

Mahon's Library Manual



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2º DAW

Library Manual

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Introduction

This is the user manual for the library. Here you will find a manual for the administrator of the library, a manual for the guest of the library and a manual for the guest.

Also you'll find a technical manual for another programmer, to maintain and improve the software, and a installation manual for a junior programmer to go to install the software to another place.

With this library we have follow some steps to create it, at first we create all the database but then we find at the middle of the project that we need some things more in the database and we added it later. But in this manual, the installation manual, I'll provide all the sql commands ready to use.

Then we create the base of the page, the structure and the directories to do it all well organized.

Finally we have been working on the php and a bit on the css.

The project have had 3 steps:

- The project bronze which it has:
 - Ugly appearance, no styling
 - All HTML forms to enter data
 - All PHP files to capture information from the HTML forms and connect to the SQL database
 - Reservations with manual date introduction.
 - index_guest.php, index_member.php, index_librarian.php to give each user the appropriate capabilities
 - Action buttons can all be on the same page.
- The project silver with:
 - Basic styling with personal CSS or CSS libraries (bootstrap or materialize)
 - HTML & PHP code injection protection
 - Reservations with automatic date calculation (initial date, final date, x days penalty for returning books x days late)
 - Login validation form and opened sessions for users, to give them the appropriate capabilities.
 - Action buttons can be distributed on different pages.
- The project gold:
 - Fine styling with personal CSS or CSS libraries (bootstrap or materialize)
 - Incorporate ebooks to the library.
 - Include images of the book covers.

- Include images for book_types (paper, ebook).
- Possibility of downloading ebooks with a maximum of 10 ebooks per user.
- Possibility of borrowing a maximum of 3 books on paper per member.
- Possibility of uploading one or multiple files by the librarian, through a form, to a chosen directory.
- Action buttons distributed in a logical way (in the right context).
- Autofill capabilities for update forms, so the user only has to modify the desired fields.
- New functionalities unexpected by the customer.
- Improved UI & UX (User experience)

User Manual

Librarian

In the web page you have some different functionalities, you can delete, insert, update, search and reserve a book. Also you can see all the books that have been reserved and when they have to be returned.

In the search page you have two options, search all the books or you can filter a book by name, author, category, language or editorial. In this page you will see all the books available and the books that are currently reserved too.

Libreria Mahon

[Home](#)[Buscar libros](#)[Editar libros](#)[Eliminar libros](#)[Agregar libros](#)[Reservar libro](#)

0

0 libros que tenemos en la biblioteca disponibles en este momento.

Buscar libros


Filtrar por:

Título

Filtrar

Buscar todos

Libros disponibles

Image	Title	Author	Editorial
	Did I Mention It I Miss You	Estelle Maskame	Black and White

In the edit page you have to select a book of the list of books and then will appear on the form all the information of the book. Then you can change the information you want.

Elige un libro

Libros:

Seleccionar un libro ▼

Seleccionar

Datos del libro

Title

Did I Mention It I Love You

 Author

Estelle Maskame

ISBN:

11-11-00

 Editorial:

Black and White

Category:

Juvenil

 Language:

en

Location:

1 ▼

Update image

Seleccionar archivo

 Ningún archivo seleccionado

Actualizar

In the delete page is the same of the edit page, you select a book of the list of books, then the information of the book it will appear on the form but you can not edit this form, you only can delete the book with the button, nothing else.

In the insert page you have a form with all the inputs that you have to fill and the button insert to add the new book. If it's possible, we recommend to always put an image of the book.

The image of the book that you are going to insert, before you insert it you have to redimension the image with some image editing program. The height of the image it has to be of 170 pixels and the width 111 pixels. If you don't redimension the image, this it will appear ugly and different of the other images in the page.

Datos del libro

Title	<input type="text"/>	Author	<input type="text"/>
ISBN:	<input type="text"/>	Editorial:	<input type="text"/>
Category:	<input type="text"/>	Language:	<input type="text"/>
Locations:	<input type="text" value="Selecciona ubicación ▼"/>		
Select image	<input type="text" value="Seleccionar archivo"/>	Ningún archivo seleccionado	

Enviar

In the reserve page you have to search your book that you want to reserve and to make it easy, it has a filter to search it. You can filter by name, author, editorial, category and language, when you press the button filter it will appear all the books filtered. Then you select the book, your user name and press the reserve button!

Elige un libro

Filtrar por:

Filtrar



Reserva el libro

Libro

Miembro:

Reservar

In the page of all the reserved books you can see all the books that are currently booked, this page it shows you the initial date of the reserve and the date that it has suppose to be returned. You can select any of this and return it to the library. You have a select to select the book and a button to return it. Easy!

	Did I Mention I Love You	Franklin	2019-12-13	2020-01-12
	Did I Mention I Need You	Soy	2019-12-14	2020-01-13

Elige una reserva

Libro

Devolver Libro

We have considered to put a penalization when the user is returning a book late, if this is the case, then in the page it will appear to you the penalization time of the user. **Warning: The penalization is not yours, is to the user that is returning the book late!**


Finally in the home page you can log out your session. And that's all!

Member


In the web page you have some different functionalities, you can search and reserve a book. Also you can see the books you have reserved and when you have to return it.

In the serach page you have two options, search all the books or you can filter a book by name, author, category, language or editorial. In this page you will see all the books available and the books that are currently reserved too.

Libros disponibles

Image	Title	Author	Editorial
	ShadowHunters: City of Bones	Cassandra Clare	Simon & Schuster

Libros reservados

Image	Title	Author	Editorial
	ShadowHunters: City of Ashes	Cassandra Clare	Simon & Schuster

In the reserve page you have to search your book that you want to reserve and to make it easy, it has a filter to search it. You can filter by name, author, editorial, category and language, when you press the button filter it will appear all the books filtered. Then you select the book, your user name and press the reserve button!

Elige un libro

Filtrar por:

Filtrar


Reserva el libro

Libro

Miembro:

Reservar

In the page of your reserved books you can see all the books that you have currently booked, this page it shows you the initial date of the reserve and the date that it has suppose to be returned.

Image	Title	Member	Initial date	Final date
	Did I Mention It I Love You	Franklin	2019-12-13	2020-01-12


In the home page you can log out your session.

Guest


In the web page you have some different functionalities, you can search a book and you can register to the library.

In the search page you have two options, search all the books or you can filter a book by name, author, category, language or editorial. In this page you will see all the books available and the books that are currently reserved too.

Libros disponibles

Image	Title	Author	Editorial
	ShadowHunters: City of Bones	Cassandra Clare	Simon & Schuster

Libros reservados

Image	Title	Author	Editorial
	ShadowHunters: City of Ashes	Cassandra Clare	Simon & Schuster

In the register page you have a form where you have to insert your information. Some of this information is required. When you have already fill in all the inputs of the form you only have to press the button to submit your information. Then you can return to the home page and login.

Datos del usuario

Nombre Apellido

Email: Número de móvil:

Contraseña:

Enviar

Installation Manual

This is the installation manual. In this manual you will find all you need to create the database and all the tables needed.

You have too the sql command you will need to insert all the books of Es Migjorn.

Create Database

First we have to create the database and the tables, here is the sql code to create it:

```
CREATE DATABASE IF NOT EXISTS library;

USE library;

CREATE TABLE IF NOT EXISTS location
(
    location_ID INT NOT NULL AUTO_INCREMENT,
    room INT NOT NULL,
    module INT NOT NULL,
    shelf INT NOT NULL,
    shelf_position INT NOT NULL,

    CONSTRAINT PK_location PRIMARY KEY (location_ID)
);

CREATE TABLE IF NOT EXISTS book
(
    book_ID INT NOT NULL AUTO_INCREMENT,
    title VARCHAR(200) NOT NULL,
    isbn VARCHAR(11) NOT NULL,
    author VARCHAR(100),
    editorial VARCHAR(100),
    category VARCHAR(50) NOT NULL,
    language VARCHAR(50) NOT NULL,
    location_ID INT NOT NULL,
    image VARCHAR(100),

    CONSTRAINT PK_book PRIMARY KEY (book_ID),
    FOREIGN KEY fk_location_ID (location_ID) REFERENCES location(location_ID) ON DELETE RESTRICT ON UPDATE CASCAD
);
```

```

CREATE TABLE IF NOT EXISTS member
(
    member_ID INT NOT NULL AUTO_INCREMENT,
    name VARCHAR(100) NOT NULL,
    lastname VARCHAR(100) NOT NULL,
    email VARCHAR(100) NOT NULL,
    phone INT NOT NULL,
    admin INT DEFAULT 1,
    password VARCHAR(200) NOT NULL,
    next_allow_reservation DATE NULL,

    CONSTRAINT PK_member PRIMARY KEY (member_ID)
);

CREATE TABLE IF NOT EXISTS reservation
(
    book_ID INT NOT NULL,
    member_ID INT NOT NULL,
    initial_Date DATE NOT NULL,
    final_Date DATE NOT NULL,
    real_Final_Date DATE,

    CONSTRAINT PK_reservation PRIMARY KEY (book_ID,member_ID),
    FOREIGN KEY fk_book_id (book_ID) REFERENCES book(book_ID) ON DELETE RESTRICT ON UPDATE CASCADE,
    FOREIGN KEY fk_member_id (member_ID) REFERENCES member(member_ID) ON DELETE RESTRICT ON UPDATE CASCADE
);

```

There are all the tables that we need to make the page work.

Then we have to create a user with all the permissions for this database, that's because is not recommend to work always with the user root. Sometimes we can make any mistake with a sql command and it's better not do it with the user root.

```

CREATE USER 'dwes'@'localhost' IDENTIFIED BY 'dwes';

GRANT ALL PRIVILEGES ON library.* TO 'dwes';
/*asignar privilegios totales sobre la base de datos Libreria*/

```

How you can see, we create a user and then we grant permissions to this.

Populate Database with Books from Es Migjorn

In this step we are going to insert in the database the books of Es Migjorn.

```

INSERT INTO book VALUES(NULL,'Los jardines de la luna',1,'Steven Erikson','La factoria de libros','Fantasia','Español',1,NULL);
INSERT INTO book VALUES(NULL,'Los jardines de la luna2',2,'Steven Erikson','La factoria de libros','Fantasia','Español',2,NULL);
INSERT INTO book VALUES(NULL,'Los jardines de la luna3',3,'Steven Erikson','La factoria de libros','Fantasia','Español',3,NULL);
INSERT INTO book VALUES(NULL,'Los jardines de la luna4',4,'Steven Erikson','La factoria de libros','Fantasia','Español',4,NULL);
INSERT INTO book VALUES(NULL,'Los jardines de la luna5',5,'Steven Erikson','La factoria de libros','Fantasia','Español',5,NULL);

```

Check everything works

The last thing that you have to do is check that everything in the page is working. To do this you have to register a user that it will be an admin (you can change the admin status directly in the PhpMyAdmin), and then you only have to go page per page and check that it works. To be sure, when you are doing something in the page, you have to go to the phpmyadmin and check that is it really happening in the database too, this you have to do it with everything.

Technical Manual

This is the technical manual, in this manual I'll explain the structure of the project.

The project is organized in different directories, each of them are named with what they got inside. For example, the directory `css` it has the `css` file which gives style to the whole page.

Then we have, a `delete` directory with the files which are going to delete a book, a `insert` directory with the files which are going to insert a book, also we have a `reserve` directory, this has all the necessary files for the reserve page and for the page where we see all the reserves.

We have too a `member` directory, this has the register files.

Then we have the `book_img` directory, this will contain all the images that we insert with the books.

And in the 'root' directory we have the `index` for all type users, the `connect` file which has the code to make the connection to the database, the `logout.php` which it has the code to destroy the session when you logout, and the `session.php` which starts the session with the name of the user.

The `logout.php` and `session.php` it has to be on the 'root' directory because if they are in another directory it will give us an error.

The file `session.php` it has to be included in all the `php` files if we want to use the session variables correctly.

The file `connect.php` it has to be included in all the files `php` where we do a `sql`, if the file is not included the `sql` it will not work.

The rest what we need to work and improve this project is in the files. The files have comments explaining the code.