in our system) to the database.

Functional requirements:

- The application should allow the user to upload a file from their system into the database.
- The database should store the ebook data file and allow access to it via performing the search.

1.3 CHANGE INSTITUTION:

Description of the feature: We can select the institution for which we want to search the PA rights of eBooks.

Functional requirements:

- The application should allow the user to change institutions in the Settings section of the application.
- The application should save the user's preference for any future searches, as well as for the next time the application starts.

1.4 UPDATE LOCAL DATABASE:

Description of the feature: The application allows users to update their local database for any recent changes/additions.

Functional requirements:

- The application should allow the user to choose whether to update (re-scrape the CRKN website) for any changes at the launch of the application.
- Allow the user to go to the Settings section of the application and be able to update the database per need.

1.5 EXPORT SEARCH RESULTS:

Description of the feature: The application allows the user to download their search results into their system.

Functional requirements:

- The application should be able to display the relevant results in a tabular format.
- The application should have an export/download button at the bottom of the results table.
- The application should be able to ask for the location where the user wants the results stored in the form of a .tsv file.

1.6 SCRAPES PERPETUAL ACCESS RIGHT DATA:

Description of the feature: The application allows users to scrape the CRKN website for any recent updates and update the local database accordingly.

Functional requirements:

- The application should allow the user with a selection to scrape the CRKN website in the form of a pop-up right when the application launches.
- Allow the user to select and proceed further with the application or search process.
- Allow the pop-up to be displayed every time the user launches the application.

2.1.4 Software and Hardware Requirements:

This section describes the system's software and hardware requirements.

2.1.4.1 Software requirements:

- Operating System: Windows 10 and 11, macOS, and Linux (Ubuntu) as it is stable, supports more features, and is user-friendly.
- Python 3.10-3.12 versions were used throughout the development of the application.

2.1.4.2 Hardware requirements:

- Intel core i5 for Windows and M1 processor for Mac have been used because they are faster than the other processors and provide a reliable and stable environment in which to run the code for a longer time on our systems.

2.2.1 Existing System

- Earlier, librarians used to search for PA rights for eBooks in multiple spreadsheets stored and saved in their system.
- They had to update and replace these spreadsheets manually from the CRKN website and keep a regular check for updates.

- Maintain and arrange these ebook data files manually.
- Look for PA rights for an eBook via its title, OCN or ISBN, making the task complex and time-consuming.
- Loss of old records led to difficulty in searching if the institution had rights to a particular eBook or not.

2.2.2 Proposed System

“ePAT-” The eBook Perpetual Access Rights Tracking app has been developed to solve the inconveniences mentioned in the existing system.

- Users can select their institution.
- Users can select their language.
- Set up a database with all the ebook data files from the CRKN website.
- The app offers to check the CRKN website for any updates and gives librarians a choice of whether to update or not.
- Allows librarians to upload their own ebook data files to the database.
- Allow the user to perform searches for ebooks via their title, OCN, and ISBN.
- Allow the user to export their search results in the form of a TSV file.

2.3 Software Tools Used

The whole project is divided into two parts: Frontend (GUI) and Backend.

2.3.1 Front end:

- The front end is designed using PyQt6 and Qt Designer.
- PyQt6 contains several Python extension modules and plugins that enable Qt Designer to extend using Python code.

2.3.2 Back end:

- The back end is designed using:
- Pandas in Python
- BeautifulSoup in Python
- SQLite3

2. System Design

3.1 TABLE DESIGN

eBook Data File Format

	A	B	C	D	E	F	G	H	I	J
1	Taylor&Francis									
2										
3										
4	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	agreement_code	collection_name	title_metadata	Acadia Univ.	Algoma Univ.
'Bread and Circuses' : Euergetism and munic	Taylor & Francis Group	2002	9780203994948	50028694	acode	colname	2023-05-01	Y	N	
'Let us die that we may live' : Greek homilies	Taylor & Francis Group	2003	9780203413456	51046949	acode	colname	2023-05-01	Y	N	
'Other Kinds of Dreams' : Black Women's Or	Taylor & Francis Group	1998	9780203981566	39329991	acode	colname	2023-05-01	Y	N	
'Race', Class and Gender in Exclusion from Routledge		2002	9780203487020	191035321	acode	colname	2023-05-01	Y	N	
'Tis Pity She's A Whore : John Ford	Taylor & Francis Group	1997	9780203134948	1058093439	acode	colname	2023-05-01	Y	N	
'Mixed Race' Studies: A Reader	Taylor & Francis	2004			#N/A	acode	colname	2023-05-01	Y	N
(Con)Fusing Signs and Postmodern Position	Taylor & Francis Group	1999	9780203016756	252935861	acode	colname	2023-05-01	Y	N	
(Re-)Reading Bede : The Ecclesiastical Hist	Taylor & Francis Group	2006	9780203307106	64510352	acode	colname	2023-05-01	Y	N	
'Race', Sport and British Society	Taylor & Francis Group	2001	9780203187913	45248252	acode	colname	2023-05-01	Y	N	
101 Ethical Dilemmas	Taylor & Francis Group	2003	9780203480557		#N/A	acode	colname	2023-05-01	Y	N

(An example of a valid eBook data file)

All files that get uploaded to the application must follow strict formatting guidelines.

- File must be an Excel (.xlsx), CSV, or TSV file.
- If the file is an Excel file, the sheet name that contains the eBook data must be titled “PA-Rights”
- Platform in top left (cell A1)
- Header row on row 3
 - First 8 headers must be, in order, Title, Publisher, Platform_YOP, Platform_eISBN, OCN, agreement_code, collection_name, and title_metadata_last_modified.
 - Following the first 8 columns, any number of institution names can follow.
- Columns Title, Platform_eISBN, and any institution name columns must have complete data for each entry in the file.
- CRKN eBook files must follow a naming convention of:
 - CRKN_EBookPARightsTracking_platform_YYYY_MM_DD_V.(extension)
 - Platform must be a unique identifier for each CRKN eBook file
- Local eBook files do not need to follow a standard naming convention.

DATABASE STRUCTURE:

The application uses a SQLite database to store all of the data from eBook data files obtained from the CRKN website and local uploads. The data from each file is stored in its own table, and the table name and upload/update date is stored in two separate tables.

Table 1: CRKN_file_names: (file_name, file_date)

- A collection of all the tables that contain CRKN file data.
- file_name = first part of file link name on CRKN website
- file_date = date and version number of file link name on the CRKN website

Table 2: local_file_names: (file_name, file_date)

- A collection of all the tables that contain local file data uploaded by the user.
 - NOTE: Does not include "local_" that is at the beginning of the actual tables
 - file_name = entire file name that is uploaded (without the extension)
 - file_date = the actual date that the file was uploaded to the database

Other Tables:

- All other tables are tables listed in the two tables above
 - For CRKN_file_names - direct references (file_name)
 - For local_file_names - "local_" + file_name

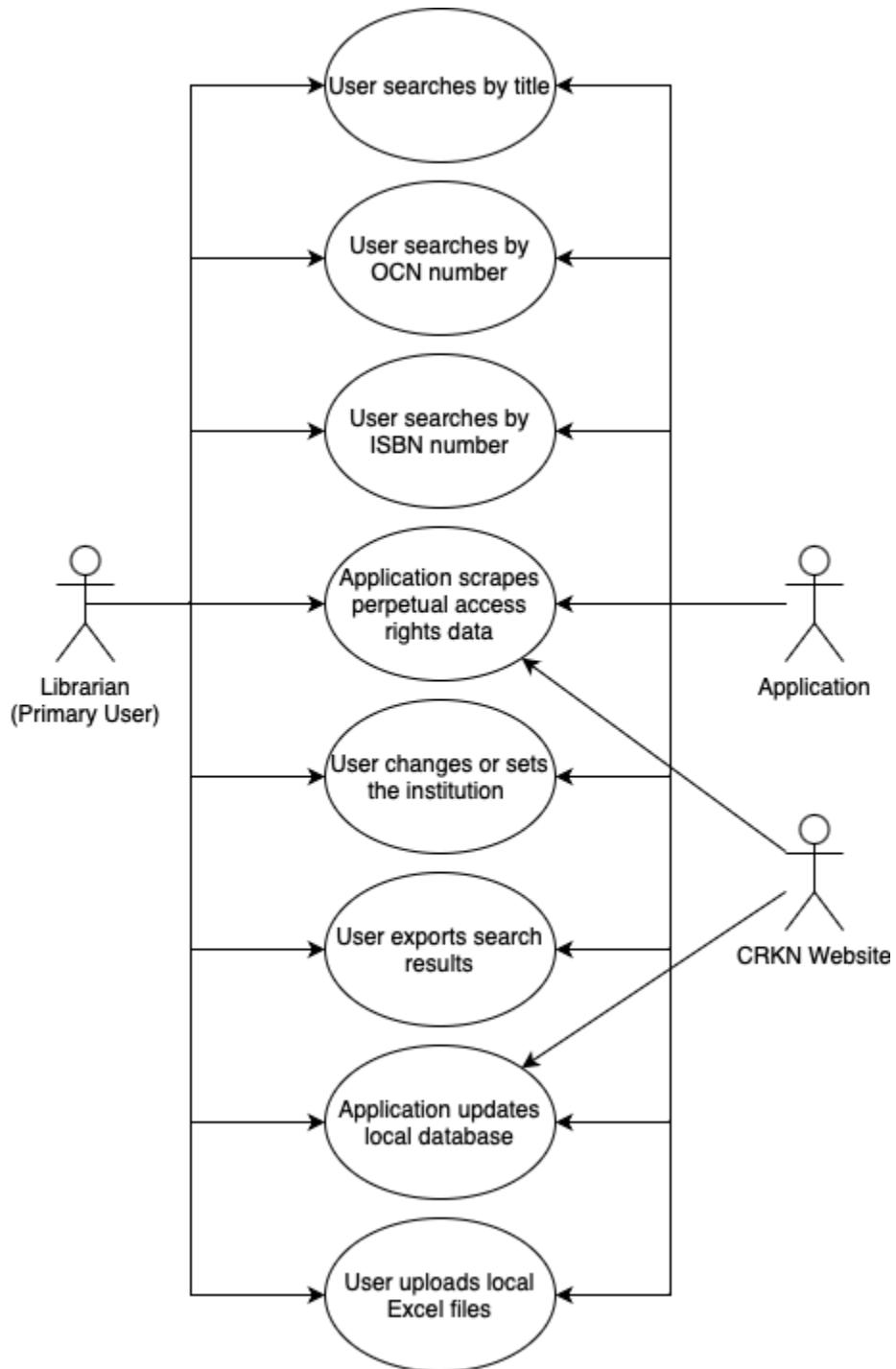
```
sqlite> .tables
CRKN_file_names
Proquest
TaylorFrancis
local_UPEI_Ebooks_local_correct_sample1
local_UPEI_Ebooks_local_correct_sample_intl
local_file_names
```

```
sqlite> select * from local_file_names;
UPEI_Ebooks_local_correct_sample1|2024_03_26
UPEI_Ebooks_local_correct_sample_intl|2024_03_26
```

```
sqlite> select * from CRKN_file_names;  
TaylorFrancis|2024_02_06_2  
Proquest|2024_02_06_3
```

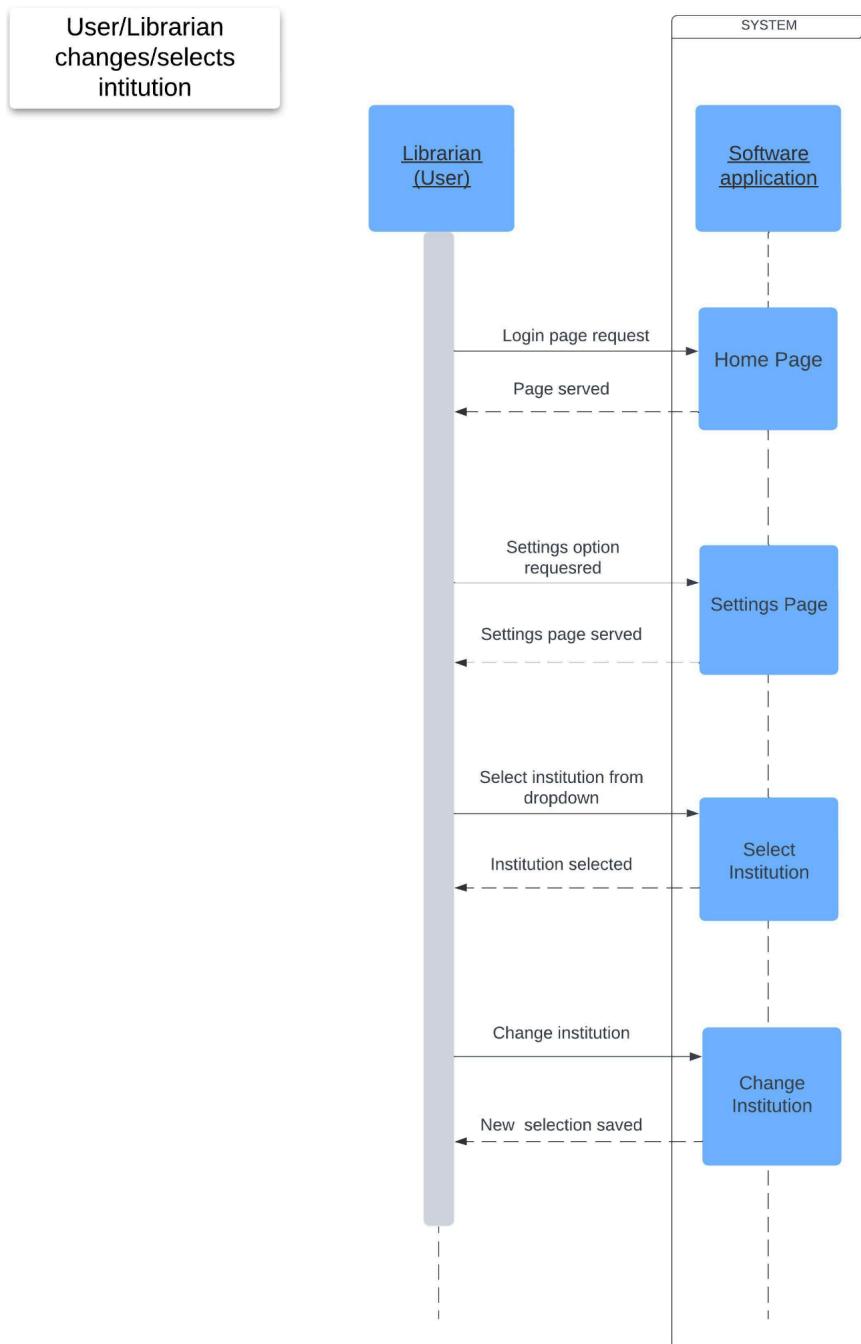
3.2 DATA FLOW DIAGRAMS

- USE CASE DIAGRAM

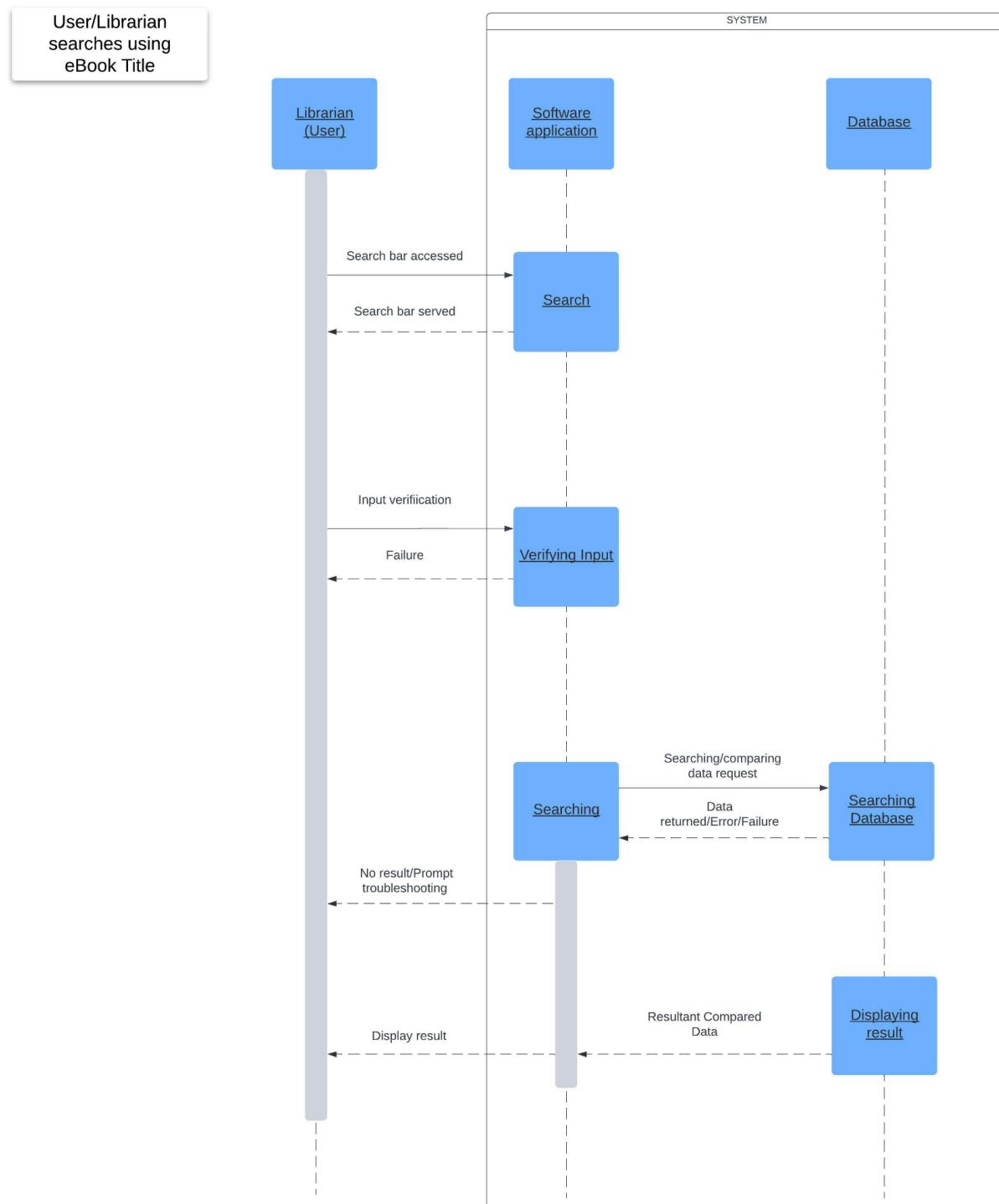


3.2 SEQUENCE DIAGRAMS

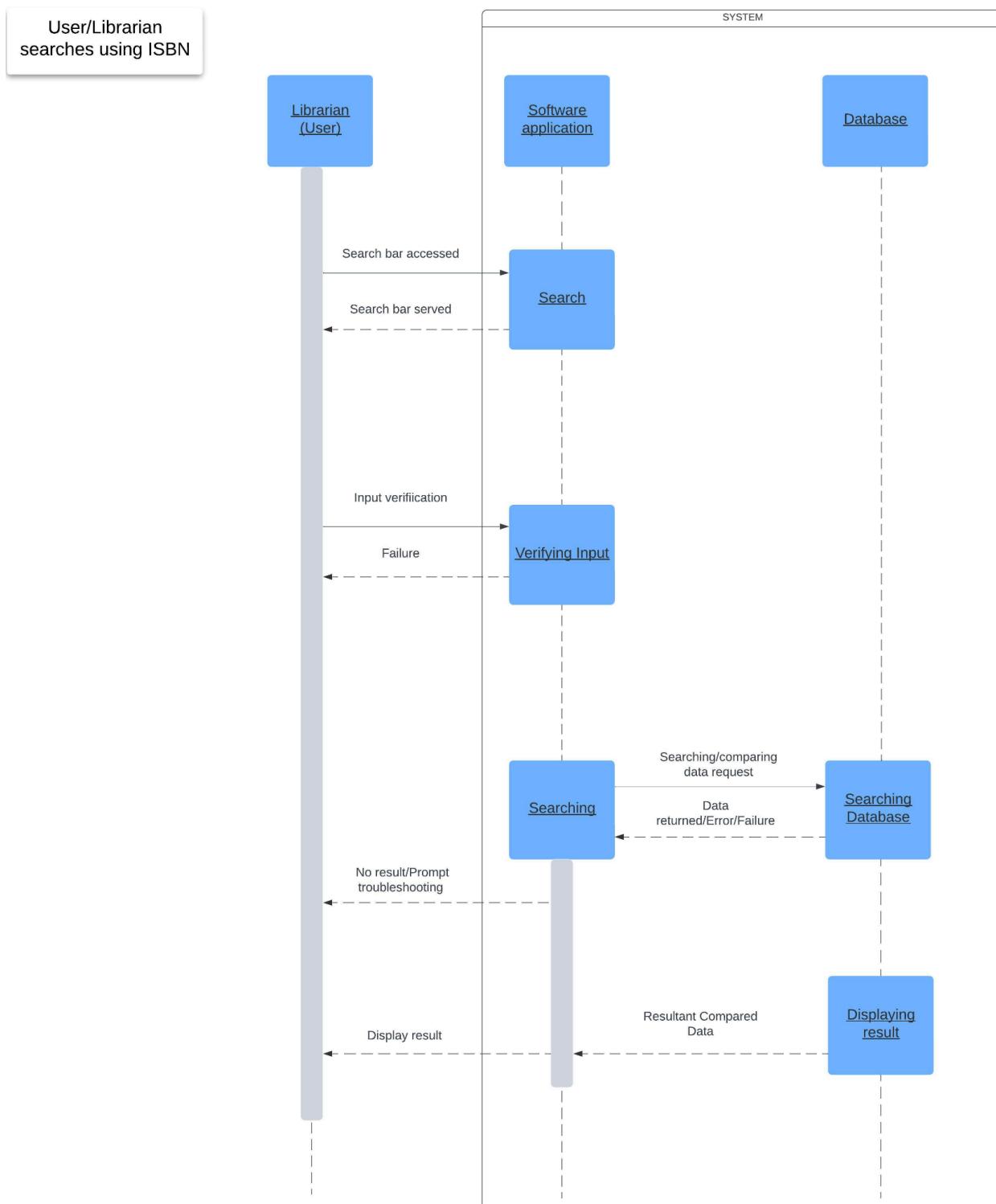
User changes or sets the institution



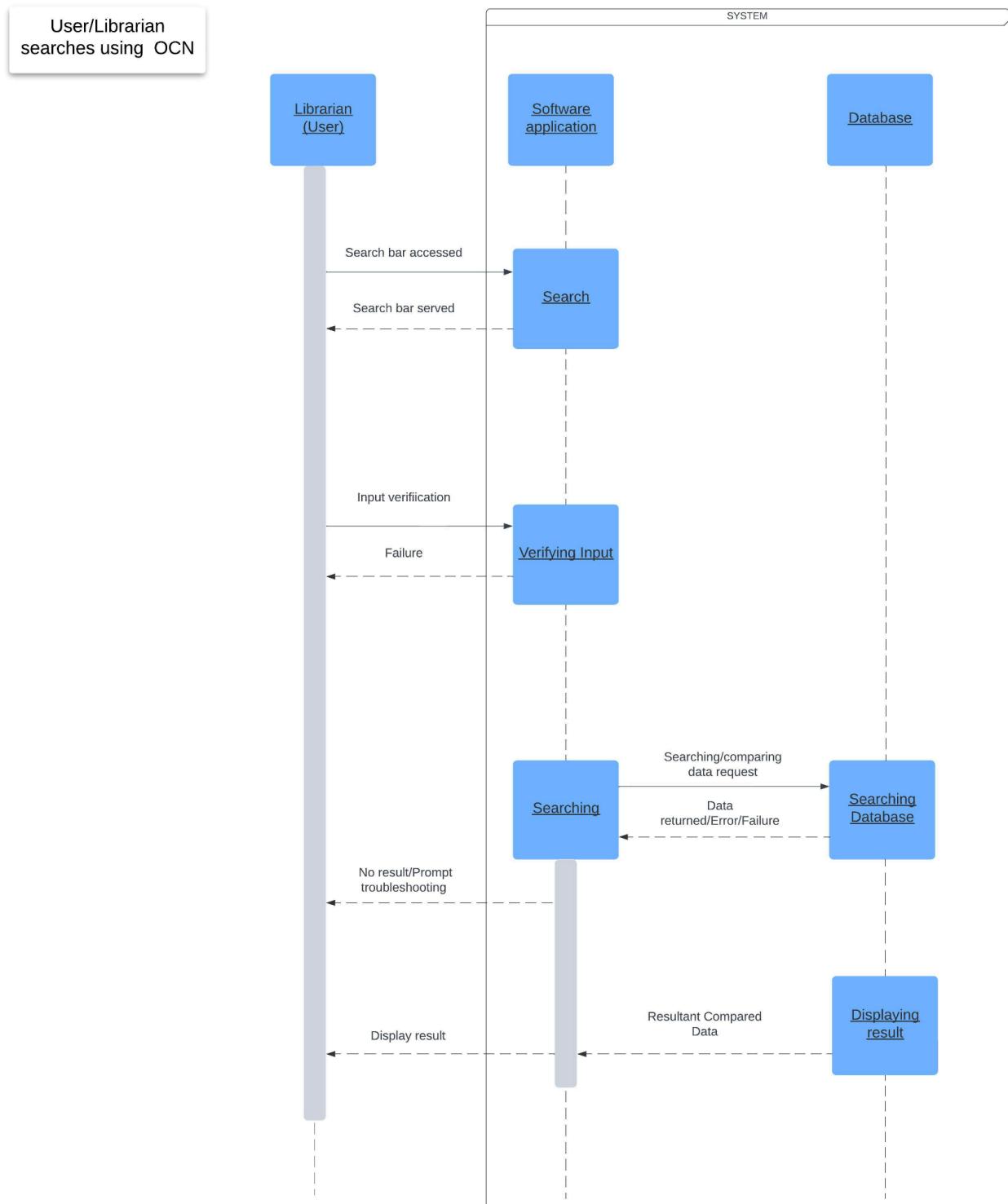
User searches by title (with optional partial search)



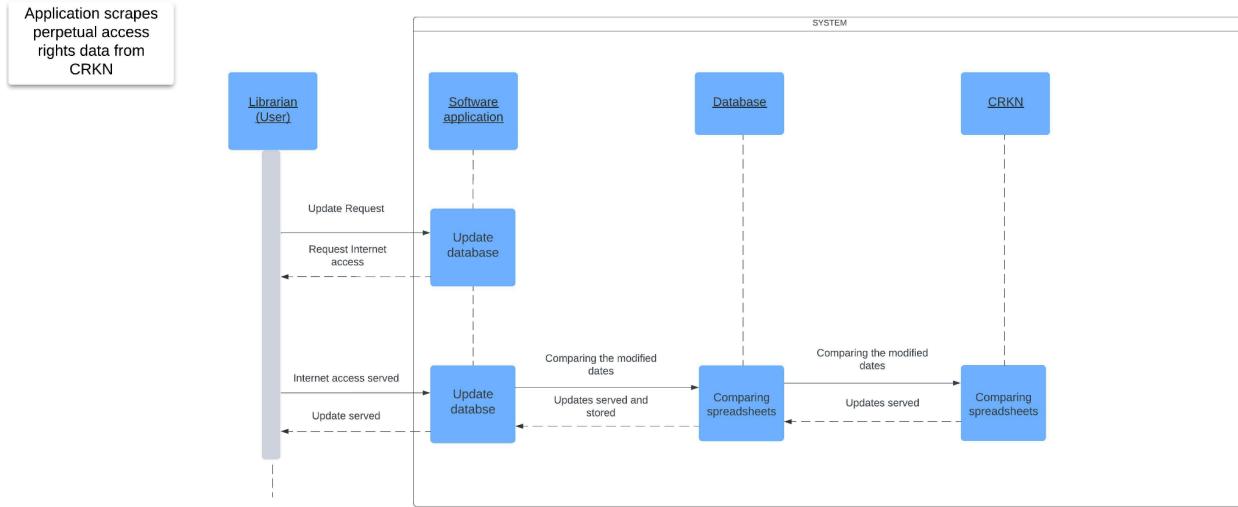
User searches by ISBN number



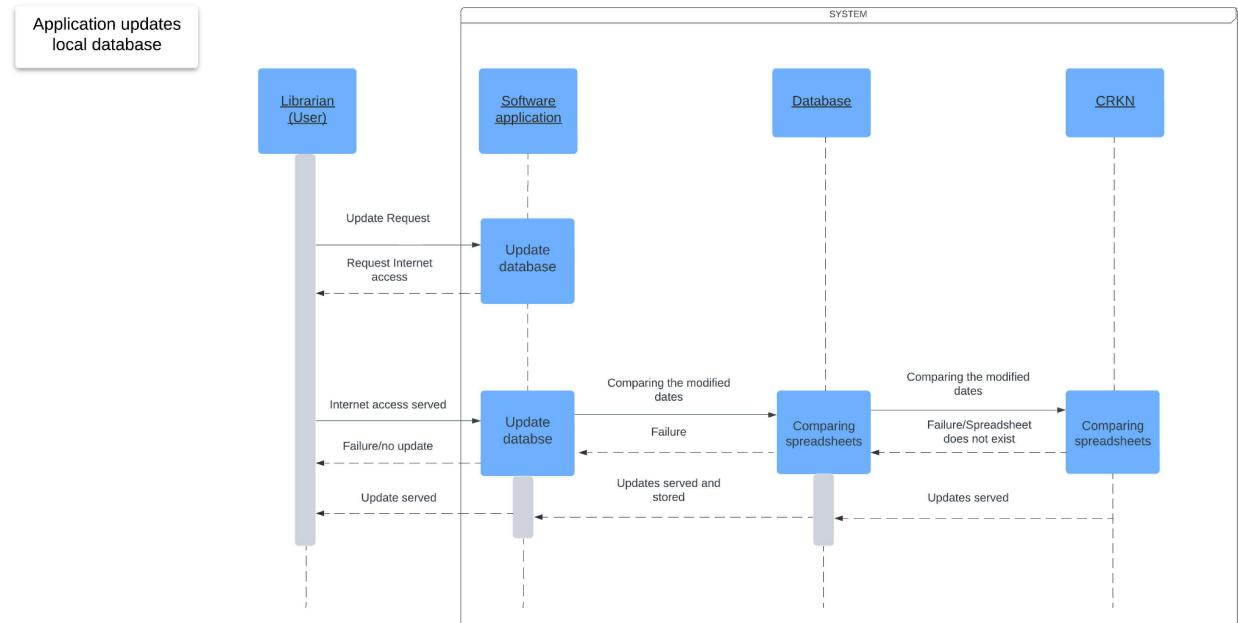
User searches by OCN number



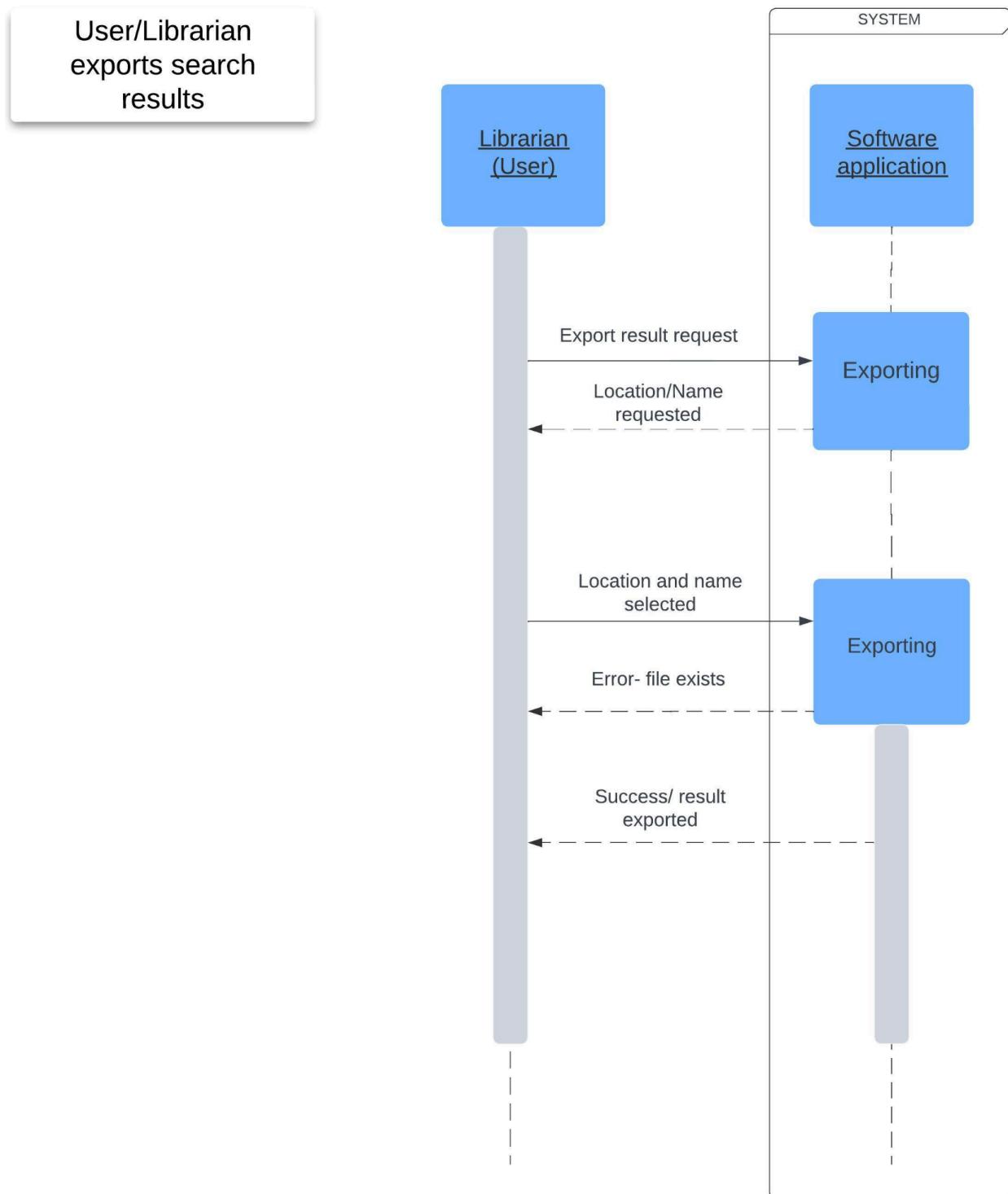
Application scrapes perpetual access rights data



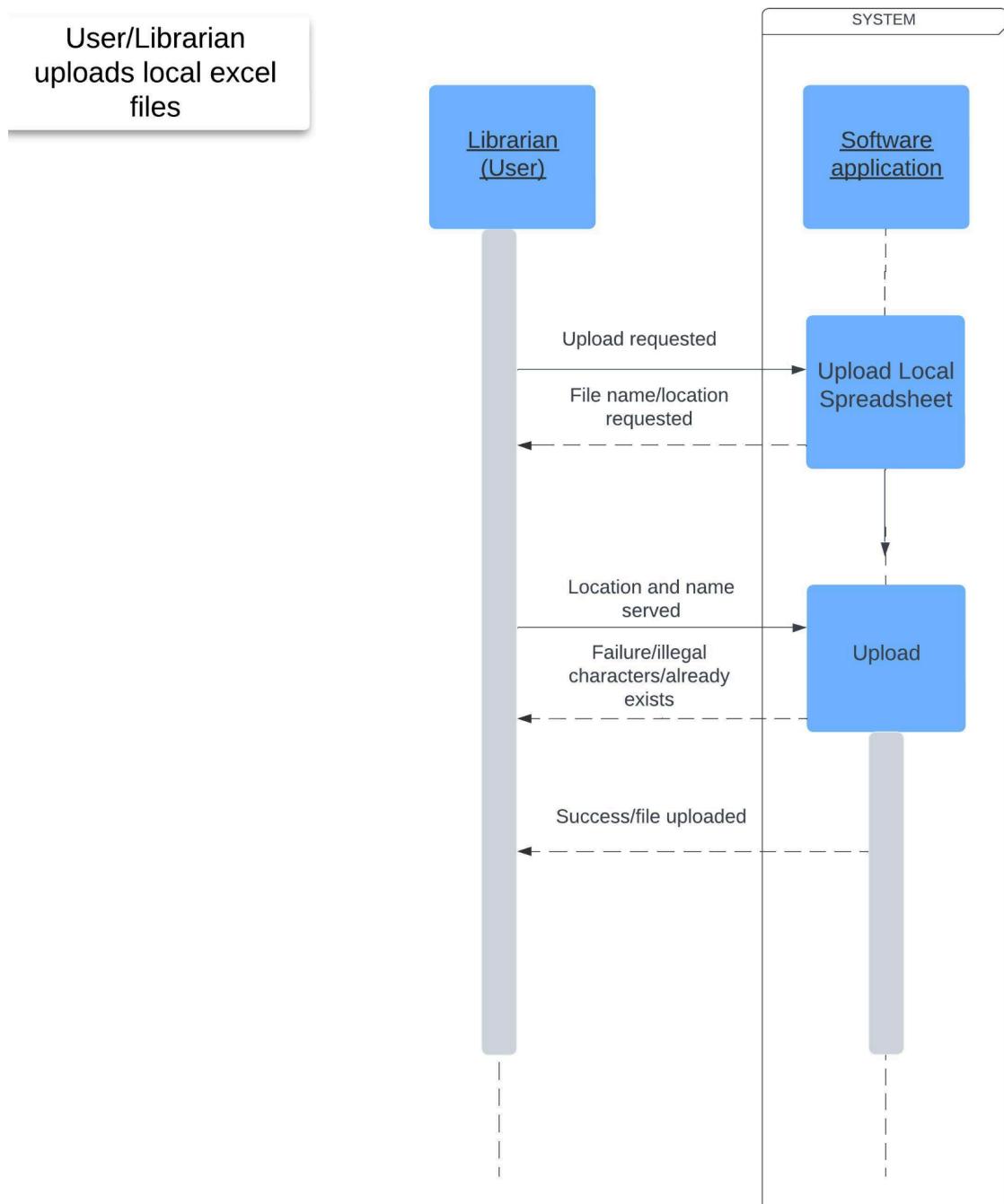
Application updates local database



User exports search results



User uploads local ebook data files



3. System Implementation

4.1 MODULE DESCRIPTION

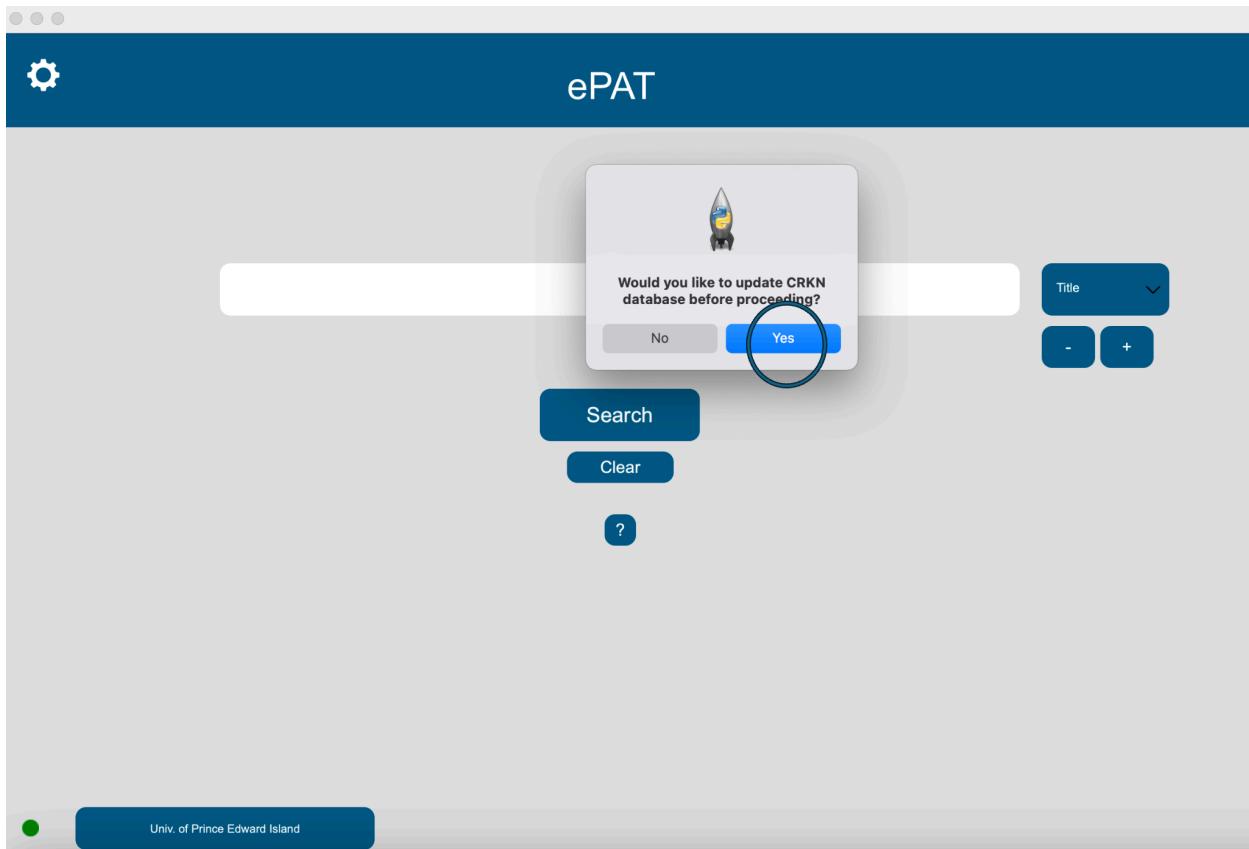
The ePAT (eBook Perpetual Access Rights Tracking) application is divided into three major modules, namely:

1. The home page: This is the first page and main screen which is displayed when the application starts. It contains the primary search functionality with the logo “ePAT” at the top of the page.
2. The Settings page: This is the page linked to the main screen via the gear icon to the top left of the home page. This page helps the user manage all aspects of the application. They can select or change their institution and language. They can modify the URL for the location of the ebook data files on the CRKN website, as well as the URL for the help page on the project’s repository. They can also manage their list of local institutions and local files. Finally, in the top right corner, they can update the CRKN data, upload their own local files, and choose to turn off the CRKN functionality.
3. The Results page: This page displays the results of the user's desired search based on the ebook's title or its eISBN or OCN. The results are displayed in a tabular format, which can also be exported to the user's computer as a TSV file. The page is connected to the main screen with a Home button to the top left of the page.

4.2 Screenshots

1. THE HOME PAGE:

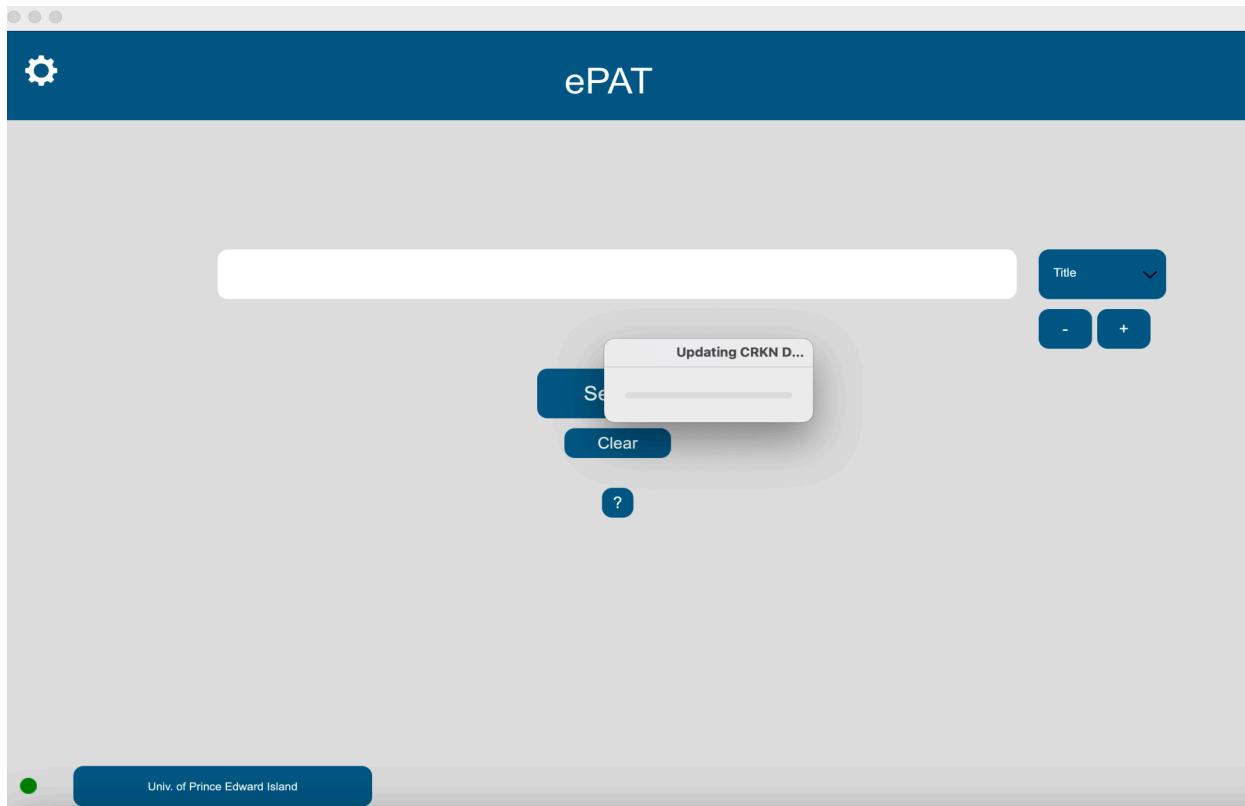
The first look we get is of the Home page, which opens up with asking a question to update the CRKN eBook data files in the local database.



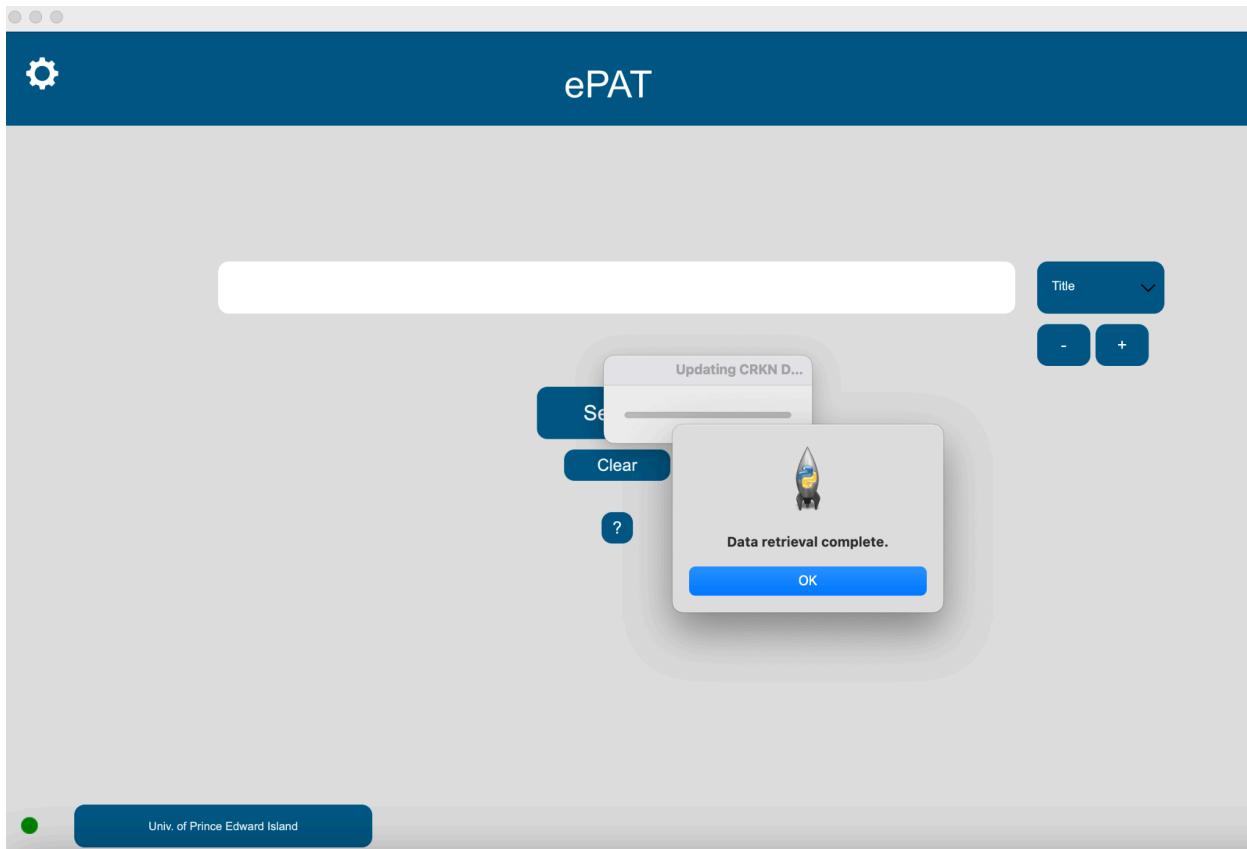
A pop-up displays the progress of the update once the ‘YES’ is selected.

The user can choose to update the local database or not.

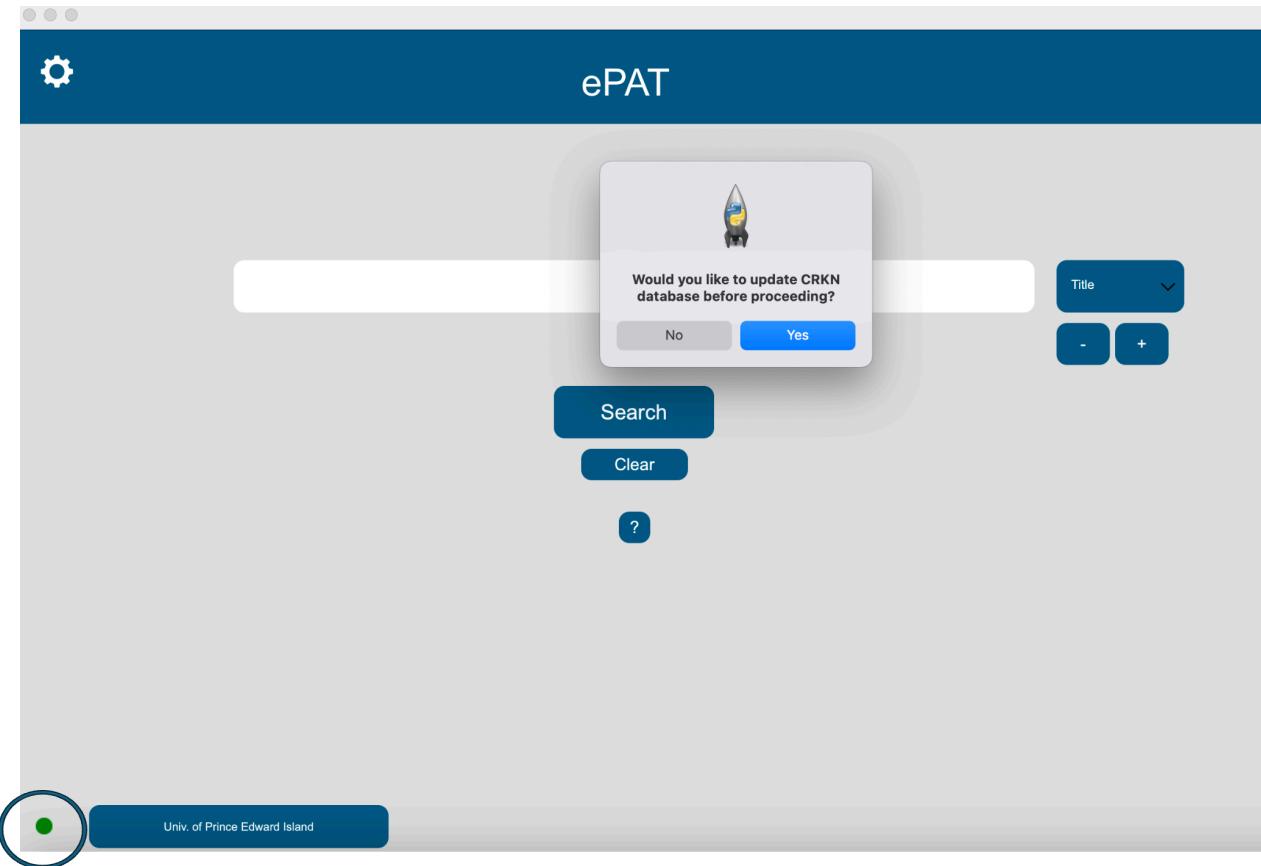
If the user selects ‘Yes,’ the application will start retrieving data.



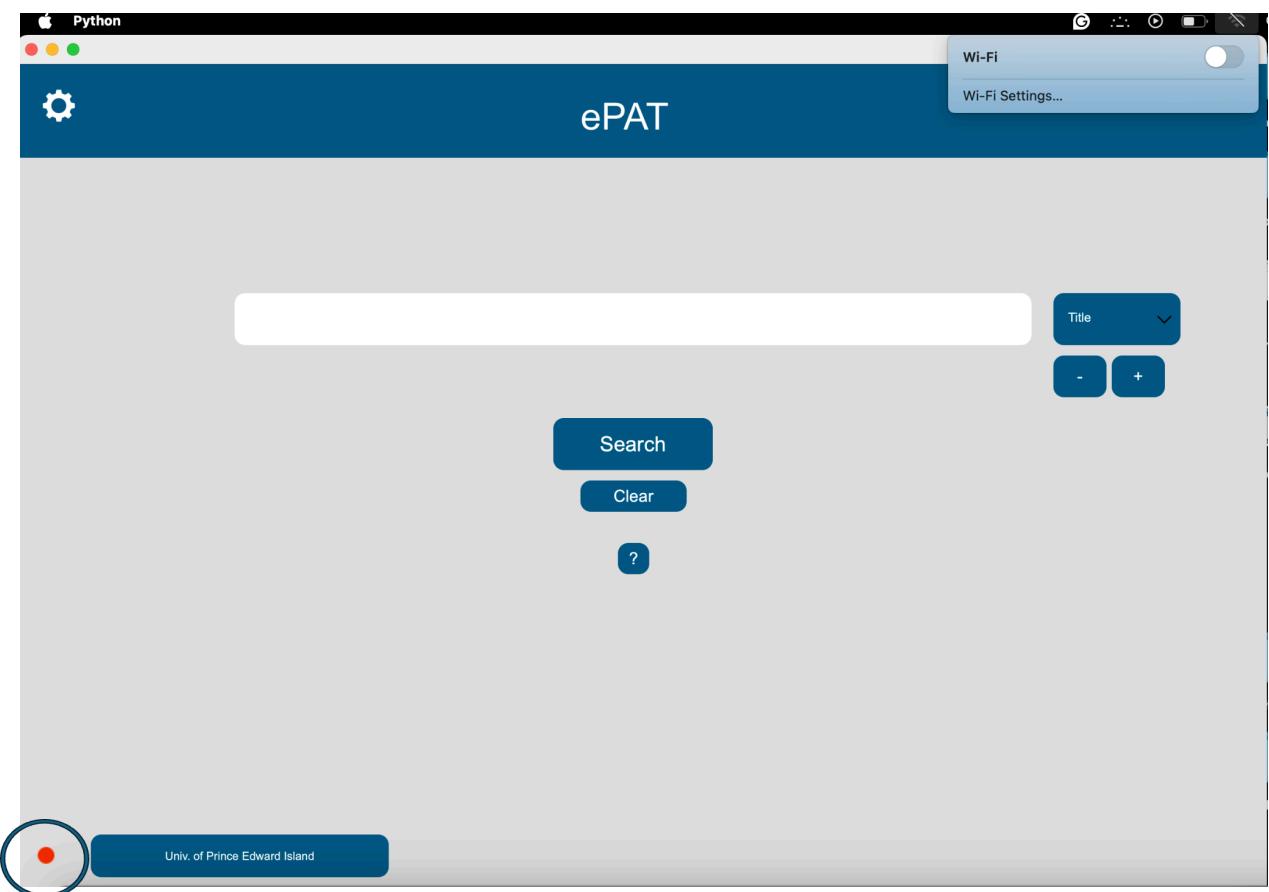
Once the update has been completed, another pop-up will appear, notifying the user of the update being completed.



Hit the 'OK' to get to the main screen of the home Page.

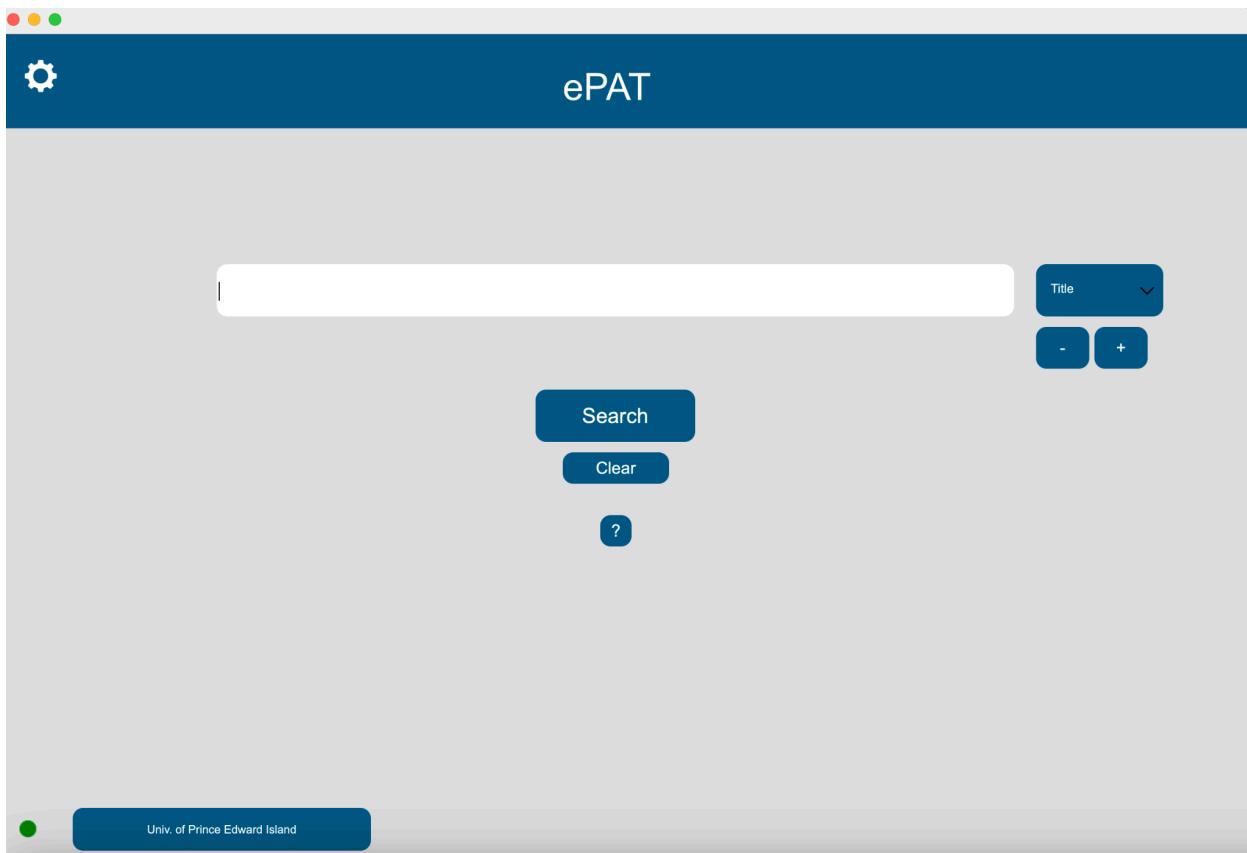


The green button on the bottom of the page notifies the user of an active internet connection. Internet connection is needed when the user would like to update the CRKN files in the database, which are retrieved from the CRKN website online.

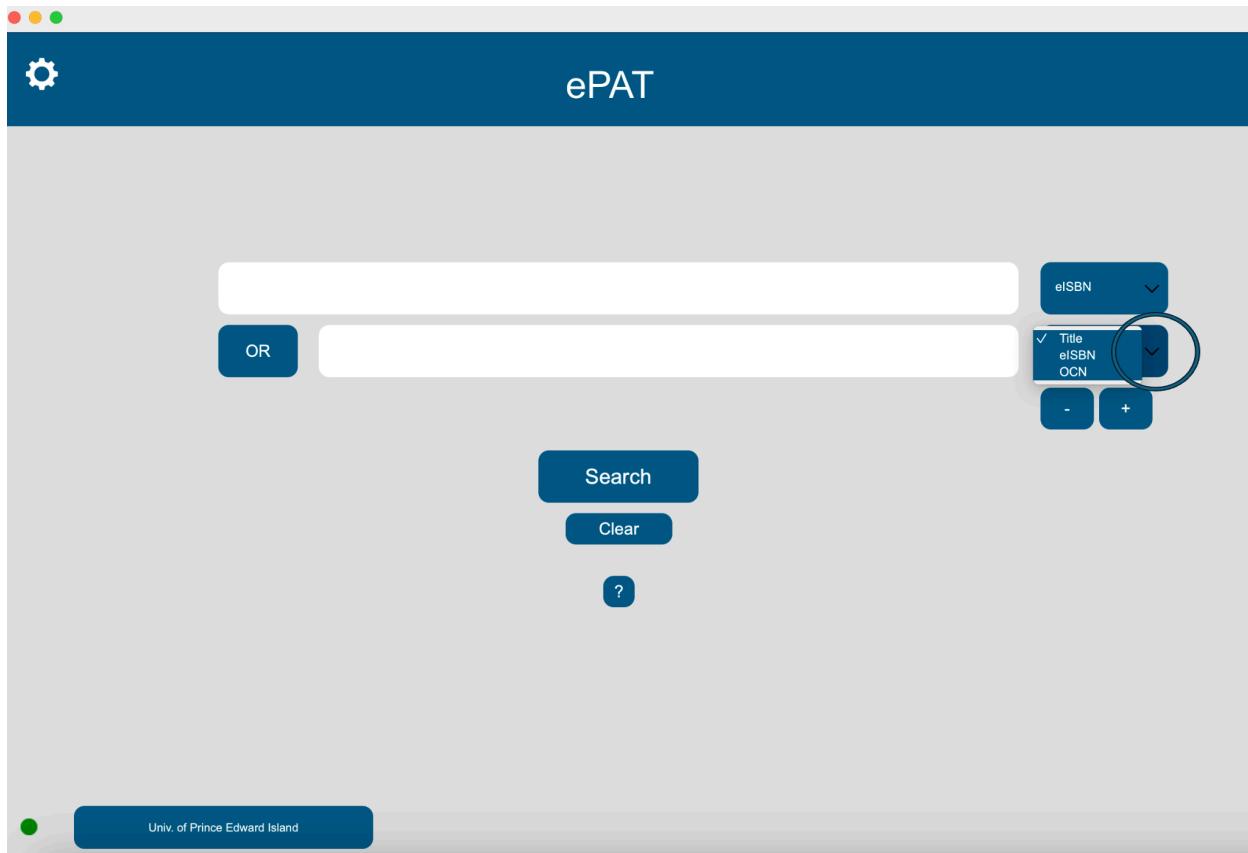


The green button turns red as soon as the internet connection is lost.

THE SEARCH FUNCTIONALITY:



The main screen has a default of one search bar in the middle of the page.

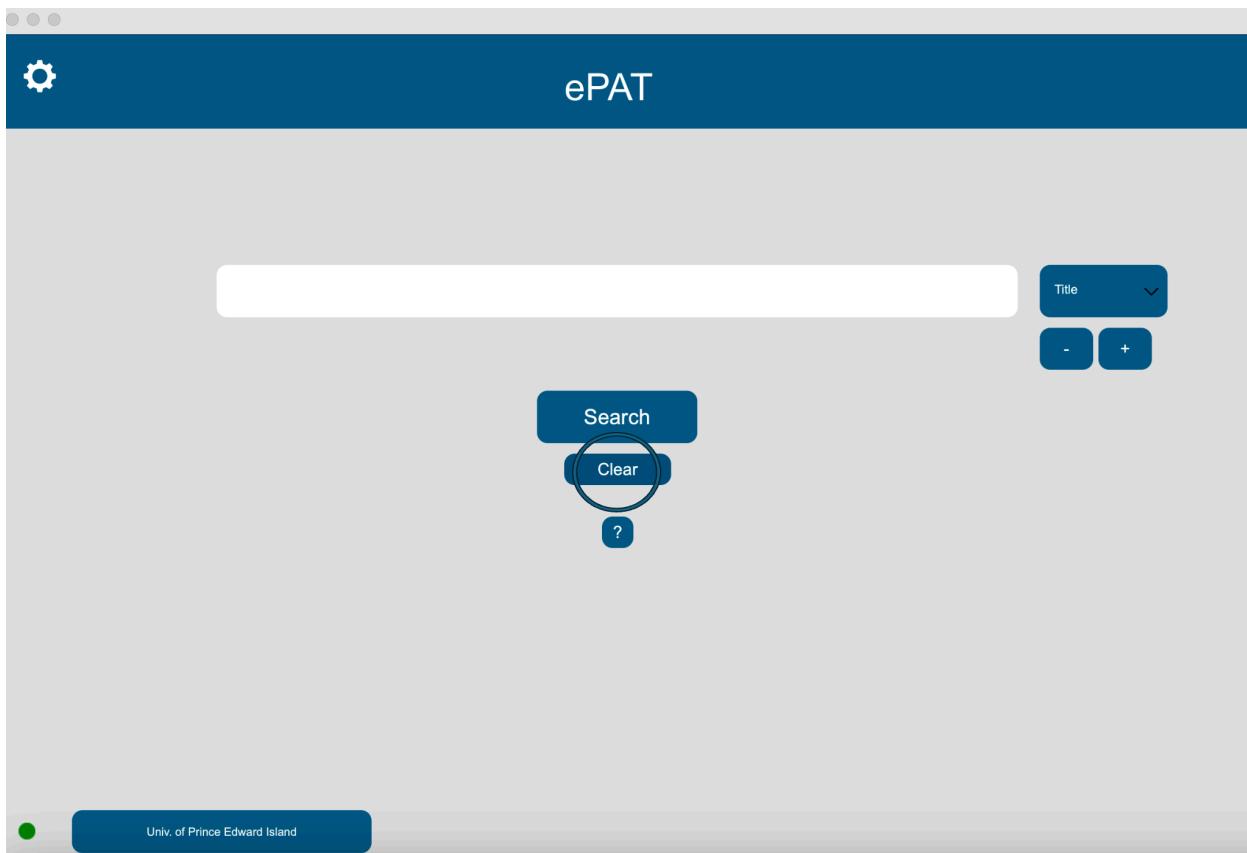


To the right is a drop-down list of ways to perform a search, i.e., via Title, eISBN and OCN.

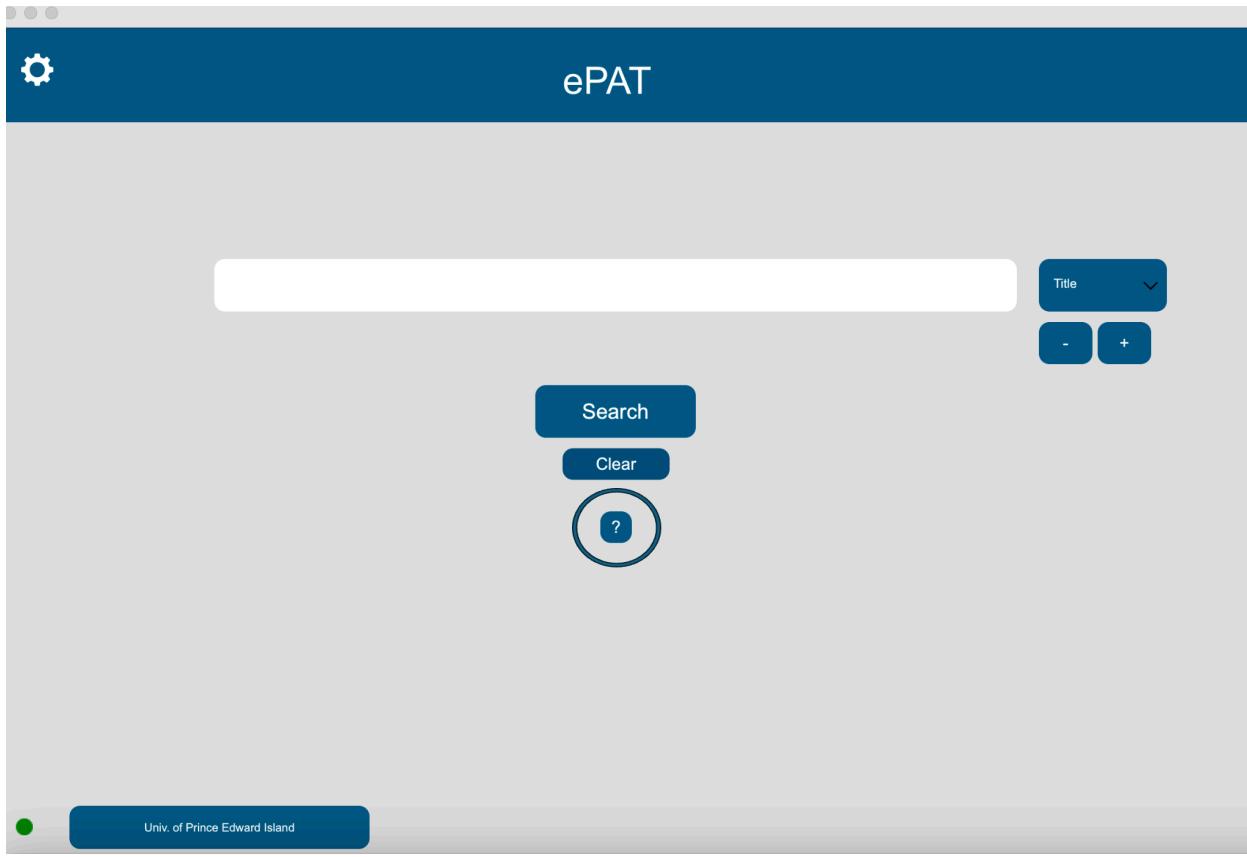
The screenshot shows the ePAT search interface. The search bar contains the query: `*war*` OR `*ages*`. To the right of the second search term, there are three dropdown menus labeled "Title" with arrows pointing down. Below these dropdowns are two blue buttons: a minus sign (-) and a plus sign (+). The minus sign button is circled in blue. At the bottom of the interface are "Search", "Clear", and "?" buttons.

This screenshot shows the same ePAT search interface as the previous one, but the minus sign button has been clicked. The minus sign button is now grayed out, indicating it has been selected. The other elements of the interface remain the same: the search bar with the query `*war*` OR `*ages*`, the three "Title" dropdown menus, the plus sign button, and the "Search", "Clear", and "?" buttons at the bottom.

At the bottom of the drop-down, to select the type of search to be performed are the ‘+’ and ‘-’ buttons, which are used to add or delete search bars.



The ‘clear’ button sets the page to the default settings, i.e., One search bar present on the screen with ‘title’ selected as the default search-type.



Home

eppeney edited this page 3 days ago · 11 revisions

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Introduction

Welcome to the eBook Perpetual Access Rights Tracker! This application serves as a comprehensive tool for managing and navigating eBook perpetual access rights. The application features many convenient options related to local data management, exporting, and configuring settings tailored to your preferences. Whether you're a user seeking specific eBook information or an administrator managing files and settings, this guide will assist you in maximizing the utility of the app.

Using the App

Performing a Search

Click to learn more about how to perform searches, including multiple text fields, searching by title, eISBN, and OCN, and special characters.

Exporting Results

Click to learn more about how to export your search results.

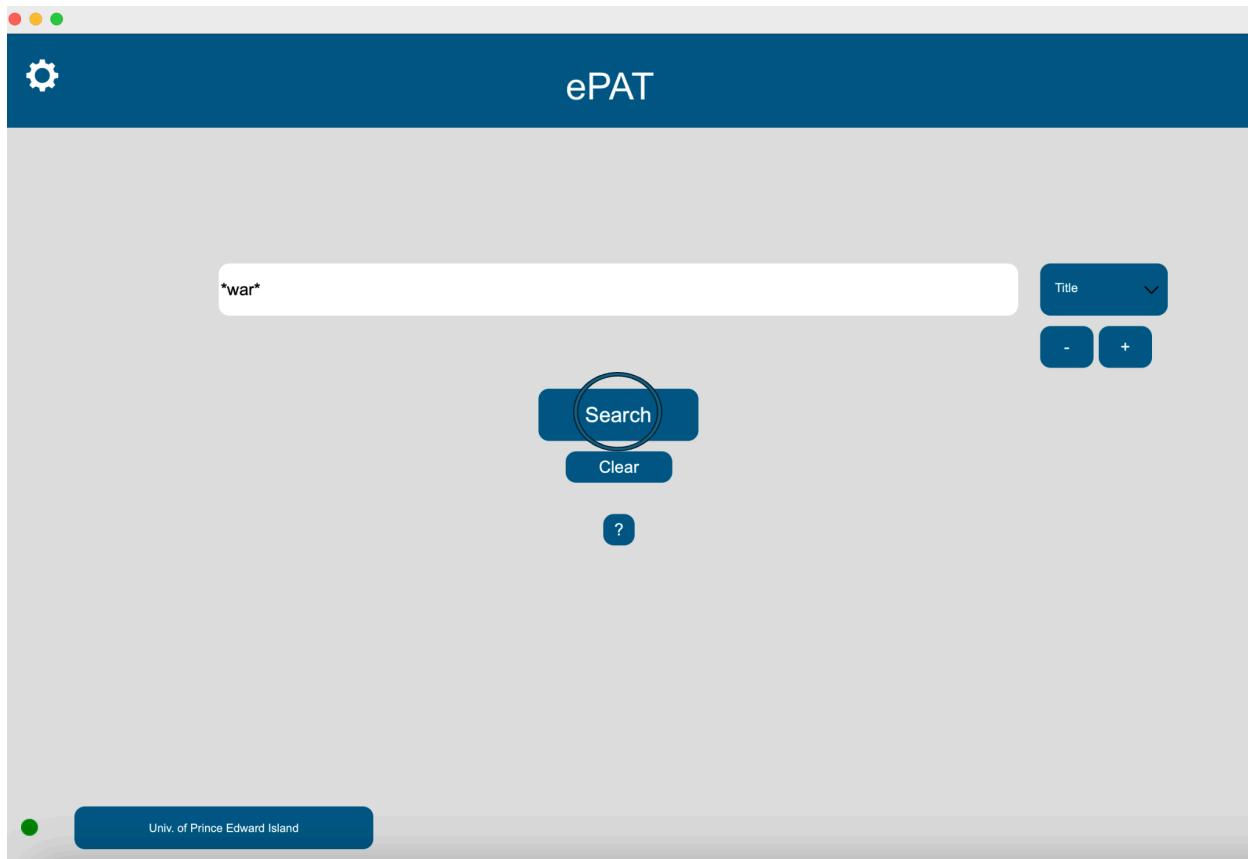
Uploading Files

Click to learn more about how to upload your own files to the database, how to manage local files, and how to manage custom institutions.

Pages (3)
<input type="text" value="Find a page..."/>
▼ Home
Introduction
Using the App
Performing a Search
Exporting Results
Uploading Files
Settings
Resources
End-user Documentation
Technical Documentation
▼ Credits
▼ Help - Exporting
▼ Help - Performing a Search
▼ Help - Settings
▼ Help - Uploading Local Files

Clicking the '?' button under the Clear button takes the user to the GitHub repository for any help needed.

2. THE RESULTS PAGE



Once the user enters the search they would like to perform, They can select the ‘Search’ button below the search bar or hit ‘Enter’ on their keyboard.

ePAT

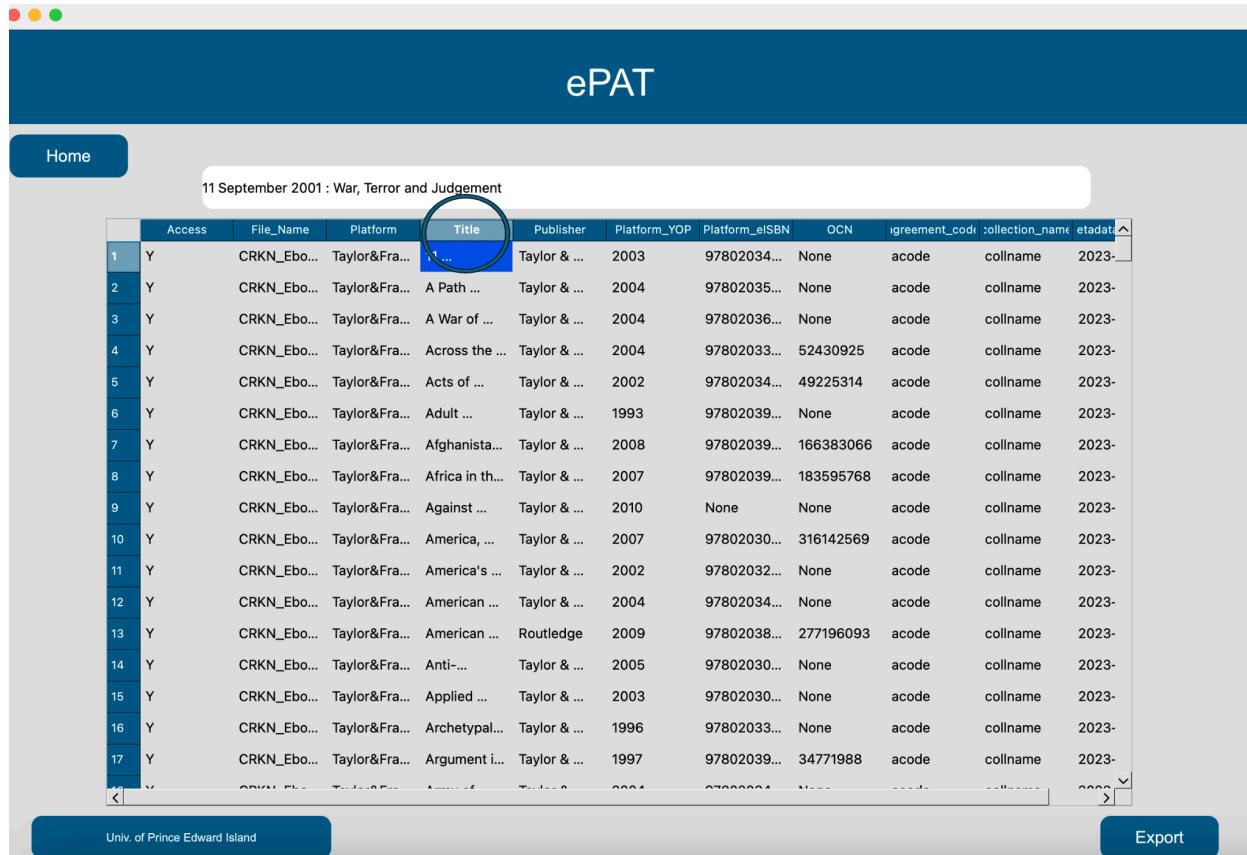
Home

	Access	File_Name	Platform	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	agreement_code	collection_name	etadate
1	Y	CRKN_Ebo...	Taylor&Fra...	11 ...	Taylor & ...	2003	97802034...	None	acode	collname	2023-
2	Y	CRKN_Ebo...	Taylor&Fra...	A Path ...	Taylor & ...	2004	97802035...	None	acode	collname	2023-
3	Y	CRKN_Ebo...	Taylor&Fra...	A War of ...	Taylor & ...	2004	97802036...	None	acode	collname	2023-
4	Y	CRKN_Ebo...	Taylor&Fra...	Across the ...	Taylor & ...	2004	97802033...	52430925	acode	collname	2023-
5	Y	CRKN_Ebo...	Taylor&Fra...	Acts of ...	Taylor & ...	2002	97802034...	49225314	acode	collname	2023-
6	Y	CRKN_Ebo...	Taylor&Fra...	Adult ...	Taylor & ...	1993	97802039...	None	acode	collname	2023-
7	Y	CRKN_Ebo...	Taylor&Fra...	Afghanista...	Taylor & ...	2008	97802039...	166383066	acode	collname	2023-
8	Y	CRKN_Ebo...	Taylor&Fra...	Africa in th...	Taylor & ...	2007	97802039...	183595768	acode	collname	2023-
9	Y	CRKN_Ebo...	Taylor&Fra...	Against ...	Taylor & ...	2010	None	None	acode	collname	2023-
10	Y	CRKN_Ebo...	Taylor&Fra...	America, ...	Taylor & ...	2007	97802030...	316142569	acode	collname	2023-
11	Y	CRKN_Ebo...	Taylor&Fra...	America's ...	Taylor & ...	2002	97802032...	None	acode	collname	2023-
12	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
13	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Routledge	2009	97802038...	277196093	acode	collname	2023-
14	Y	CRKN_Ebo...	Taylor&Fra...	Anti-...	Taylor & ...	2005	97802030...	None	acode	collname	2023-
15	Y	CRKN_Ebo...	Taylor&Fra...	Applied ...	Taylor & ...	2003	97802030...	None	acode	collname	2023-
16	Y	CRKN_Ebo...	Taylor&Fra...	Archetypal...	Taylor & ...	1996	97802033...	None	acode	collname	2023-
17	Y	CRKN_Ebo...	Taylor&Fra...	Argument i...	Taylor & ...	1997	97802039...	34771988	acode	collname	2023-

Univ. of Prince Edward Island

Export

Once the search is complete, the Results page, with the results displayed in a tabular format will appear. The first column displays whether the eBook for the institution (named at the bottom left) with a 'Y' or 'N' stating Y for yes and N for no to having access rights.



The screenshot shows a web-based application titled "ePAT". At the top, there's a dark blue header bar with the "ePAT" logo. Below it, a navigation bar has a "Home" button. A white callout box contains the text "11 September 2001 : War, Terror and Judgement". The main content area is a table with 17 rows and 12 columns. The columns are labeled: Access, File_Name, Platform, Title, Publisher, Platform_YOP, Platform_eISBN, OCN, Agreement_code, Collection_name, and Metadata. The "Title" column header is highlighted with a blue circle. The first row of the table contains the value "11 September 2001 : War, Terror and Judgement". The bottom of the page features a footer with "Univ. of Prince Edward Island" and an "Export" button.

	Access	File_Name	Platform	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	Agreement_code	Collection_name	Metadata
1	Y	CRKN_Ebo...	Taylor&Fra...	11 September 2001 : War, Terror and Judgement	Taylor & ...	2003	97802034...	None	acode	collname	2023-
2	Y	CRKN_Ebo...	Taylor&Fra...	A Path ...	Taylor & ...	2004	97802035...	None	acode	collname	2023-
3	Y	CRKN_Ebo...	Taylor&Fra...	A War of ...	Taylor & ...	2004	97802036...	None	acode	collname	2023-
4	Y	CRKN_Ebo...	Taylor&Fra...	Across the ...	Taylor & ...	2004	97802033...	52430925	acode	collname	2023-
5	Y	CRKN_Ebo...	Taylor&Fra...	Acts of ...	Taylor & ...	2002	97802034...	49225314	acode	collname	2023-
6	Y	CRKN_Ebo...	Taylor&Fra...	Adult ...	Taylor & ...	1993	97802039...	None	acode	collname	2023-
7	Y	CRKN_Ebo...	Taylor&Fra...	Afghanista...	Taylor & ...	2008	97802039...	166383066	acode	collname	2023-
8	Y	CRKN_Ebo...	Taylor&Fra...	Africa in th...	Taylor & ...	2007	97802039...	183595768	acode	collname	2023-
9	Y	CRKN_Ebo...	Taylor&Fra...	Against ...	Taylor & ...	2010	None	None	acode	collname	2023-
10	Y	CRKN_Ebo...	Taylor&Fra...	America, ...	Taylor & ...	2007	97802030...	316142569	acode	collname	2023-
11	Y	CRKN_Ebo...	Taylor&Fra...	America's ...	Taylor & ...	2002	97802032...	None	acode	collname	2023-
12	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
13	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Routledge	2009	97802038...	277196093	acode	collname	2023-
14	Y	CRKN_Ebo...	Taylor&Fra...	Anti-...	Taylor & ...	2005	97802030...	None	acode	collname	2023-
15	Y	CRKN_Ebo...	Taylor&Fra...	Applied ...	Taylor & ...	2003	97802030...	None	acode	collname	2023-
16	Y	CRKN_Ebo...	Taylor&Fra...	Archetypal...	Taylor & ...	1996	97802033...	None	acode	collname	2023-
17	Y	CRKN_Ebo...	Taylor&Fra...	Argument i...	Taylor & ...	1997	97802039...	34771988	acode	collname	2023-

To view any specific field of the table, users can select any cell in the table and its contents will appear in the white box at the top of the screen.

ePAT

Home

11 September 2001 : War, Terror and Judgement

	Access	File_Name	Platform	Title	Publisher
1	Y	CRKN_Ebo...	Taylor&Fra...	11 September 2001 : War, Terror and Judgement	Taylor & ...
2	Y	CRKN_Ebo...	Taylor&Fra...	A Path Toward Gender Equality : State Feminism in Japan	Taylor & ...
3	Y	CRKN_Ebo...	Taylor&Fra...	A War of Words : Political Violence and Public Debate in Israel	Taylor & ...
4	Y	CRKN_Ebo...	Taylor&Fra...	Across the Blocs : Exploring Comparative Cold War Cultural and Social History	Taylor & ...
5	Y	CRKN_Ebo...	Taylor&Fra...	Acts of Rebellion : The Ward Churchill Reader	Taylor & ...
6	Y	CRKN_Ebo...	Taylor&Fra...	Adult Education and the State : Towards a Politics of Adult Education	Taylor & ...
7	Y	CRKN_Ebo...	Taylor&Fra...	Afghanistan, Arms and Conflict : Armed Groups, Disarmament and Security in a Post-War Society	Taylor & ...
8	Y	CRKN_Ebo...	Taylor&Fra...	Africa in the 21st Century : Toward a New Future	Taylor & ...
9	Y	CRKN_Ebo...	Taylor&Fra...	Against Common Sense : Teaching and Learning Toward Social Justice	Taylor & ...
10	Y	CRKN_Ebo...	Taylor&Fra...	America, War and Power : Defining the State, 1775-2005	Taylor & ...
11	Y	CRKN_Ebo...	Taylor&Fra...	America's Trade Policy Towards Japan : Demanding Results	Taylor & ...
12	Y	CRKN_Ebo...	Taylor&Fra...	American Intelligence in War-time London : The Story of the OSS	Taylor & ...
13	Y	CRKN_Ebo...	Taylor&Fra...	American Women During World War II : An Encyclopedia	Routledge
14	Y	CRKN_Ebo...	Taylor&Fra...	Anti-Submarine Warfare in World War I : British Naval Aviation and the Defeat of the U-Boats	Taylor & ...
15	Y	CRKN_Ebo...	Taylor&Fra...	Applied Studies Towards a Sociology of Language	Taylor & ...
16	Y	CRKN_Ebo...	Taylor&Fra...	Archetypal Explorations : Towards an Archetypal Sociology	Taylor & ...
17	Y	CRKN_Ebo...	Taylor&Fra...	Argument in the Greenhouse : The International Economics of Controlling Global Warming	Taylor & ...

Univ. of Prince Edward Island

Export

The user can also resize any column by dragging it on the screen.

ePAT

Home

The screenshot shows a web-based application titled "ePAT". At the top, there's a dark blue header bar with the title "ePAT" in white. Below it, a light gray navigation bar contains a "Home" button. The main content area is a table with 18 columns and approximately 58 rows of data. The columns are labeled: Access, File_Name, Platform, Title, Publisher, Platform_YOP, Platform_eISBN, OCN, Agreement_code, Collection_name, and Metadata. The first column is numbered from 41 to 58. The last two columns contain dropdown menus with the value "2023". A horizontal scroll bar is visible at the bottom of the table, and a vertical scroll bar is on the right side. At the bottom of the page, there are two buttons: "Univ. of Prince Edward Island" on the left and "Export" on the right.

	Access	File_Name	Platform	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	Agreement_code	Collection_name	Metadata
	Y	CRKN_Ebo...	Taylor&Fra...	Changing ...	Taylor & ...	2000	97802039...	1037776887	acode	collname	2023-
41	Y	CRKN_Ebo...	Taylor&Fra...	Changing ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
42	Y	CRKN_Ebo...	Taylor&Fra...	China and ...	Taylor & ...	2003	97802034...	50684636	acode	collname	2023-
43	Y	CRKN_Ebo...	Taylor&Fra...	China in W...	Taylor & ...	2005	97802030...	56672155	acode	collname	2023-
44	Y	CRKN_Ebo...	Taylor&Fra...	China's ...	Taylor & ...	1989	97802031...	18681333	acode	collname	2023-
45	Y	CRKN_Ebo...	Taylor&Fra...	China's Wa...	Taylor & ...	2007	97802039...	138341185	acode	collname	2023-
46	Y	CRKN_Ebo...	Taylor&Fra...	China's Wa...	Taylor & ...	2007	97802039...	138341185	acode	collname	2023-
47	Y	CRKN_Ebo...	Taylor&Fra...	Chinese ...	Taylor & ...	2014	97802034...	52166131	acode	collname	2023-
48	Y	CRKN_Ebo...	Taylor&Fra...	Churchill, ...	Taylor & ...	2008	97802038...	191090235	acode	collname	2023-
49	Y	CRKN_Ebo...	Taylor&Fra...	Cinema an...	Routledge	1997	97802039...	37498536	acode	collname	2023-
50	Y	CRKN_Ebo...	Taylor&Fra...	Citizenship...	Taylor & ...	2002	97802031...	None	acode	collname	2023-
51	Y	CRKN_Ebo...	Taylor&Fra...	Citizenship...	Taylor & ...	2001	97802034...	None	acode	collname	2023-
52	Y	CRKN_Ebo...	Taylor&Fra...	Cold War ...	Taylor & ...	2006	97802039...	65400461	acode	collname	2023-
53	Y	CRKN_Ebo...	Taylor&Fra...	Cold War i...	Taylor & ...	2009	97802038...	299281553	acode	collname	2023-
54	Y	CRKN_Ebo...	Taylor&Fra...	Cold War ...	Taylor & ...	2005	97802036...	58386488	acode	collname	2023-
55	Y	CRKN_Ebo...	Taylor&Fra...	Come on ...	Taylor & ...	1992	97802034...	252879860	acode	collname	2023-
56	Y	CRKN_Ebo...	Taylor&Fra...	Coming of ...	Taylor & ...	1994	97802033...	243606852	acode	collname	2023-
57	Y	CRKN_Ebo...	Taylor&Fra...	Compassio...	Taylor & ...	1994	97802039...	38595421	acode	collname	2023-
58	V	CRKN_Ebo...	Taylor&Fra...	Conflict in	Taylor & ...	2005	97802033...	56793676	acode	collname	2023-

Univ. of Prince Edward Island

Export

The scroll bars helps navigate up and down the page and provides left to right navigation.

ePAT

Home

Y

	Access	File_Name	Platform	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	agreement_code	collection_name	stadata
1	Y	CRKN_Ebo...	Taylor&Fra...	11 ...	Taylor & ...	2003	97802034...	None	acode	collname	2023-
2	Y	CRKN_Ebo...	Taylor&Fra...	A Path ...	Taylor & ...	2004	97802035...	None	acode	collname	2023-
3	Y	CRKN_Ebo...	Taylor&Fra...	A War of ...	Taylor & ...	2004	97802036...	None	acode	collname	2023-
4	Y	CRKN_Ebo...	Taylor&Fra...	Across the ...	Taylor & ...	2004	97802033...	52430925	acode	collname	2023-
5	Y	CRKN_Ebo...	Taylor&Fra...	Acts of ...	Taylor & ...	2002	97802034...	49225314	acode	collname	2023-
6	Y	CRKN_Ebo...	Taylor&Fra...	Adult ...	Taylor & ...	1993	97802039...	None	acode	collname	2023-
7	Y	CRKN_Ebo...	Taylor&Fra...	Afghanista...	Taylor & ...	2008	97802039...	166383066	acode	collname	2023-
8	Y	CRKN_Ebo...	Taylor&Fra...	Africa in th...	Taylor & ...	2007	97802039...	183595768	acode	collname	2023-
9	Y	CRKN_Ebo...	Taylor&Fra...	Against ...	Taylor & ...	2010	None	None	acode	collname	2023-
10	Y	CRKN_Ebo...	Taylor&Fra...	America, ...	Taylor & ...	2007	97802030...	316142569	acode	collname	2023-
11	Y	CRKN_Ebo...	Taylor&Fra...	America's ...	Taylor & ...	2002	97802032...	None	acode	collname	2023-
12	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
13	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Routledge	2009	97802038...	277196093	acode	collname	2023-
14	Y	CRKN_Ebo...	Taylor&Fra...	Anti-...	Taylor & ...	2005	97802030...	None	acode	collname	2023-
15	Y	CRKN_Ebo...	Taylor&Fra...	Applied ...	Taylor & ...	2003	97802030...	None	acode	collname	2023-
16	Y	CRKN_Ebo...	Taylor&Fra...	Archetypal...	Taylor & ...	1996	97802033...	None	acode	collname	2023-
17	Y	CRKN_Ebo...	Taylor&Fra...	Argument i...	Taylor & ...	1997	97802039...	34771988	acode	collname	2023-

Univ. of Prince Edward Island

Export

Selecting the desired column number highlights the whole row for ease of navigation.

ePAT

Home

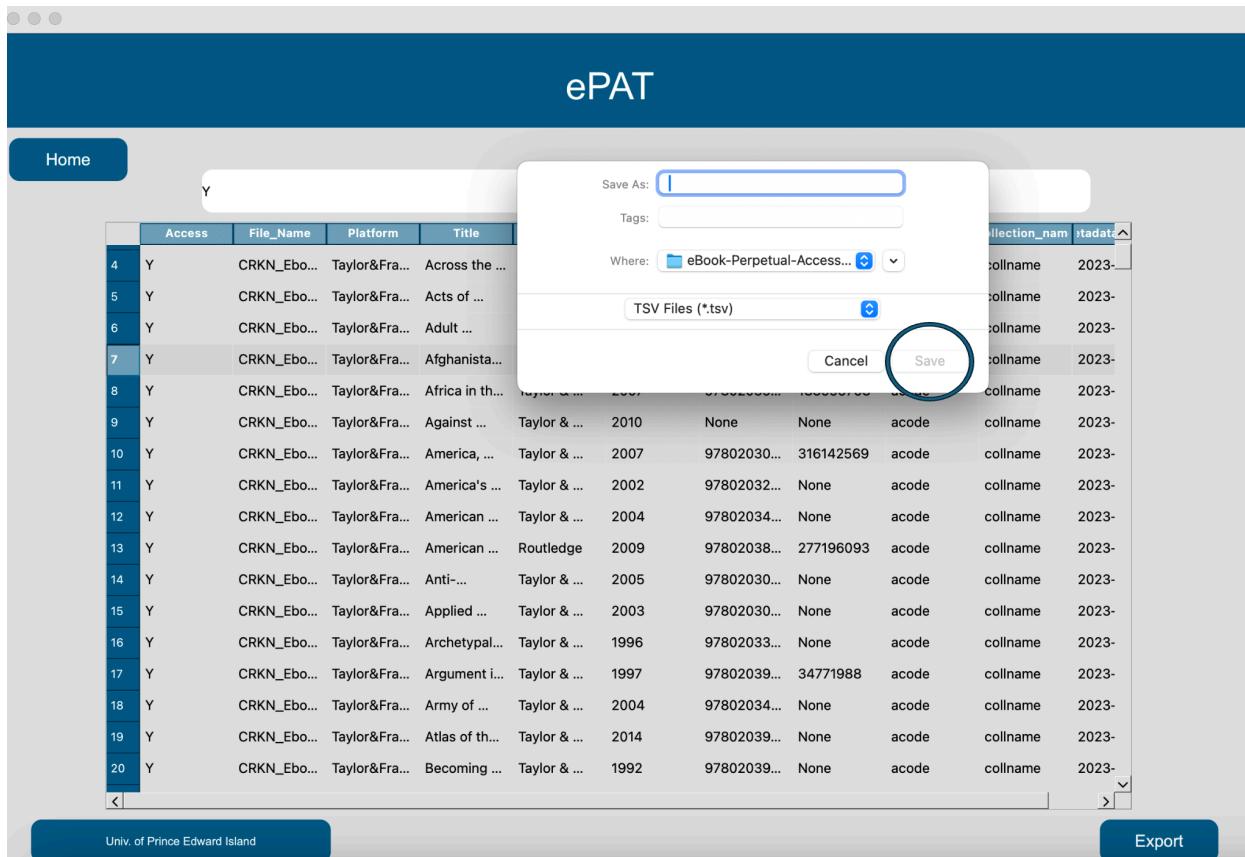
Y

	Access	File_Name	Platform	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	reement_cod	ollection_nam	itadate
1	Y	CRKN_Ebo...	Taylor&Fra...	11 ...	Taylor & ...	2003	97802034...	None	acode	collname	2023-
2	Y	CRKN_Ebo...	Taylor&Fra...	A Path ...	Taylor & ...	2004	97802035...	None	acode	collname	2023-
3	Y	CRKN_Ebo...	Taylor&Fra...	A War of ...	Taylor & ...	2004	97802036...	None	acode	collname	2023-
4	Y	CRKN_Ebo...	Taylor&Fra...	Across the ...	Taylor & ...	2004	97802033...	52430925	acode	collname	2023-
5	Y	CRKN_Ebo...	Taylor&Fra...	Acts of ...	Taylor & ...	2002	97802034...	49225314	acode	collname	2023-
6	Y	CRKN_Ebo...	Taylor&Fra...	Adult ...	Taylor & ...	1993	97802039...	None	acode	collname	2023-
7	Y	CRKN_Ebo...	Taylor&Fra...	Afghanista...	Taylor & ...	2008	97802039...	166383066	acode	collname	2023-
8	Y	CRKN_Ebo...	Taylor&Fra...	Africa in th...	Taylor & ...	2007	97802039...	183595768	acode	collname	2023-
9	Y	CRKN_Ebo...	Taylor&Fra...	Against ...	Taylor & ...	2010	None	None	acode	collname	2023-
10	Y	CRKN_Ebo...	Taylor&Fra...	America, ...	Taylor & ...	2007	97802030...	316142569	acode	collname	2023-
11	Y	CRKN_Ebo...	Taylor&Fra...	America's ...	Taylor & ...	2002	97802032...	None	acode	collname	2023-
12	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
13	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Routledge	2009	97802038...	277196093	acode	collname	2023-
14	Y	CRKN_Ebo...	Taylor&Fra...	Anti-...	Taylor & ...	2005	97802030...	None	acode	collname	2023-
15	Y	CRKN_Ebo...	Taylor&Fra...	Applied ...	Taylor & ...	2003	97802030...	None	acode	collname	2023-
16	Y	CRKN_Ebo...	Taylor&Fra...	Archetypal...	Taylor & ...	1996	97802033...	None	acode	collname	2023-
17	Y	CRKN_Ebo...	Taylor&Fra...	Argument i...	Taylor & ...	1997	97802039...	34771988	acode	collname	2023-

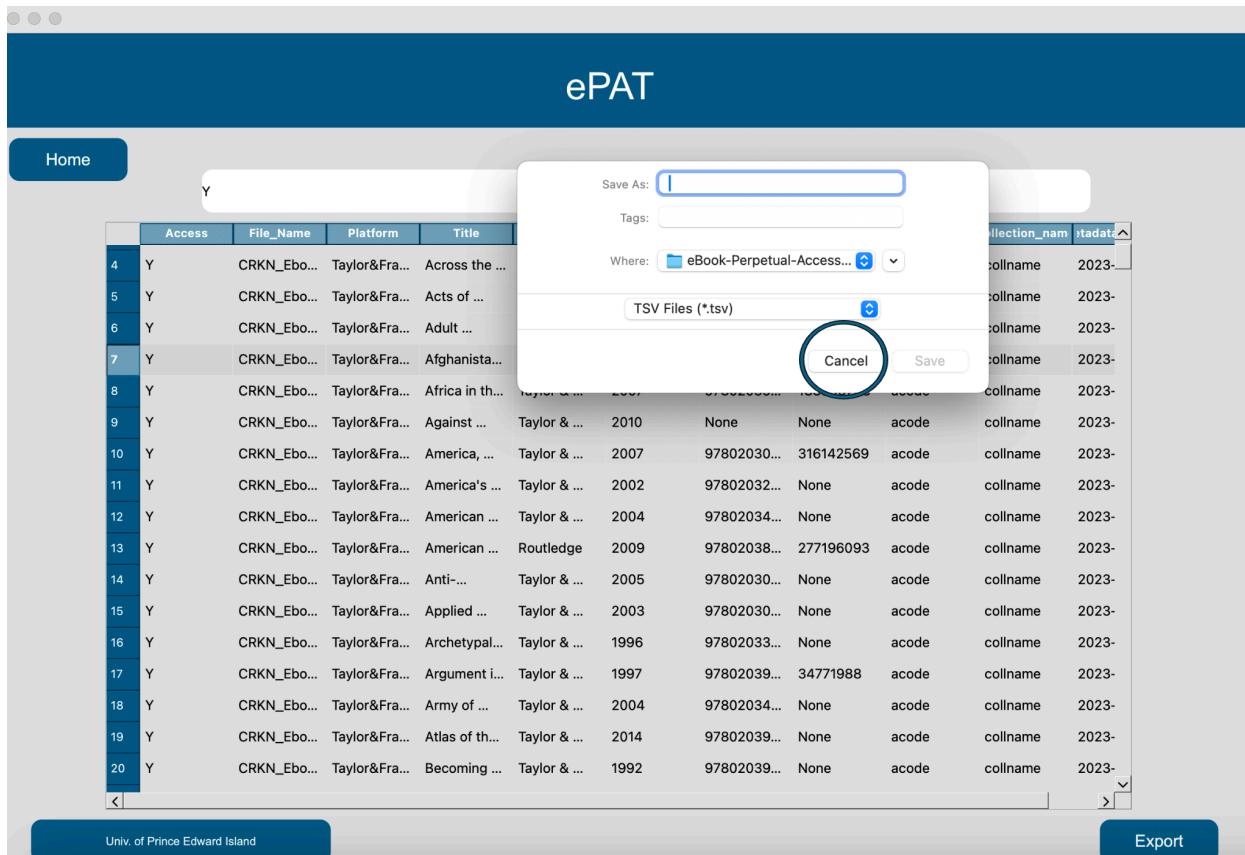
Univ. of Prince Edward Island

Export

The user can also export search results into their system by clicking the ‘Export’ button at the bottom right of the screen.



The user can select the desired name and location to save the file and hit ‘Save.’



If the user hits ‘Cancel,’ the user returns to the results page.

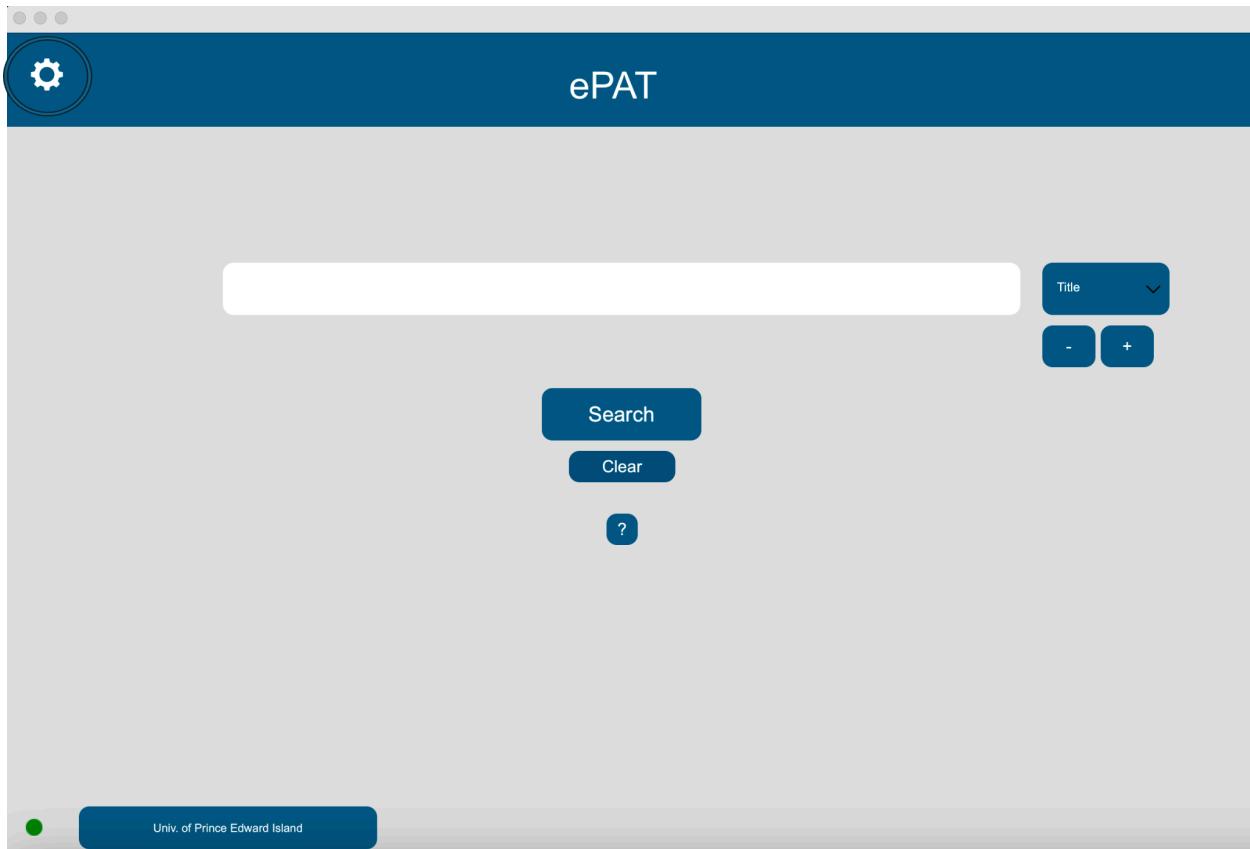
The user can click the Home button to return to the Home Page.

	Access	File_Name	Platform	Title	Publisher	Platform_YOP	Platform_eISBN	OCN	Agreement_code	Collection_name	Status
4	Y	CRKN_Ebo...	Taylor&Fra...	Across the ...	Taylor & ...	2004	97802033...	52430925	acode	collname	2023-
5	Y	CRKN_Ebo...	Taylor&Fra...	Acts of ...	Taylor & ...	2002	97802034...	49225314	acode	collname	2023-
6	Y	CRKN_Ebo...	Taylor&Fra...	Adult ...	Taylor & ...	1993	97802039...	None	acode	collname	2023-
7	Y	CRKN_Ebo...	Taylor&Fra...	Afghanista...	Taylor & ...	2008	97802039...	166383066	acode	collname	2023-
8	Y	CRKN_Ebo...	Taylor&Fra...	Africa in th...	Taylor & ...	2007	97802039...	183595768	acode	collname	2023-
9	Y	CRKN_Ebo...	Taylor&Fra...	Against ...	Taylor & ...	2010	None	None	acode	collname	2023-
10	Y	CRKN_Ebo...	Taylor&Fra...	America, ...	Taylor & ...	2007	97802030...	316142569	acode	collname	2023-
11	Y	CRKN_Ebo...	Taylor&Fra...	America's ...	Taylor & ...	2002	97802032...	None	acode	collname	2023-
12	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
13	Y	CRKN_Ebo...	Taylor&Fra...	American ...	Routledge	2009	97802038...	277196093	acode	collname	2023-
14	Y	CRKN_Ebo...	Taylor&Fra...	Anti-...	Taylor & ...	2005	97802030...	None	acode	collname	2023-
15	Y	CRKN_Ebo...	Taylor&Fra...	Applied ...	Taylor & ...	2003	97802030...	None	acode	collname	2023-
16	Y	CRKN_Ebo...	Taylor&Fra...	Archetypal...	Taylor & ...	1996	97802033...	None	acode	collname	2023-
17	Y	CRKN_Ebo...	Taylor&Fra...	Argument i...	Taylor & ...	1997	97802039...	34771988	acode	collname	2023-
18	Y	CRKN_Ebo...	Taylor&Fra...	Army of ...	Taylor & ...	2004	97802034...	None	acode	collname	2023-
19	Y	CRKN_Ebo...	Taylor&Fra...	Atlas of th...	Taylor & ...	2014	97802039...	None	acode	collname	2023-
20	Y	CRKN_Ebo...	Taylor&Fra...	Becoming ...	Taylor & ...	1992	97802039...	None	acode	collname	2023-

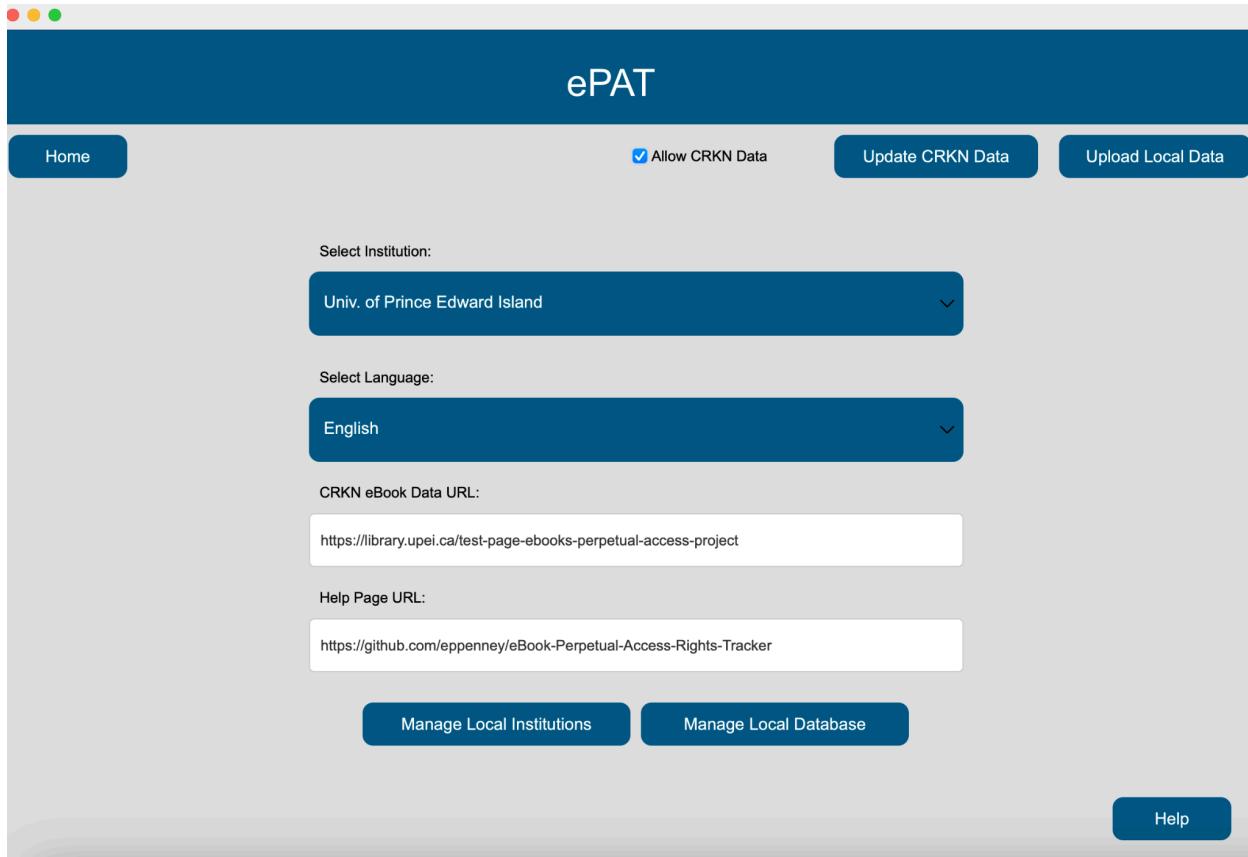
Univ. of Prince Edward Island

Export

3. THE SETTINGS PAGE

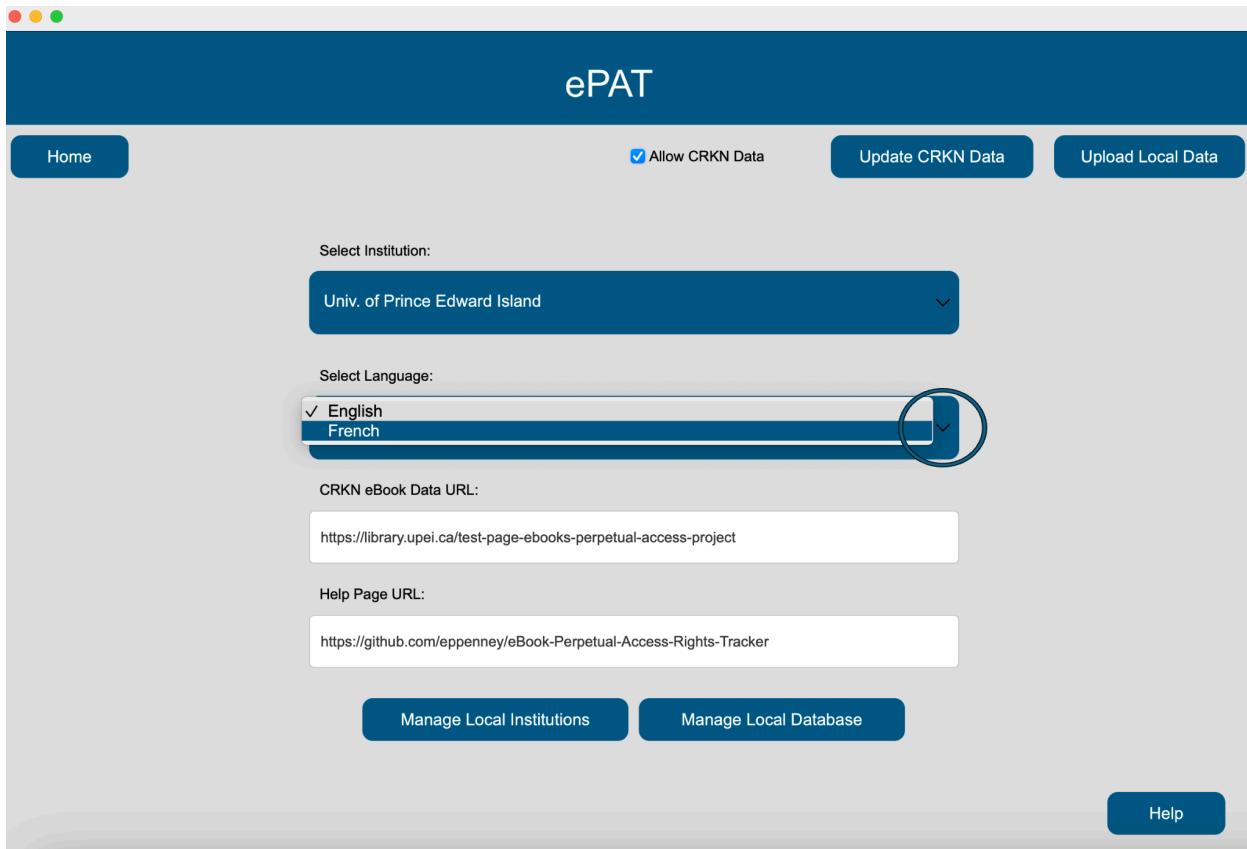


The user can click the ‘Settings’ or the gear icon to get the Settings page.

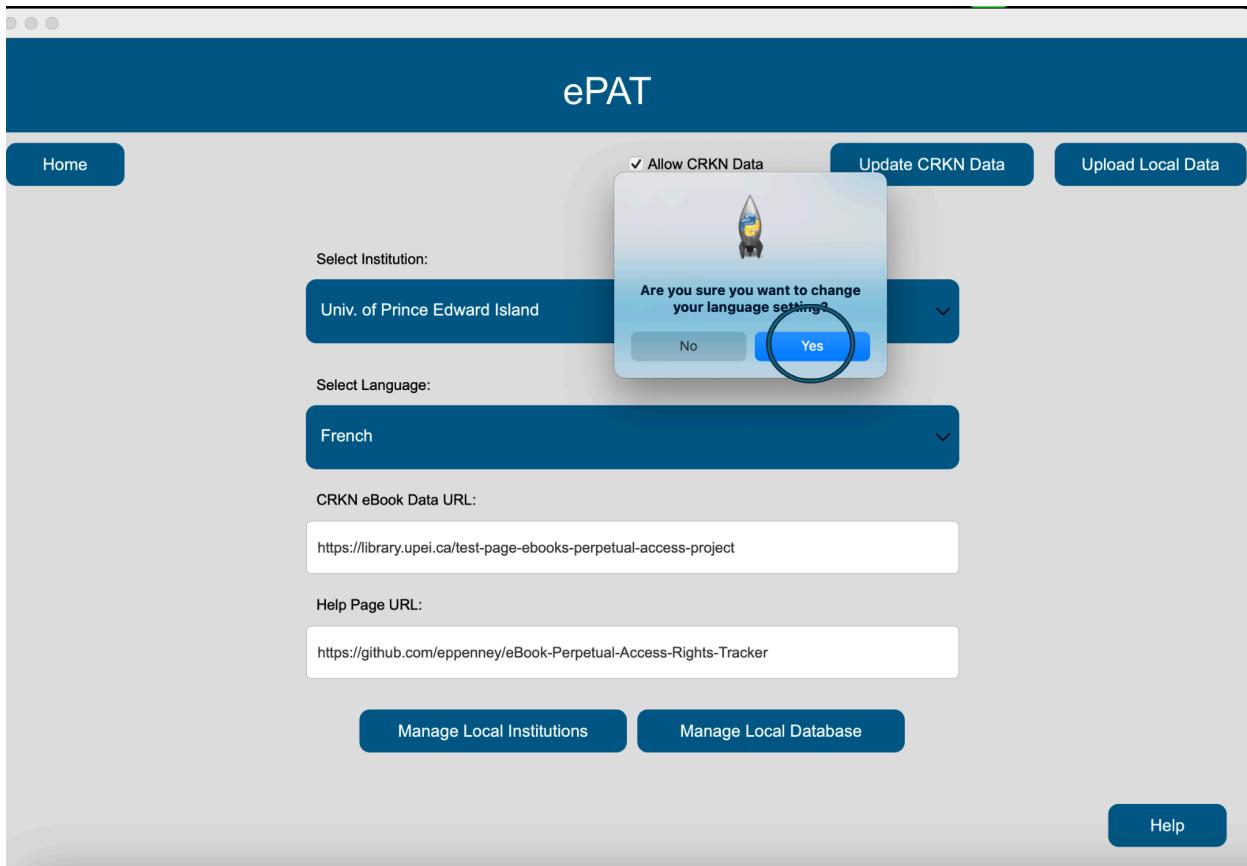


This is the Settings screen.

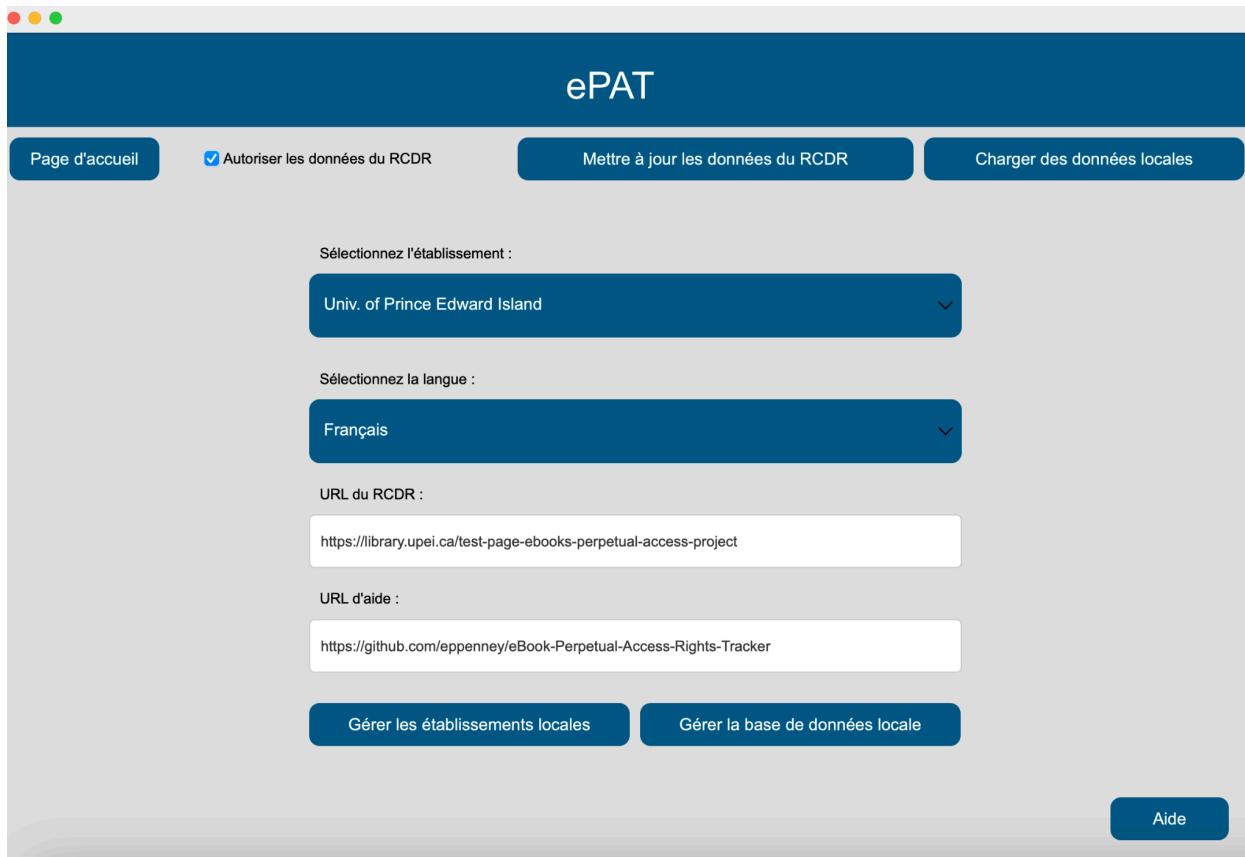
To the bottom of the page are two links - the top one for test data/sample for eBook PA rights sheet and the bottom one with the link to the GitHub Repository.



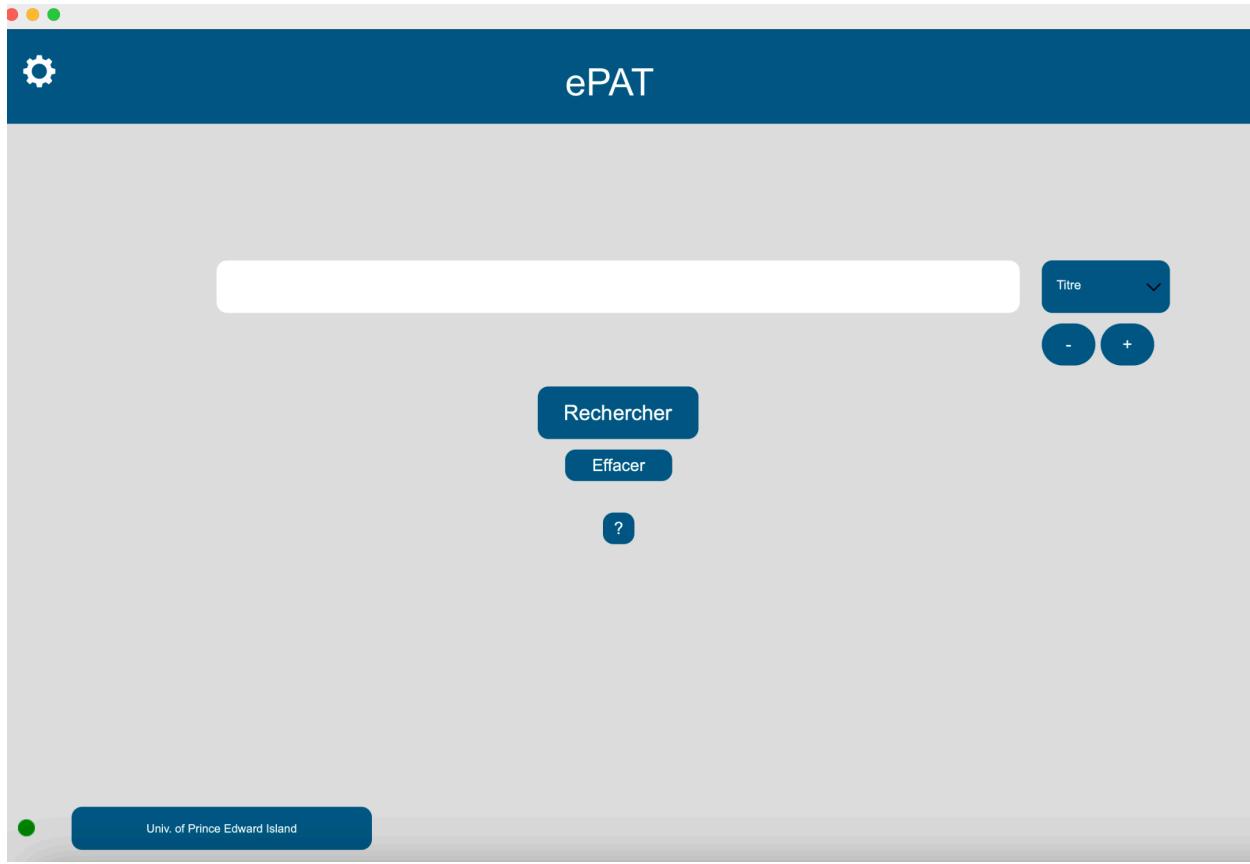
The user can select the desired language for the whole application by selecting the desired language from the language drop-down menu.



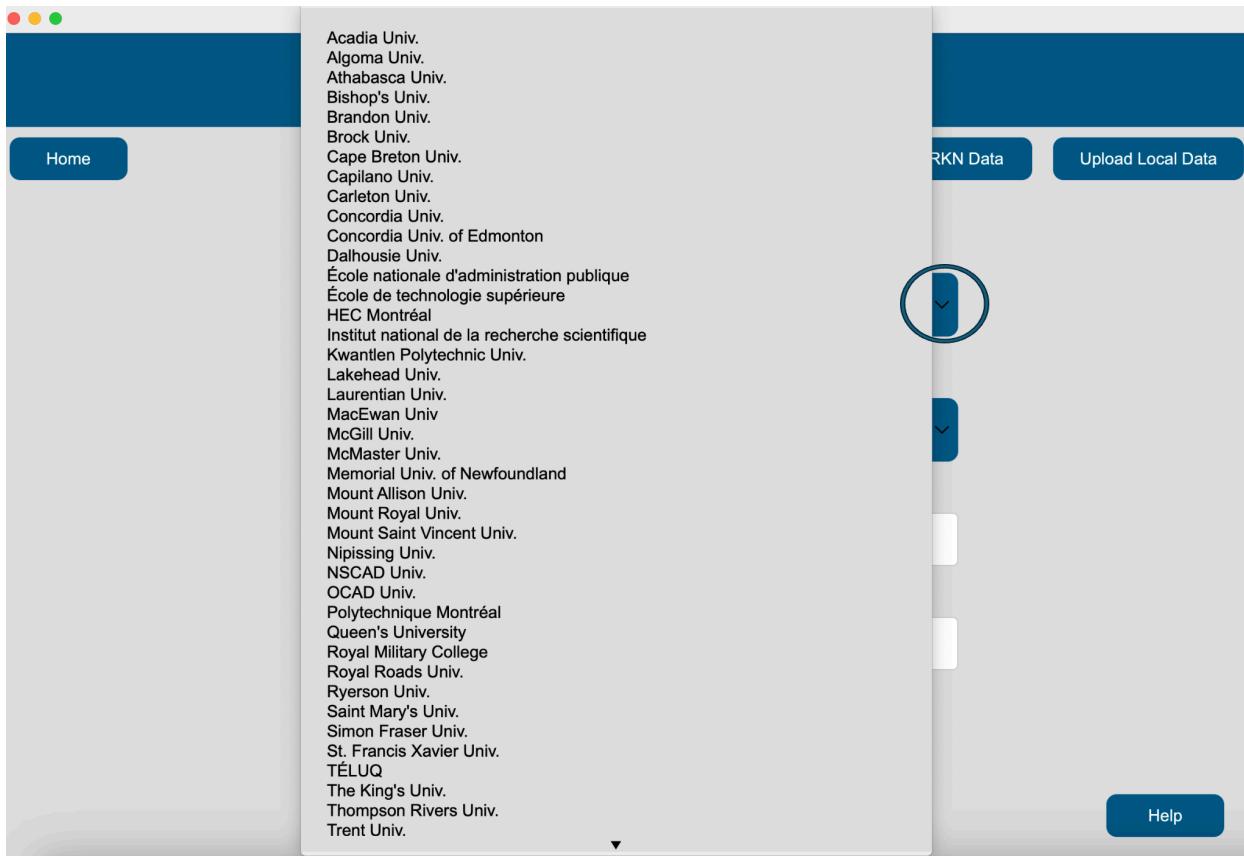
Once the user selects the desired language, a confirmation message pops up to save the desired selection. This will change the entire application to the desired language.



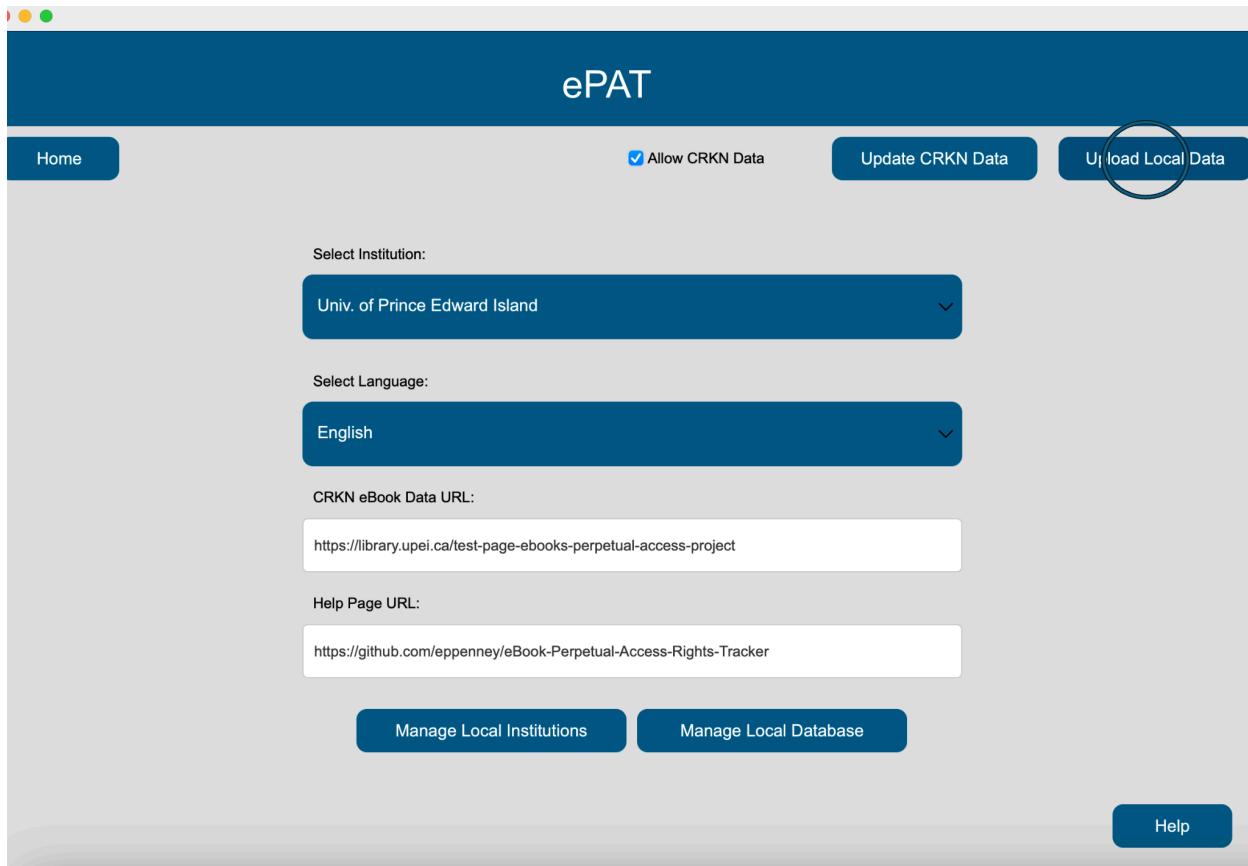
Settings page is translated to the French language.



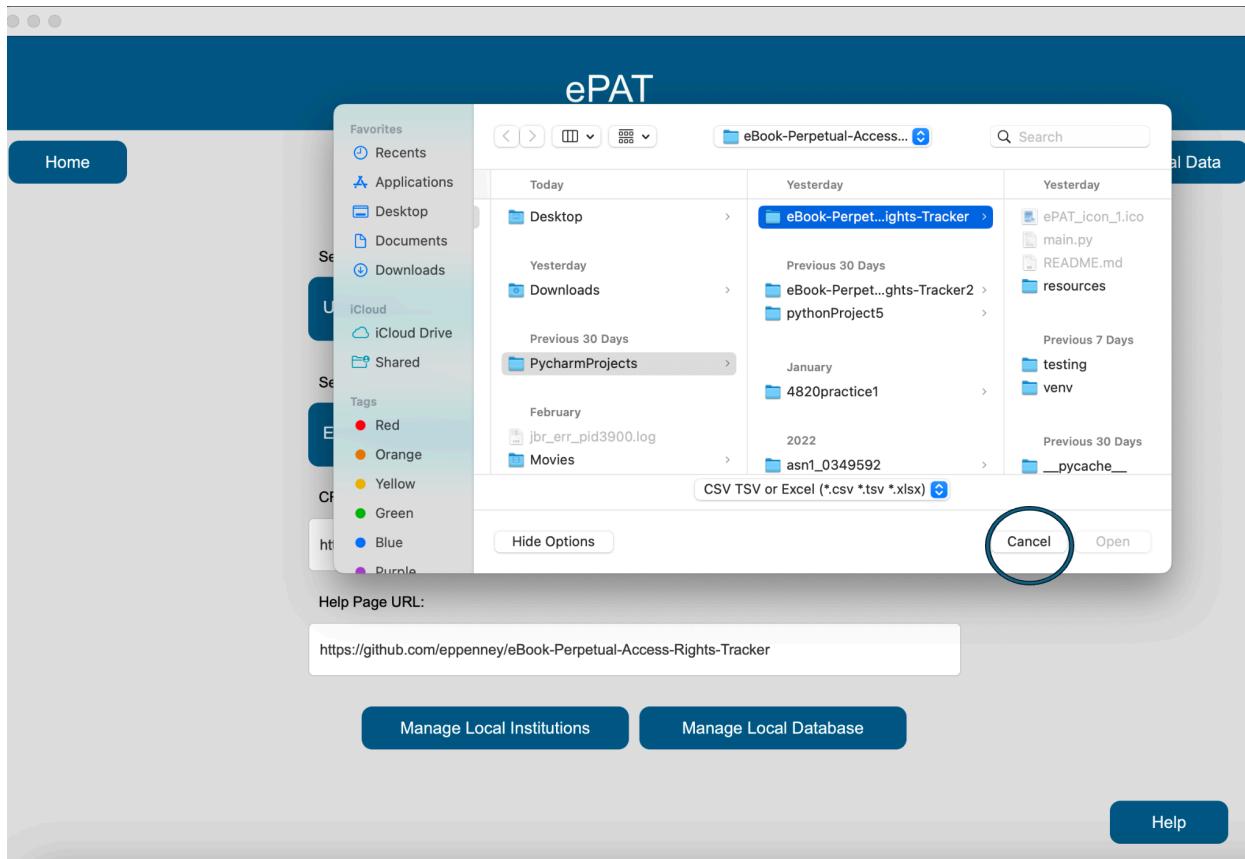
Main screen (Home page) in French.



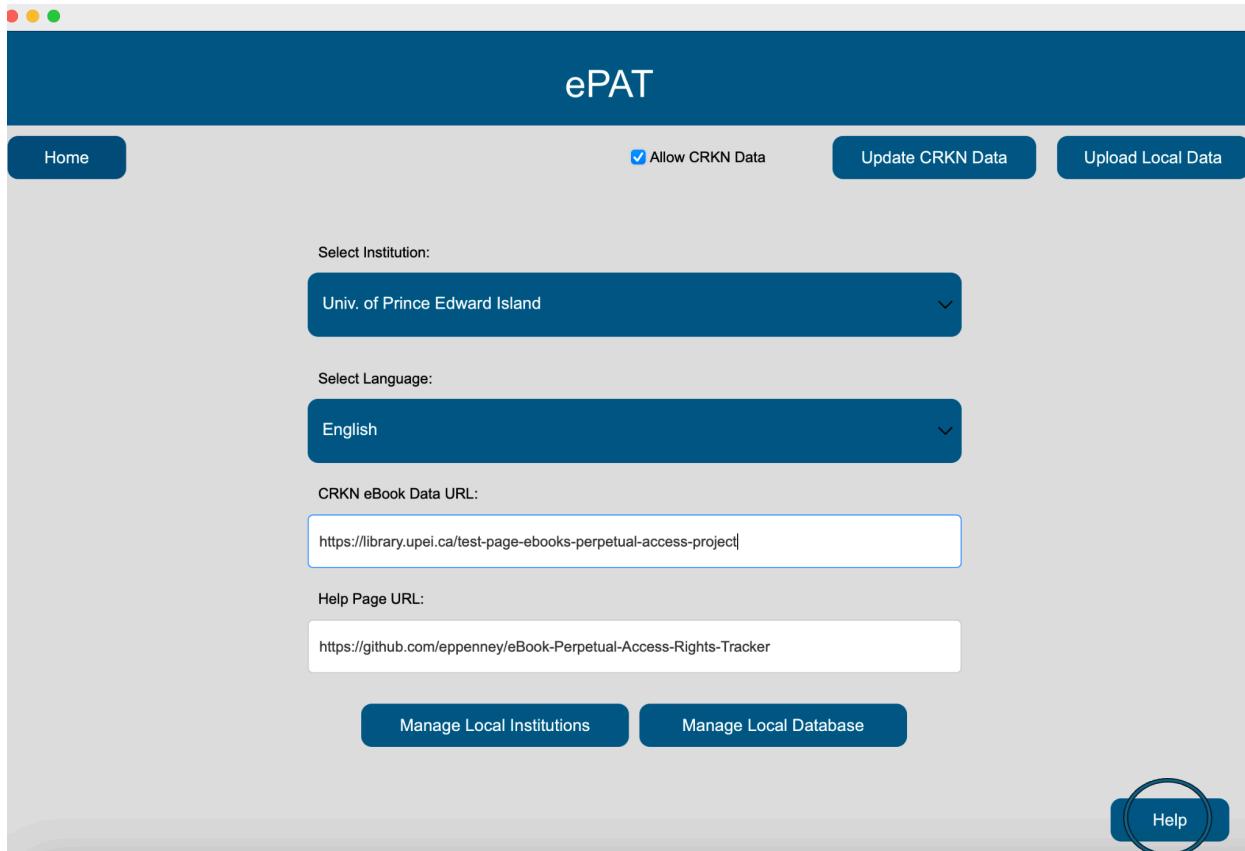
The user can also change/select the desired institution from the 'Select Institution' drop-down menu.



The user can also upload their local files from their own computer into the system database.



A pop-up appears asking the user to upload files. The user can choose the file(s) they would like to upload or hit the cancel button to go back to the settings page.



The user can hit the Help button to the bottom right of the page to visit the GitHub repository for any help required.

Home

eppenney edited this page 3 days ago · 11 revisions

Introduction

Welcome to the eBook Perpetual Access Rights Tracker! This application serves as a comprehensive tool for managing and navigating eBook perpetual access rights. The application features many convenient options related to local data management, exporting, and configuring settings tailored to your preferences. Whether you're a user seeking specific eBook information or an administrator managing files and settings, this guide will assist you in maximizing the utility of the app.

Using the App

Performing a Search

Click to learn more about how to perform searches, including multiple text fields, searching by title, eISBN, and OCN, and special characters.

Exporting Results

Click to learn more about how to export your search results.

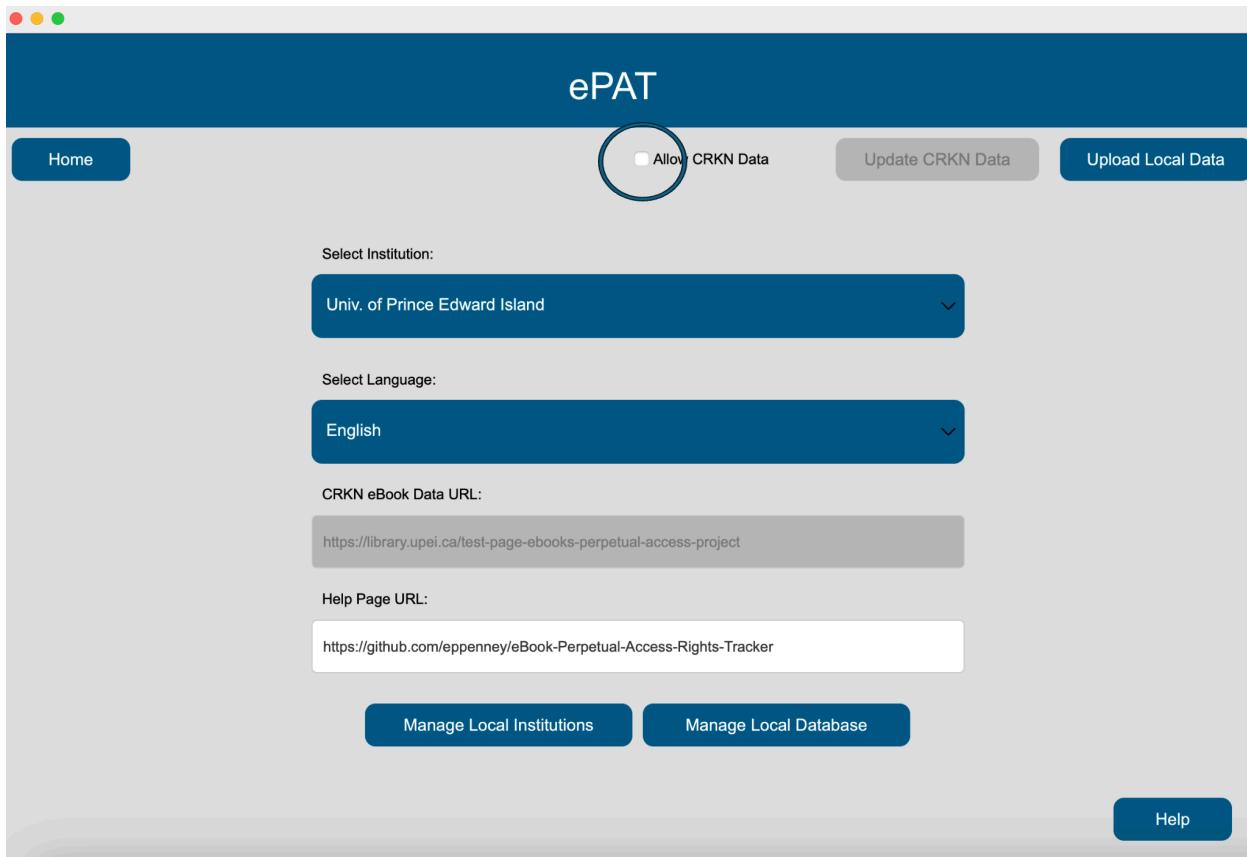
Uploading Files

Click to learn more about how to upload your own files to the database, how to manage local files, and how to manage custom institutions.

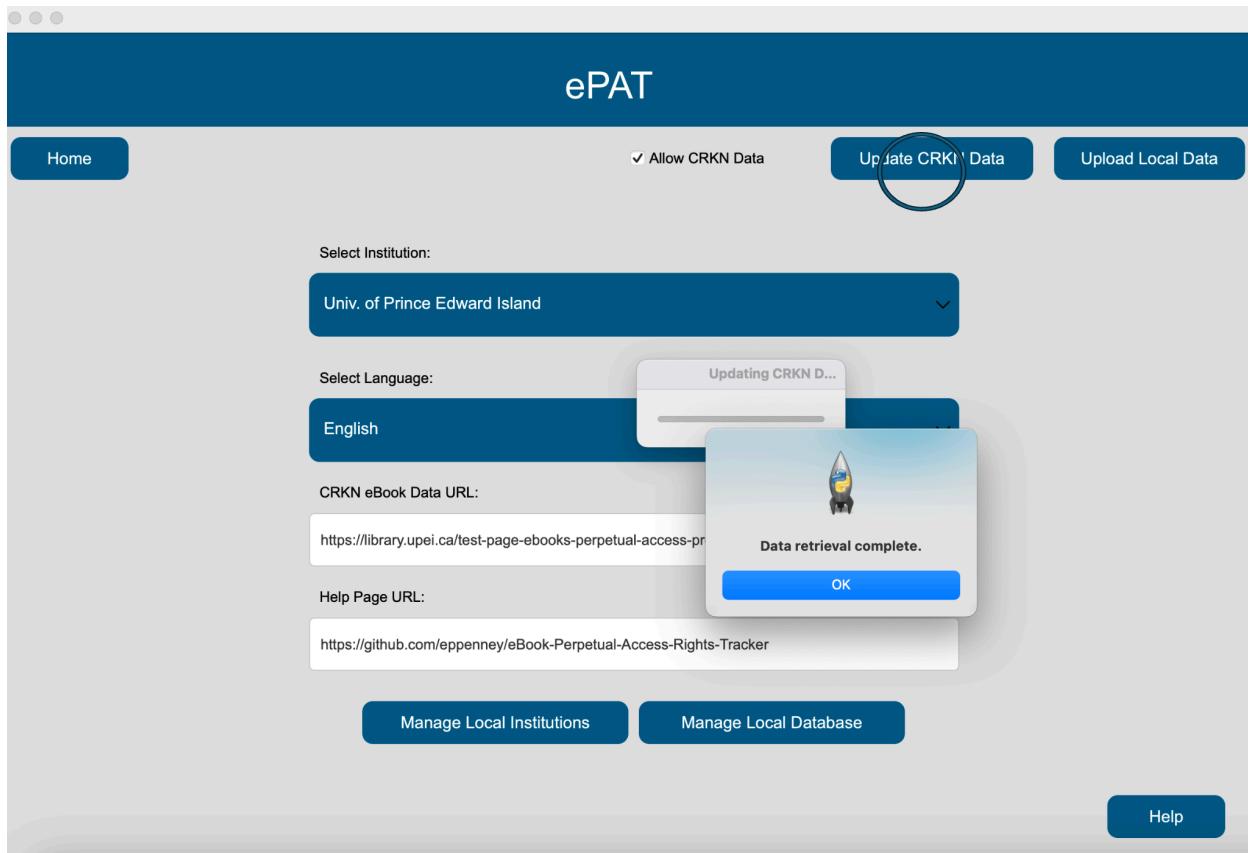
Pages (3)

Find a page...

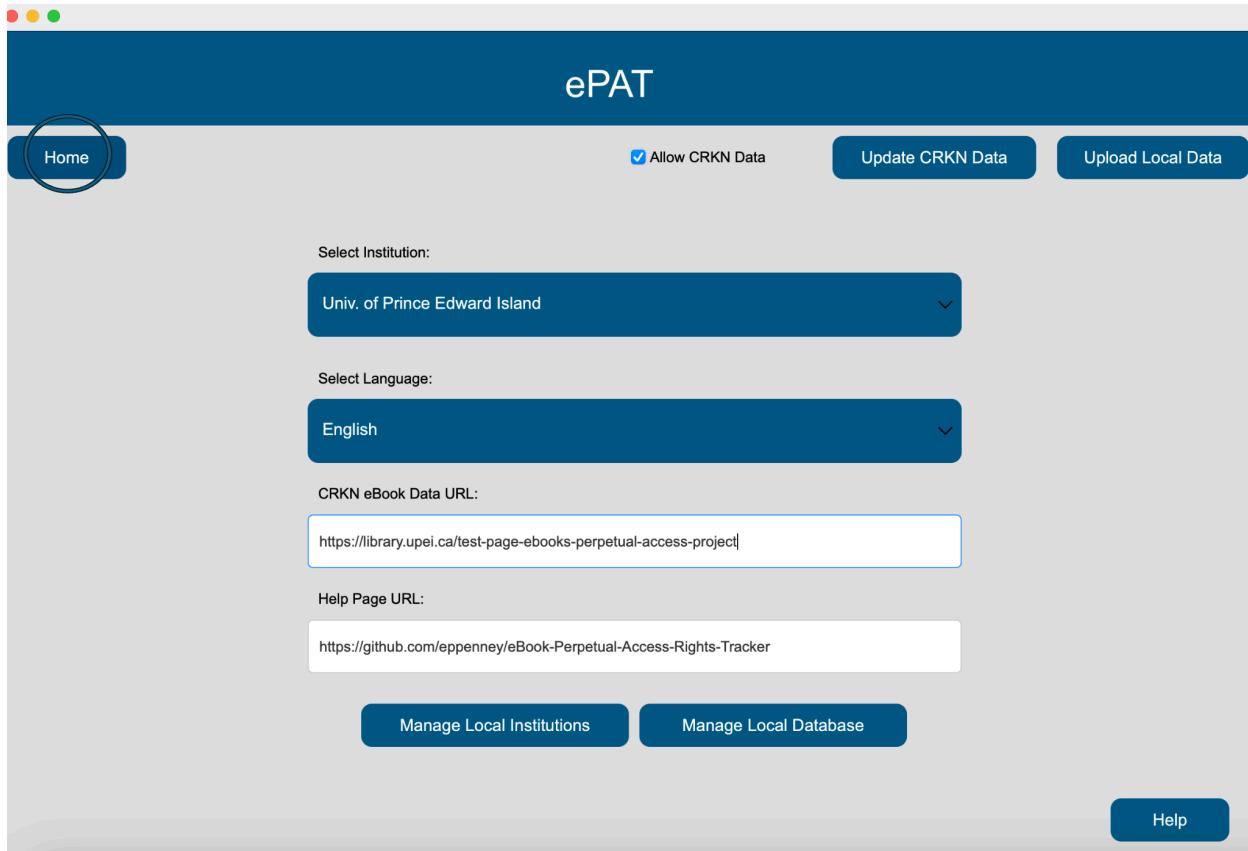
- Home
 - Introduction
 - Using the App
 - Performing a Search
 - Exporting Results
 - Uploading Files
 - Settings
 - Resources
 - End-user Documentation
 - Technical Documentation
- Credits
- Help - Exporting
- Help - Performing a Search
- Help - Settings
- Help - Uploading Local Files



If the user de-selects the checkbox of ‘Allow CRKN Data,’ the application will block access to updating the CRKN data files in the database and modifying the URL for the CRKN website where the data files are stored. Any searches will also only contain results from local files uploaded to the database.



The user can choose to update the database once again in the settings page.



The user can hit the 'Home' to return to the Home Page.

5. Testing

The system testing process aimed to determine all defects in our project. The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing - Unit testing and integration testing for which a separate log has been maintained and linked below.

Testing Log:

 Testing Log

6. End User Documentation

A shorter and simpler documentation is available at the link below for end users in particular. This documentation covers basic operations done throughout the application in the form of a how-to guide.

 [End User Documentation](#)

7. Conclusion

In conclusion, the development and implementation of the ebook perpetual access tracking application offers a solution to the longstanding challenge faced by librarians in managing perpetual access rights for ebooks. This application streamlines the process and enhances efficiency for librarians from any institution by providing a centralized platform for verifying access rights. With its ability to consolidate separate spreadsheets into a central database, the application simplifies access tracking and ensures accurate and up-to-date information regarding ebook availability. The ebook perpetual access rights tracking application promises to significantly improve the management of ebook collections, and lets librarians spend less time on the task all together.