

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-comp
atible)

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



css



style.css



PHP

index.php



PHP

config.php

pages



about.html



PHP

preview.php



PHP

download.php

images



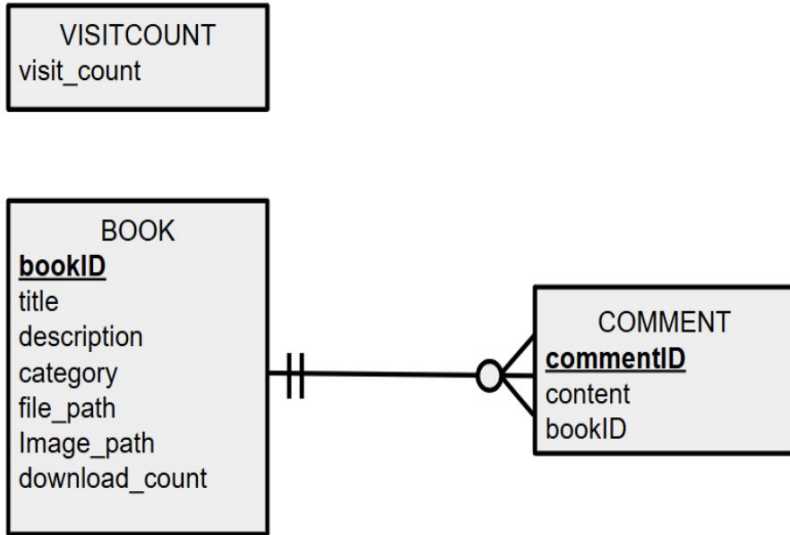
js



script.js

DATABASE SCHEMA

A. The Entity-Relationship Diagram (ERD):



B. The Relational Model:

VISITCOUNT

visit_count

COMMENT

<u>comment_id</u>	content	<u>bookID</u>
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BOOK

<u>book_id</u>	title	description	category	file_path	image_path	download_count
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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:



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:

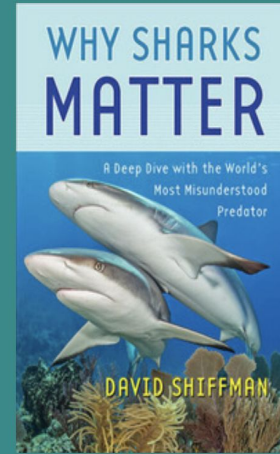
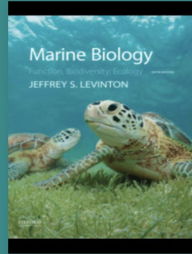
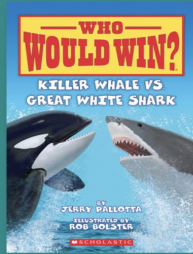
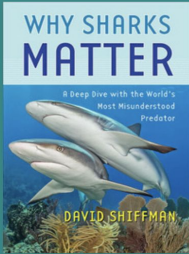
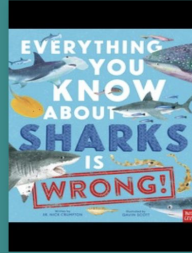
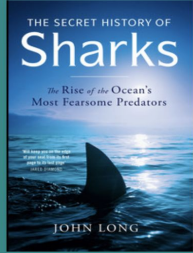
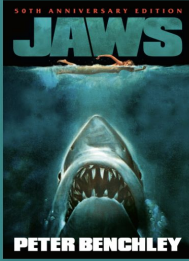


Every page, except for the homepage, has buttons at the top for easy navigation:



Previews

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



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.

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".

Comments

Add your comment...

Submit Comment






No comments yet.

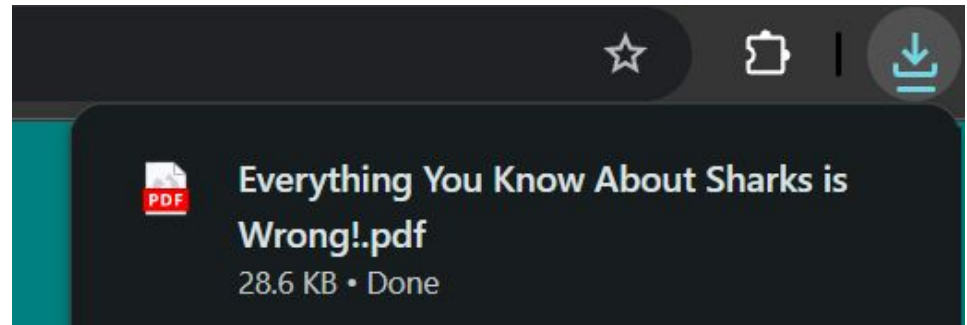
DOWNLOADS

- 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.

Downloads

Filter by: All Categories Sort by: Title (A-Z)

Cover	Title	Author	Category	Downloads	Format	Download
	Everything You Know About Sharks is Wrong!	Nick Crumpton & Gavin Scott	Non-Fiction	1	PDF	Download
	Jaws	Peter Benchley	Fiction	2	PDF	Download
	Marine Biology 11th Edition	Peter Castro & Michael Huber	Science	4	PDF	Download
	Marine Biology: Function, Biodiversity, Ecology 5th Edition	Jeffrey Levinton	Science	1	PDF	Download
	Shark Lady: The True Story of How Eugenie Clark Became the Ocean's Most Fearless Scientist	Jess Keating	Non-Fiction	2	PDF	Download



The slide features a white background with several decorative geometric elements in the corners. The top-left corner has a purple-to-blue gradient triangle. The bottom-left corner has a light gray triangle with a purple outline. The bottom-center has a blue-to-purple gradient triangle. The right edge features a light gray hexagon with a blue outline and internal purple lines, and a light gray triangle at the bottom right.

THANK YOU!!