

Documentation

City Library

<https://dszkzv3o6c2jj.cloudfront.net/>

Web Programming PHP 2

Ilija Krstić 155/21

Major: Internet technologies

Module: Web programming

Subject: Web Programming PHP 2

Table of contents

Table of contents	2
1. Introduction	3
1.1 Technologies used	3
1.2 Broad description of functionality	3
General functionality	3
Home	3
Books	3
Book	3
Your books	3
Contact	3
Admin Dashboard	3
Admin Control	4
Admin Logs	4
Register	4
Login	4
2 Images of pages and descriptions of functionality	4
2.1 Home	4
2.2 Books	6
2.3 Book	6
2.4 Your books	7
2.5 Contact	7
2.6 Admin Dashboard	8
2.7 Admin Control	9
2.8 Admin Logs	9
2.9 Register	10
2.10 Login	10
3 Database Diagram	11

1. Introduction

1.1 Technologies used

Primary technologies used for this website are VueJS and bootstrap on the front end with Laravel on the backend.

The frontend and backend use JWT tokens for authentication.

1.2 Broad description of functionality

General functionality

- Dynamic menus, only showing users the links they are allowed to access
- Protection from unauthorized access both on the frontend and on the backend
- Error handling
- Success messages
- Database restores itself every fifteen minutes

Home

- Displays important information about the library
- Displays four most recent additions (books)
- Displays four most popular books.

Books

- Allows for querying books based on the text in their title, the category that they are in as well as the author of the book
- Allows for sorting books based on recency, book title, and popularity
- Displays books according to the filters and sorting mentioned above
- Displays four books at a time

Book

- Displays complete information about a given book.
- Allows for borrowing and returning books, as well as adding them to favorites.
- Soft deleted books are still accessible though their appearance and functionality are altered.

Your books

- Shows logged in users their current loans (including late), late loans, previous loans and favorites.
- Users can extend their active/current loans here as well as return them.
- Users can remove books from their favorites here.

Contact

- Allows logged in users to send messages to the admins.
- The messages are sent via email to all admins.
- A shortened version of the message is available in the admin panel.

Admin Dashboard

- Shows website admins loan statistics in an intuitive way

Admin Control

- Allows website admins broad control over all dynamically displayed items on the website, including inserting, editing, deleting, soft deleting, and restoring items.
- Allows website admins to assume the identity of any user
- Allows website admins to view messages submitted by users

Admin Logs

- Shows website admins important activities performed on the website, the time they were performed at and who they were performed by.
- Allows for filtering based on the time the actions were performed.

Register

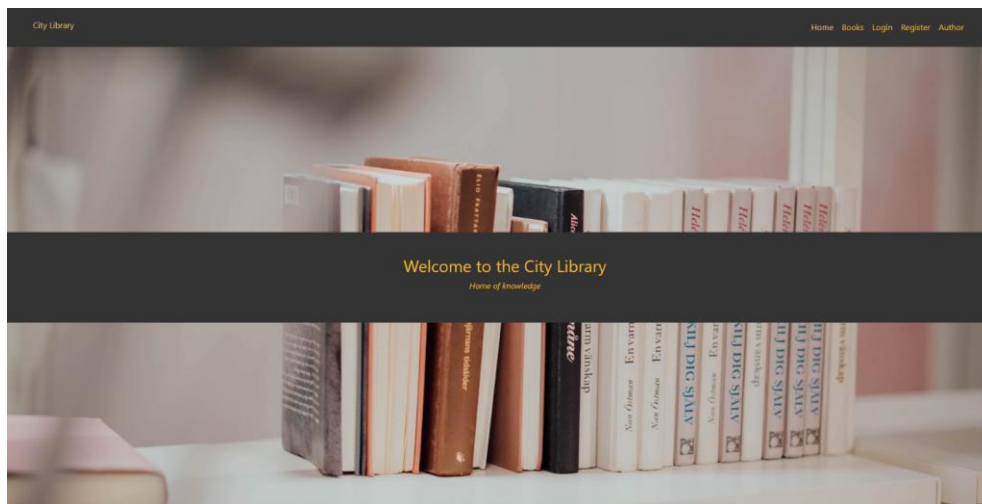
- Allows users to register to the website, allowing greater use.
- Informs the user if the email they are trying to register with is already taken.
- All passwords are stored in a hashed and salted format.
- Sends an activation email on successful registration.

Login

- Allows users who have previously registered to log in with the appropriate credentials.
- Automatically logs users with activation email in.
- Does not allow access for users whose accounts have been banned (Set to a low access level).

2 Images of pages and descriptions of functionality

2.1 Home



Recent additions

The Art of War

The art of war is a good book

History

Sun Tzu

Sapiens

A historical overview of human...

History

Yuval Noah Harari

Homo Deus

Homo Deus explores the...

Popular science

Yuval Noah Harari

The Art of Reading Minds

How would you like to know...

Popular Psychology

Henrik Fexeus

Short history

The decision to found the library was made on the 24th of October, 1930, two years later Marja RČ Agapova became head librarian.

3Members

94Years since founding

6Titles

9Lent books

Most popular books

Sapiens

A historical overview of human...

History

Yuval Noah Harari

The Art of Social Excellence

Henrik teaches a type of...

Popular Psychology

Henrik Fexeus

Numbers Don't Lie

Vaclav Smil's mission is to...

Popular science

Vaclav Smith

The Art of War

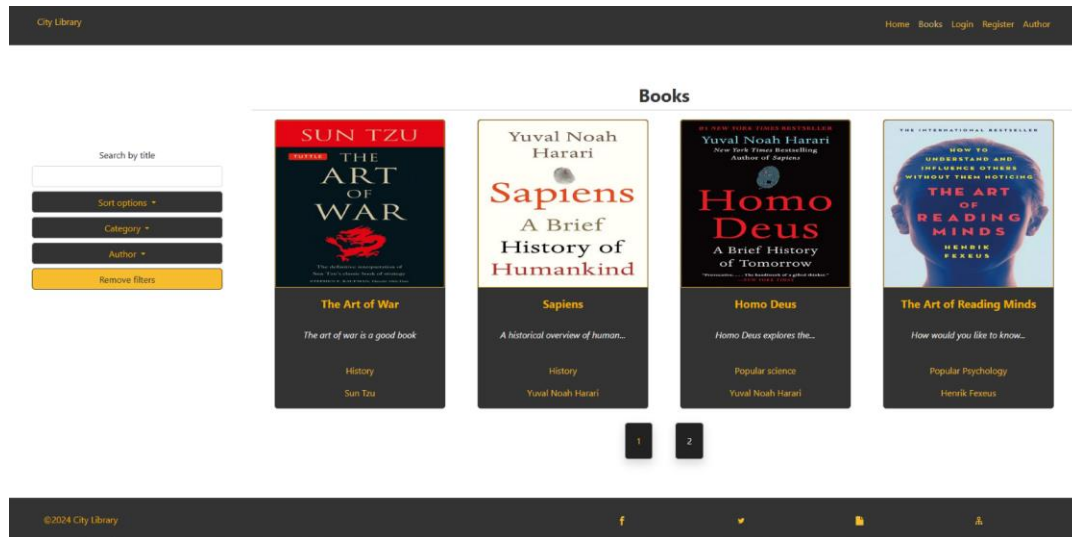
The art of war is a good book

History

Sun Tzu

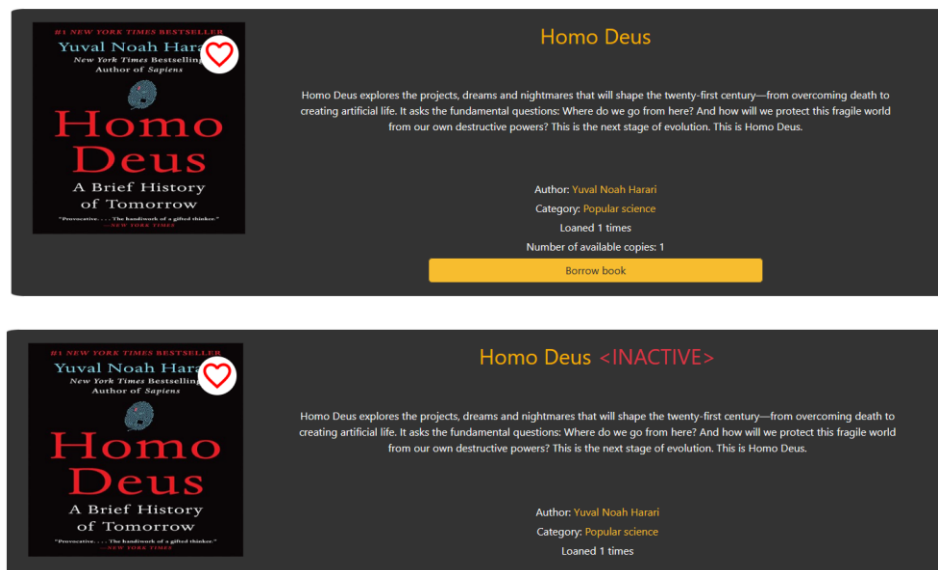
- The landing page of the website.
- Library information is provided by the backend (Bar years since founding, which is dinamically calculated).
- Any of the book preview's categories and authors can be clicked on and will take the user to the book search page with the appropriate filter set.

2.2 Books



- Allows for searching and previewing of active books based on the filters selected by the user.
- Only categories and authors with active books are shown.
- Users can sort listings by recency, title, and popularity (number of total loans).

2.3 Book



- Allows the user to obtain all information available about the select book.
- Allows the user to add/remove the book from their favorites, as well as borrow/return it.
- Loans last twenty days, and they can each be extended once for another twenty days.
- Users can still view inactive books and the loans and favorites associated with the book are not automatically removed, users still have to return their loans or have an admin do it.

2.4 Your books

Hello First Last, these are your books

Currently loaned Late Previously loaned Favorites

Loaned after mm/dd/yyyy, --:-- -- Loaned before mm/dd/yyyy, --:-- --

#	Book	Loaned on	Return by	Late	Extended	Options
1	Sapiens	2024-03-05 04:19:45	2024-03-25 04:19:45	No	No	View Return Extend
2	The Art of Reading Minds	2024-03-05 04:19:45	2024-03-25 04:19:45	No	No	View Return Extend
3	The Art of Social Excellence	2024-03-05 04:19:45	2024-03-25 04:19:45	No	No	View Return Extend
4	Numbers don't lie	2024-03-05 04:19:45	2024-03-25 04:19:45	No	No	View Return Extend

- Allows the user to view their current, late and previous loans.
- Allows the user to view their favorites.
- Allows the user to extend/return their loans.
- Allows the user to sort by book name, the start time of the loan, the time the book should be returned by and whether the loan was extended or not.
- Allows the user to filter their loans by loan start time.

2.5 Contact

Send a message to the administration team

Title

Message type

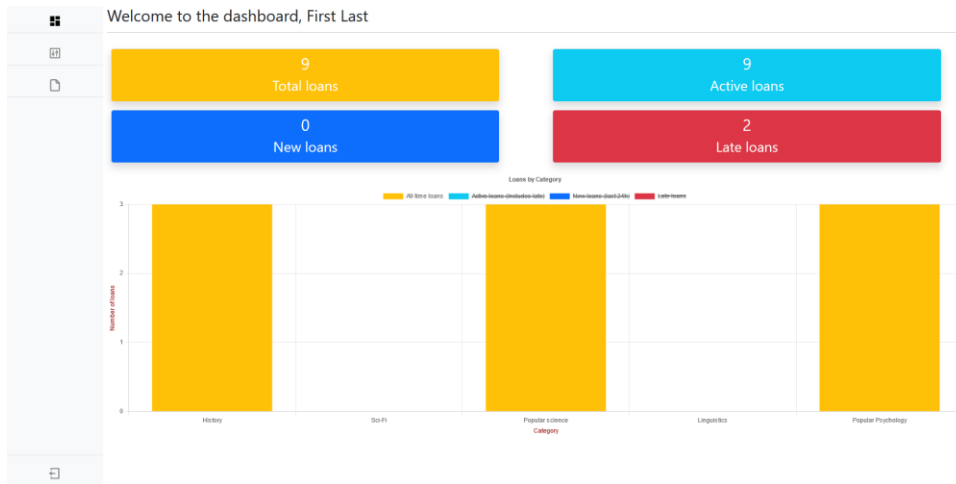
Select option

Message text

Send

- Allows logged in users to send messages to the admins.
- The messages are sent via email to all admins.
- The message types shown are defined by admins in the admin control panel.
- A shortened version of the message is available in the admin panel.

2.6 Admin Dashboard



- Total loans represents the sum of all loans ever started in the library.
- Active loans represents all loans that haven't been returned (including late loans)
- New loans represents all active loans started in the last 24 hours.
- Late loans represents all active loans that are past their return by time.
- The graph is a visualization of loan statistics by category, including inactive categories.

2.7 Admin Control

Active loans							
Late loans							
Books							
Categories							
Authors							
Links							
Users							
Message Types							
Messages							
Returned loans							
Inactive books							
Inactive categories							
Inactive authors							
Categories							
Authors							
Click to show options							
Click to show options							
#	Name	Category	Author	Created at	Active loans	Total loans	Options
1	The Art of War	History	Sun Tzu	2024-03-05 04:19:44	1	1	Edit Deactivate View
2	Sapiens	History	Yuval Noah Harari	2024-03-05 04:19:44	2	2	Edit Deactivate View
3	Homo Deus	Popular science	Yuval Noah Harari	2024-03-05 04:19:44	0	1	Edit Deactivate View
4	The Art of Reading Minds	Popular Psychology	Henrik Fexeus	2024-03-05 04:19:44	1	1	Edit Deactivate View
5	The Art of Social Excellence	Popular Psychology	Henrik Fexeus	2024-03-05 04:19:44	2	2	Edit Deactivate View
Create new book							

- Pictured above is one of the many tabs of the admin control panel, each granting the website admins great control over the content on the website.
- Some tabs allow for filtering data, the tab above allows for filtering books by categories & authors.
- Most table headers can be sorted by.
- Admins can forcibly return any loan.
- Admins can extend loans that weren't already extended.
- Admins can edit user accounts, message types, books, links, categories, authors, as well as deactivated books, categories and authors.
- Active books cannot be set to inactive categories/authors, inactive books can.
- Admins can soft delete books, categories and authors.
- Soft deleting a category/author soft deletes all associated books.
- Admins can restore deleted books, categories and authors.
- Books can only be restored if both their category and author are active.
- Admins can delete message types, messages, and links
- Admins can only delete message types that are not referenced in messages.
- Admins can create new message types, books, links, categories, and authors.
- Any change made is immediately represented.
- New categories and authors are immediately available to admins for book creation and editing.

2.8 Admin Logs

Logs			
Performed after: mm/dd/yyyy --:-- -- Performed before: mm/dd/yyyy --:-- --			
#	Actor	Action	Performed on
1	ilj@krstic.155.21@ict.edu.rs	Viewed all user loans	2024-03-07 03:45:40
2	ilj@krstic.155.21@ict.edu.rs	Viewed all user loans	2024-03-07 03:45:39
3	ilj@krstic.155.21@ict.edu.rs	Viewed all user loans	2024-03-07 03:45:39
4	ilj@krstic.155.21@ict.edu.rs	Viewed all user loans	2024-03-07 03:45:39
5	ilj@krstic.155.21@ict.edu.rs	Viewed all user loans	2024-03-07 03:45:39

- Shows website admins important activities performed on the website, the time they were performed at and who they were performed by.
- Allows for filtering based on the time the actions were performed.

2.9 Register

Become a member of the library

First name	Last name
<input type="text"/>	<input type="text"/>
Email	
<input type="text"/>	
Password	
<input type="password"/>	
Address	
<input type="text"/>	
<input type="button" value="Register"/>	

- Allows users to register to the website, allowing greater use.
- Informs the user if the email they are trying to register with is already taken.

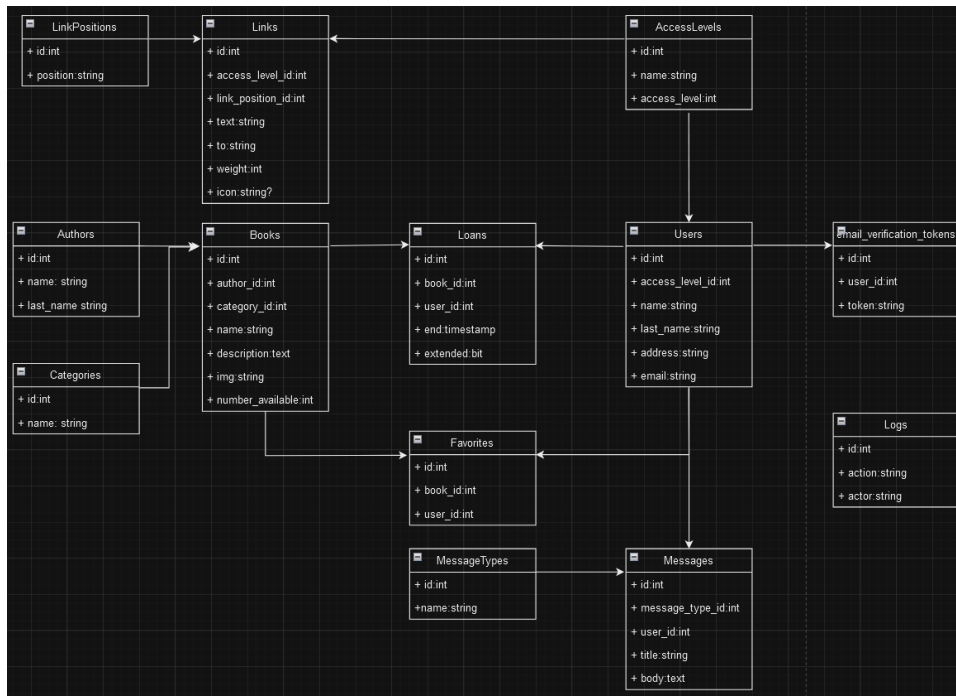
2.10 Login

Login to your City Library account

Email
<input type="text" value="ilija.krstic.155.21@ict.edu.rs"/>
Password
<input type="password" value="••••••••"/>
<input type="button" value="Login"/>

- Allows users who have previously registered at register.html to log in with the appropriate credentials.
- Automatically logs users arriving from activation email in.
- Does not allow access for users whose accounts have been set to a low access level (Below logged in).
- Comes with preset admin account credentials, allowing for anyone to play around with the website, possible due to the database resetting every fifteen minutes.

3 Database Diagram



- All tables have timestamps (created_at, updated_at).
- Tables that soft delete (books, authors, categories, loans) have deleted_at fields.