

# BiblioteQ Administrator Guide

## Introduction

This document details the process for installing and configuring BiblioteQ.

## 1. Database Configuration

### 1.1 PostgreSQL Database Configuration

BiblioteQ supports version 7.4.16 of PostgreSQL. Higher versions are also supported. Please follow the PostgreSQL-provided documentation for installing PostgreSQL. After installing the required PostgreSQL packages, please perform the following operations:

- a) Create the xbook\_db database via createdb xbook\_db or via the PostgreSQL-recommended protocol. Please note that xbook\_db is only a suggestion.
- b) Execute createlang plpgsql -d xbook\_db or the PostgreSQL-recommended protocol for adding a new programming language to the database.
- c) Replace all instances of the default administrator xbook\_admin in postgresql\_create\_schema.sql file.
- d) Log into your PostgreSQL database and load the postgresql\_create\_schema.sql file via \i postgresql\_create\_schema.sql.

### 1.2 SQLite Database Configuration

BiblioteQ supports version 3.5.6 of SQLite. Higher versions are also supported. To initialize an SQLite database that's suitable for BiblioteQ, execute the following command:

- a) sqlite3 -init sqlite\_create\_schema.sql biblioteq.db.

Please note that the OS X and Windows bundles contain prepared SQLite databases.

### 1.3 Database Updates

It is sometimes necessary to update a database schema after a software update. To do so, please execute the SQL statements that are located in the postgresql\_update\_schema.sql and sqlite\_update\_schema.sql files under the appropriate software version. You may also be required to execute additional steps via BiblioteQ. Please read and follow the version-specific instructions listed at <http://biblioteq.sourceforge.net/news.html>.

## 2. BiblioteQ Installation

### 2.1 OS X and Windows Installation

OS X and Windows users are urged to download the appropriate installers. After an installer has been downloaded, double-click on the appropriate icon and follow the on-screen instructions.

### 2.2 Unix Installation

Installing BiblioteQ on platforms that lack installers involves several operations. First, please resolve the following software prerequisites:

- a) Qt 4.4.3 must be installed. Please download the software from <http://www.qtsoftware.com/downloads>. You have the option of building Qt with the PostgreSQL driver or to build the driver separately as a plugin. You may compile Qt with the PostgreSQL driver via `./configure -v -qt-sql-psql -I /usr/local/include/postgresql -L /usr/local/lib/postgresql`.
- b) YAZ 2.1.53, or higher, must be installed. Please download the software from <http://www.sqlite.org/download.html>.
- c) If you intend to use PostgreSQL, the PostgreSQL 7.4.16 database package must be installed. Please download the software from <http://www.postgresql.org/download>.
- d) If you intend to use SQLite, the SQLite 3.5.6 package must be installed. Please download the software from <http://www.sqlite.org/download.html>.
- e) After the required dependencies have been fulfilled and your environment is properly configured for Qt, build BiblioteQ via `qmake -o Makefile biblioteq.pro && make`.

Once the BiblioteQ executable has been created, please complete the following operations:

- a) Create the `/usr/local/biblioteq` directory.
- b) Copy the BiblioteQ executable to `/usr/local/biblioteq`.
- c) Copy the icons.d directory to `/usr/local/biblioteq`.
- d) Create the `/usr/local/biblioteq/translations.d` directory.
- e) Copy the `translations.d/*.qm` files to `/usr/local/biblioteq/translations.d`.
- f) Copy the `biblioteq.conf` file to `/usr/local/share`.
- g) Copy the `biblioteq.sh` script to `/usr/local/bin`.
- h) Set the desired permissions on the aforementioned directories and files.

### 3. Configuring BiblioteQ

Configuring the runtime environment of BiblioteQ is relatively easy. Bundled with the software is the `biblioteq.conf` file. After BiblioteQ has been installed, please review the `biblioteq.conf` file. If necessary, please modify it to suit your preferences.