

# **BiblioteQ**

A Library Application

Document Version 1.00

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## Introduction

BiblioteQ is a complex, highly-configurable, and mature library application launched in 2005. The application supports large, medium, and small institutions. Personal libraries are also supported.

BiblioteQ should be functional on any operating system where Qt 4.8.x (or Qt 5.x and newer), SQLite, and YAZ are supported. BiblioteQ also supports the PostgreSQL database engine.

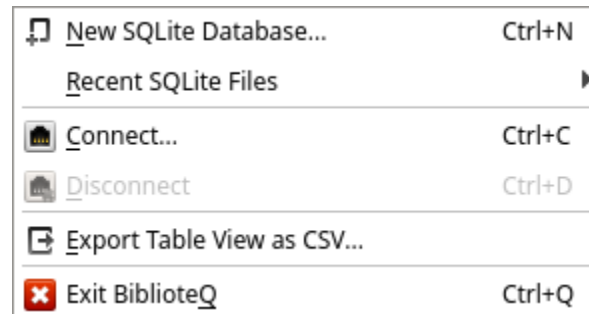
The source is readily available at <https://github.com/textbrowser/biblioteq>.

The purpose of this document is to detail the functionality of BiblioteQ. Installation instructions are not described in this document. Please refer to the Administrator Guide document for installation information.



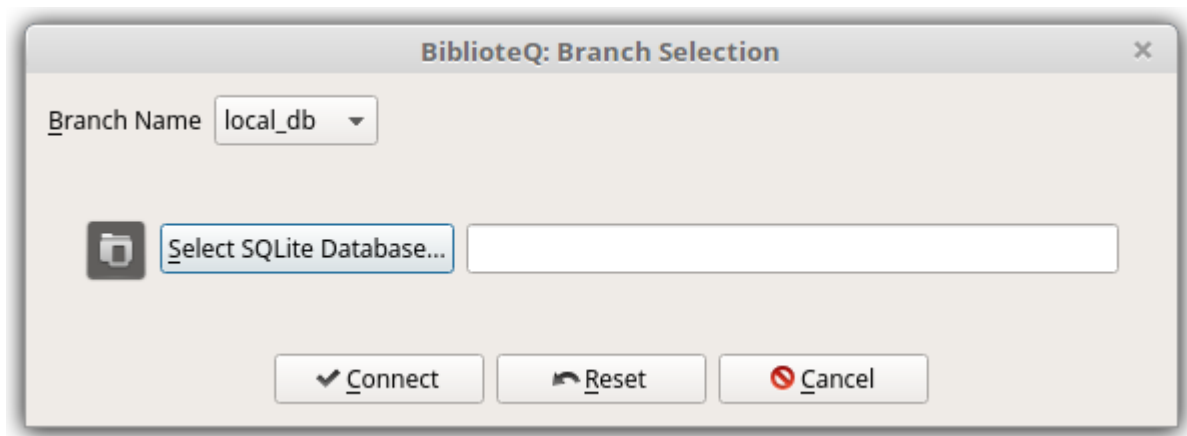
## Accessing an Existing SQLite Database

An existing SQLite database file may be opened via two methods. The first method involves the Recent SQLite Files option of the File menu.



The Recent SQLite Files sub-menu contains a list of BiblioteQ's recently-accessed SQLite files. If an SQLite file is selected, the specified SQLite database is opened. Please note that BiblioteQ will first close an existing database, if one is open, before opening the new one. A Clear option is also included in the sub-menu. If Clear is activated, the list of the recently-accessed SQLite files is cleared.

The second method of accessing an SQLite database involves the Branch Selection dialog. The dialog may be accessed via the Connect option of the File menu.



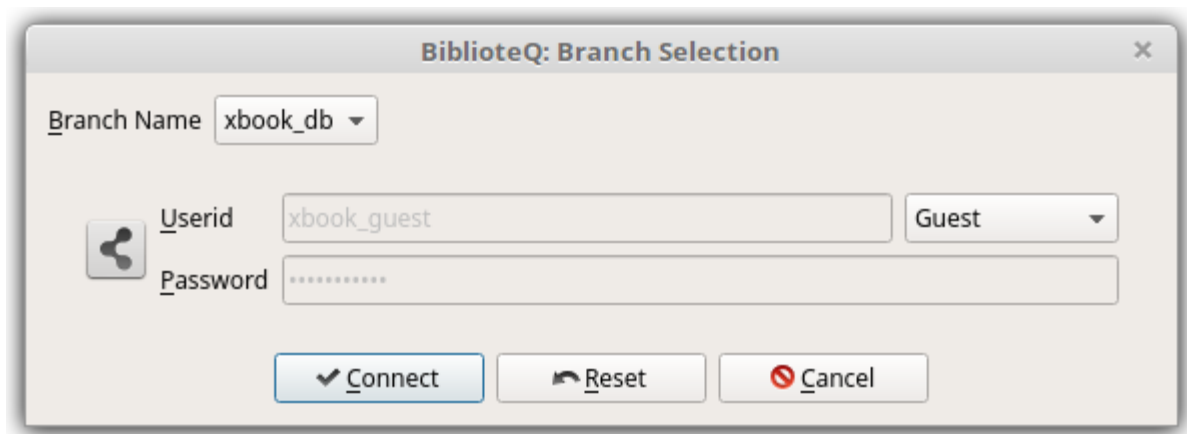
After opening the Branch Selection dialog, select local\_db as the Branch Name in order to prepare the dialog for accessing SQLite databases. Afterwards, click on the Select SQLite Database button to launch a file-selection dialog.

## Connecting to a Database

BiblioteQ supports both the PostgreSQL and the SQLite database engines. This section will cover the details involved in connecting to a PostgreSQL database.



Click the Connect option of the File menu.



Then, select the appropriate non-local\_db Branch Name if one is available. Provide the Password and Userid information, if applicable, and press the Connect button.

Note: The sections Accessing an Existing SQLite Database and Creating an SQLite Database cover the details of accessing and creating SQLite databases, respectively.

## Creating a PostgreSQL Database

BiblioteQ supports PostgreSQL 8.x, 9.x, and newer. Please follow the PostgreSQL-provided documentation for installing PostgreSQL. After installing the required PostgreSQL packages, please perform the following operations:

1. Create the xbook\_db database via `createdb xbook_db -E UTF8` or via the PostgreSQL-recommended procedure. Please note that xbook\_db is only a suggestion.
2. Execute `createlang plpgsql -d xbook_db` or the PostgreSQL recommended procedure for adding a new programming language to the xbook\_db database.
3. If desired, replace all instances of the default administrator xbook\_admin in postgresql\_create\_schema.sql file.
4. Log into your PostgreSQL xbook\_db database and load the postgresql\_create\_schema.sql file via `\i postgresql_create_schema.sql`.

## Creating an SQLite Database

A new BiblioteQ SQLite database file may be created via the New SQLite Database option of the File menu.

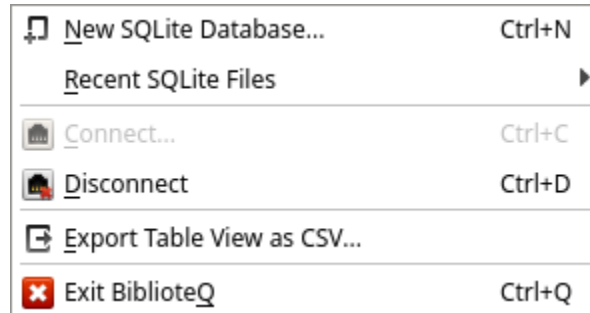


After the option is selected, a file-selection dialog is displayed. An existing or a new file may be specified. A confirmation dialog is displayed if an existing file is selected.

Once the SQLite database file has been initialized, BiblioteQ will open it. If a database is already open, a confirmation prompt is displayed. If confirmed, the current database is closed and the newly-created database is opened.

## Disconnecting from a Database

To disconnect from a connected database, click the File menu. Then click the Disconnect option.





## Exporting a Table View to a CSV File

The current table view's contents may be exported to a CSV file via the Export Table View as CSV option of the File menu.



If clicked, a file-selection dialog is displayed.

The generated CSV file will contain comma-separated values. Values which themselves contain commas will be encased in double-quotes. An example: *A book of abstract algebra,"Pinter, Charles C.",McGraw-Hill,1990-01-01,New York,2,"Algebra, Abstract.",English,0070501386,0.00,Dollar,1,Hardcover,Home,9780070501386,89035355,QA162 .P56 1990,512/.02,1,0,Original,As New,.*

The first line of the generated file contains the exported view's header strings.

## Main Window Tool Buttons

This page will describe the various tool buttons which are present on the main window.



The tool buttons are described from left to right.

### View Selected Item(s)

Open the details of the selected item(s). A confirmation prompt is displayed if the number of selected items exceeds four. The option is not available if the current account has administrator privileges.

### Add Item

Add an item. The option is not available if the current account does not have Item Creation privileges.

### Duplicate Selected Item(s)

Open the details of the selected item(s). A confirmation prompt is displayed if the number of selected items exceeds four. The option is not available if the current account does not have Item Creation privileges.

### Delete Selected Item(s)

Delete the selected item(s). A confirmation prompt is displayed. The option is not available if the current account does not have Item Deletion privileges.

### Modify Selected Item(s)

Modify the selected item(s). A confirmation prompt is displayed if the number of selected items exceeds four. The option is not available if the current account does not have Item Updates privileges.

### Print Current View

Print the items in the current view.

### Select Viewable Columns

Select the columns that are to be shown in the main window's table.

### View Member's Reservation History (Patron's Only)

Display the current patron's reserved item. The option is only available for patrons.

## Member's Reservation History

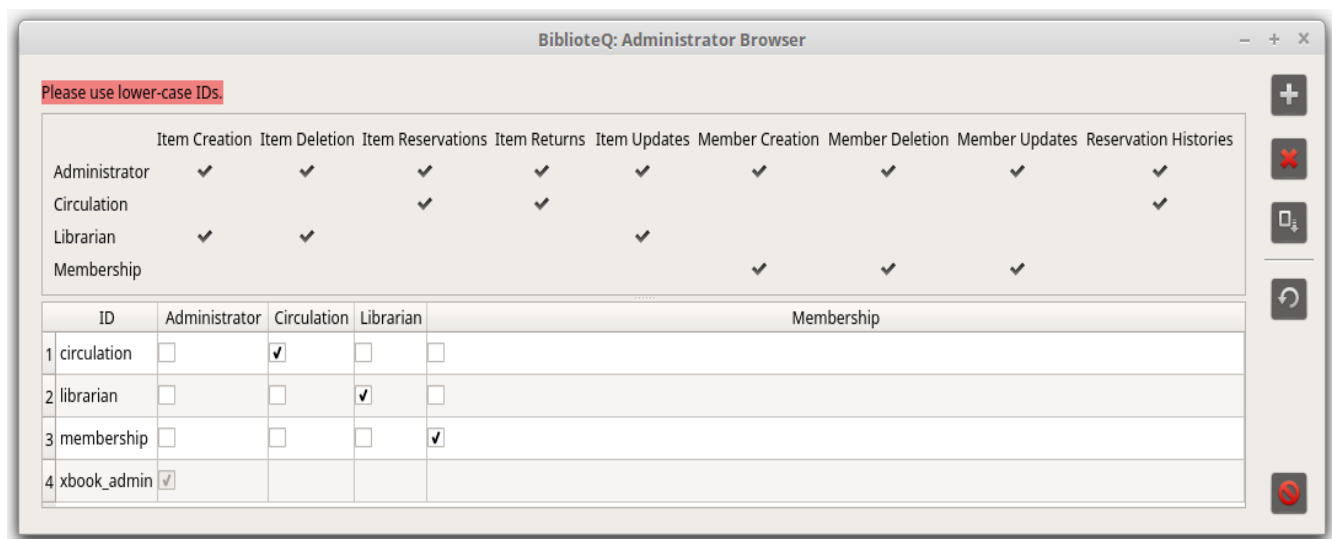
## PostgreSQL Accounts

BiblioteQ provides three tiers of PostgreSQL database roles: administrator, guest, and patron.

Initially, the postgresql\_create\_schema.sql script may be used to create the administrator account xbook\_admin.

Guest roles are provided a read-only interface. Patron roles are granted reservation permissions.

PostgreSQL accounts may thereafter be modified via the Administrator Browser. Please note that the Administrator Browser is only available within an administrator role.



Additionally, there are four administrator levels: Administrator, Circulation, Librarian, and Membership. The abilities of each level is described next.

Administrator permissions:

- Item Creation  
Ability to create books, etc.
- Item Deletion  
Ability to remove books, etc.
- Item Reservations  
Ability to reserve items.
- Item Returns  
Ability to process returned items.

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- Item Updates  
Ability to modify books, etc.
- Member Creation  
Ability to create administrators and patrons.
- Member Deletion  
Ability to remove administrators and patrons.
- Member Updates  
Ability to update information of patrons and permissions of administrators.
- Reservation Histories  
Ability to read reservation histories of patrons.

### Circulation permissions:

- Item Reservations
- Item Returns
- Reservation Histories

### Librarian permissions:

- Item Creation
- Item Deletion
- Item Updates

### Membership permissions:

- Member Creation
- Member Deletion
- Member Updates

## Preparing biblioteq.conf

The biblioteq.conf file contains non-user settings. The location of the file varies with distribution. This page will describe the various properties which may be defined in the biblioteq.conf file.

### [Amazon Front Cover Images]

Describes required settings for retrieving book front-cover images from amazon.com.

host

Host name of the Amazon image server.

path

Path of the image file. BiblioteQ substitutes the respective ISBN in the percent sign.

The optional properties proxy\_host, proxy\_password, proxy\_port, proxy\_type, and proxy\_username are also supported. The proxy\_type property supported values of HTTP, None, Socks5, and System.

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### [Branch-1]

The first database branch.

connection\_options

PostgreSQL-specific connection options. An example is *connect\_timeout=10;sslmode=verify-full*.

database\_name

The name of the database as it will appear in the Branch Selection dialog.

database\_type

The database's type. Must be set to postgresql or sqlite.

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### hostname

The host name of the PostgreSQL database server. Both IP addresses and fully-qualified domain names may be assigned.

### port

The port value of the PostgreSQL database server.

### ssl\_enabled

If false, SSL/TLS communications are disabled.

### [SRU-1]

Describes the first SRU site.

### name

Name of the site as it will appear in the application.

### url\_isbn

Complete URL of the site for retrieving data is ISBNs. The tokens %1 and %2 are replaced by the ISBN-10 and ISBN-13 fields.

### url\_issn

Complete URL of the site for retrieving data via ISSNs. The token %1 is replaced by the ISSN field.

The optional properties proxy\_host, proxy\_password, proxy\_port, proxy\_type, and proxy\_username are also supported. The proxy\_type property supported values of HTTP, None, Socks5, and System.

### [Z39.50-1]

Describes the first Z39.50 site. Please also see <http://www.indexdata.com/yaz/doc/zoom.records.html>.

### database\_name

The remote database name.

### format

Render format. An example: *marc8,utf-8*.

### name

Name of the site as it will appear in the application.

### port

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The remote database's port number.

record\_syntax

Preferred record syntax. Example: *MARC21*.

The optional properties password, proxy\_host, proxy\_port, and username are also supported.



## Translations

Translations are incomplete. Translating BiblioteQ is quite simple. Please download and install Qt from <https://download.qt.io>, download BiblioteQ's source, and become an expert in Qt's Linguist. Linguist documentation is available at <https://doc.qt.io/qt-5/qtlinguist-index.html>.

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