SHARK LIBRARY

OPEN SOURCE PRACTICE PROJECT

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PROJECT OVERVIEW

- **Objective:**
  - A fun parody of a shark-themed e-library to practice HTML, CSS, PHP, and MySQL implementation on a web server.
- **Key Features:**
  - Visit and download counters
  - Book previews
  - Comments
  - Searchable books
  - Book downloads

REPOSITORY LINK

https://github.com/justmadethiscalculator/SharkLibrary.git

YOUTUBE VIDEO LINK

https://youtu.be/hGDQBCrKQs8

KEY TECHNOLOGIES

Frontend

HTML/CSS for UI

JavaScript for animations

Backend

Apache2
PHP 7.4+

DATABASE

MariaDB (MySQL-compatible)

APPLICATION MODULES

1. Homepage (index.php):
   - Dynamic visit and nppl download counter.
   - Buttons linking to other sections.
2. About Page (about.html):
   - Project history and project member information.
3. Previews (preview.php):
   - Gallery of book covers.
   - Comment section.
4. Downloads (download.php):
   - Search/filter books by category/title.
   - Download books in PDF format.
   - Tracks download count.

FILE STRUCTURE

var/www/html

- **books**
  - PDF — style... (PDF file)
- **css**
  - CSS — style.css
- index.php (PHP)
- config.php (PHP)
- **pages**
  - HTML — about.html
  - PHP — preview.php
  - PHP — download.php
- **images**
- **js**
  - JS — script.js

DATABASE SCHEMA

A. The Entity-Relationship Diagram (ERD):
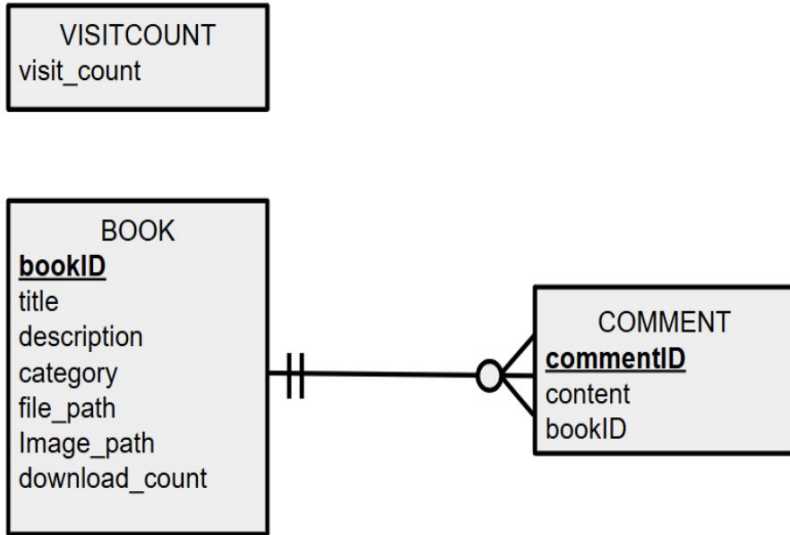
B. The Relational Model:

USER FLOW

How users interact with Shark's Library — step by step

Access the website

Type your raspberry Pi's IP address into a web browser:

For example:

http://127.0.0.1

Then the homepage should appear:

Check it out! The previews section includes:

- Many popular book titles on sharks
- Fun books about sharks
- And much more!

Previews

Downloads

Grab a copy! The downloads section includes:

- Book search function
- Information on books

Click on these buttons to access other parts of the website:

Check it out! The previews section includes:
- Many popular book titles on sharks
- Fun books about sharks
- And much more!

Every page, except for the homepage, has buttons at the top for easy navigation:

| Back to Home | About Us | Previews | Downloads |

Previews

Explore the massive collection of books here at Shark's Library! (Still expanding)

PREVIEWS

- On the homepage or from the top buttons, click the "Previews" button.
- Click on a book to view its description and comments
- Submit comments by clicking then typing in the "Comments box" and clicking "Submit Comment".
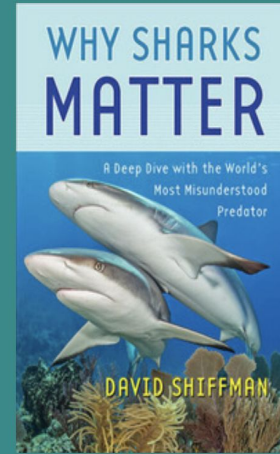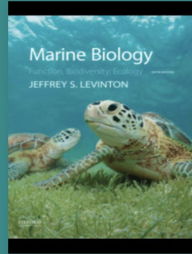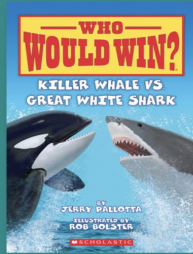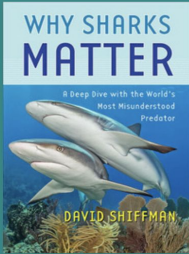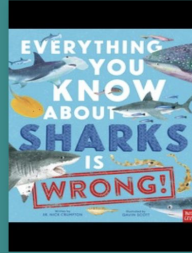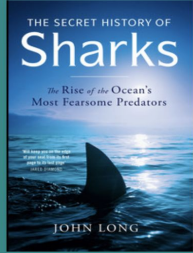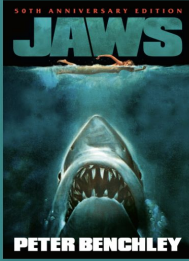
Why Sharks Matter: A Deep Dive with the World's Most Misunderstood Predator

Author: David Shiffman

Get submerged in the amazing world of sharks! Your expert host, award-winning marine biologist Dr. David Shiffman, will show you how—and why—we should protect these mysterious, misunderstood guardians of the ocean.

Comments

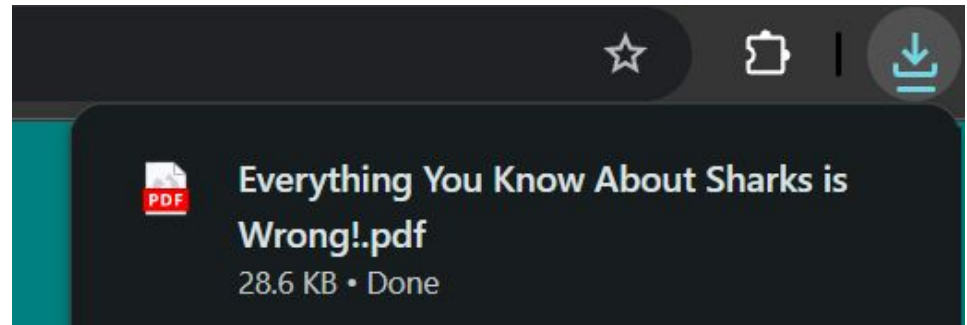Add your comment...

Submit Comment

No comments yet.

DOWNLOADS

- On the homepage or from the top buttons, click the "Downloads" button.

- A Searchable table of books is shown.

- Click and type in the search bar or use the filters to find the desired book, then press the "search" button.

- Click the download button to get a PDF.

THANK YOU!!