

In Out Management System

Introduction:

In out management system is web based application. It is used to track the patrons who visits to library or related locations like study zone, reading room etc. It'll scan the barcode from the ID and log the entry time and exit time of the patrons. The patron data will be fetched from the KOHA database along with the images and displayed on this system.

There are two interfaces, one is for the reading barcodes at the door and another one is for access the reports. This system will generate four types of reports in the form of excel sheet and can be downloaded. There are three user by default for administration of this system. Master user can have eye on every location added in the system. And the other two users for respected locations.

The system uses koha database to fetch the information of patrons and store it another database along with the location, entry time and exit time. These data can be accessed from admin panel in various manner like datewise, timewise, USN wise and many more.

System Requirements:

Software:

- Apache (Already present in koha server)
- Php 5.6 or greater (Already present in koha server)
- Mysql (Already present in koha server)
- Sublime editor (Need to install if you want to edit code)

Hardware:

- A computer system with wide screen monitor
- Automatic barcode scanner

Installation:

PHP Installation: (Optional)

Open a terminal and enter following commands.

```
sudo add-apt-repository ppa:ondrej/php
sudo apt-get update
sudo apt-get install php7.0 php5.6 php5.6-mysql php-gettext php5.6-mbstring
php-xdebug libapache2-mod-php5.6 libapache2-mod-php7.0
```

Setup the OPAC folder:

First download the package of the software which contains two mainly files and copy it into Home directory.

- 1) inout (directory)
- 2) Lib.sql (sql/database file)

Download Link : <https://github.com/omkar2403/inout.git>

Now we have to copy the inout directory into OPAC htdocs directory. Open the terminal into Home directory and apply the following commands.

```
sudo su
sudo mv /home/inout /usr/share/koha/opac/htdocs
cd /usr/share/koha/opac/htdocs
chmod 777 -R inout
```

Setup the database:

Open the terminal and apply the following commands.

```
sudo su
mysql -uroot -p
[Enter MySQL Root password]

create database lib;
grant all privileges on lib.* to 'root'@'localhost' identified by
'mysqlroot';
flush privileges;
Quit;
```

Where 'root' is the username and 'mysqlroot' is the password.

Now restore the sample database which is present in the 'inout' directory by applying following command in terminal.

```
sudo su
mysql -uroot -p lib < lib.sql
[Enter MySQL Root password]
```

Replace your password in the file dbconn.php located in inout directory at the line number 3.
The system is ready now.

You can access it at address given below:

<http://localhost/inout/login.php>

Installation using git repository:

Note: Php should be installed first.

Install GIT.

```
sudo apt-get update
Sudo apt-get install git
```

Goto the following location

```
cd /usr/share/koha/opac/htdocs
```

Open Terminal and type the following command

```
git clone --recursive https://github.com/omkar2403/inout.git
```

Setup the database as shown above.

Replace your password in the file dbconn.php located in lib directory at the line number 3.
The system is ready now.

You can access it at address given below:

<http://localhost/inout/login.php>

How to use it??

Logins:

There are 3 users for In Out System.

1. Operator (Controls Display Screen / main screen)

username : user

password : 123456

2. Admin of library (Controls Single library / location admin panel and reports)

username : admin

password : library

3. Master (Controls all the library / location admin panel and reports)

username : master

password : superuser

Initial Setup:

- At the initial state first login through master login.
- Select location as master when you login as master each time.
- After login click on setup button.
- You need to add location first. Add it using add new location panel at the 4th position.
- After that you can change college/institution name, library closing time, passwords of admin and user.
- You must provide patron category code for staff obtained from koha to the respected field for display the statistics of staff on main screen.
- Then logout from master.

User Panel Access:

- login as operator to open the entry screen.
- Select library name as location while login as operator.
- This will display at the entrance of the library.
- Connect the barcode scanner to it. Then it'll start taking entries.
- User have to scan their id while entering into library and also exiting the library.

Admin Panel Access:

- From another system which is connected in LAN with koha system you can access the admin panel of each location.
- login with the admin credentials and select the respected library.
- It show the reports panel. There are three types of report. Each one can be displayed or exported into excel sheet and PDF files.

Any queries contact us.

Omkar Kakeru

KLE Dr. M. S. Sheshgiri College of Engineering & Technology, Belagavi

omkar.kakeru@gmail.com