**SHARK’S LIBRARY**

**High-Level Functionalities:**

· About Section: Provide information about the project, its history, and team members.

· Book Previews: Display a collection of shark-related books with cover images and brief descriptions.

· Download System: Allow users to search, filter, and download available books in PDF format.

· Responsive Design: Ensure the website is accessible on different devices.

· Interactive Elements: Include animations and user-friendly navigation.

· User log-in and sign-up.

· Comment sections and reviews from users.

**Scenario 1: Exploring Book Previews**

User: someone who wants to browse the book catalog and see available books

Goal: Browse available fiction books in the "Previews" section and view the information about said books.

1. User Action: The user clicks the "Previews" button on the homepage.

System Processing:

* A PHP script is triggered (e.g., previews.php)
* The data is sorted and stored.
* PHP renders the HTML for a gallery grid using the data.

System Response: The page displays a gallery of book covers.

1. User Action: The user hovers their cursor over an image.

System Response:

* A JavaScript (frontend) event triggers a hover effect.
* The image is enlarged using CSS.
* A brief book description (fetched earlier via PHP) is shown.

PHP logic and database operations:

* PHP: Handles the retrieval of preview data from the database and constructs the HTML.
* Database: Stores book data (titles, categories, descriptions, image paths).

**Scenario 2: Downloading a book**

User: someone who wants to get a copy of a book from the website.

Goal: Search and download a book in PDF format.

1. User Action: The user clicks the “Downloads” button on the homepage.

System Processing:

* A PHP script is triggered (e.g., downloads.php)
* PHP renders the HTML.
* System Response: The page displays a table with images, book details, and “Download” buttons.

1. User Action: The user uses the search bar to find a specific book.

System Processing:

* The system fetches matching books from the database.
* System response: The page updates to display the book that the user wants in the table, including a "Download" button in each entry.

1. User Action: The user clicks the “Download” button.

System Processing:

* A PHP script (e.g., download.php) is triggered with a book ID or filename.
* PHP validates the request, locates the file path, and serves the PDF file for download

PHP logic and database operations:

* PHP: processes the search input and handles the file download request, and serves the PDF.
* Database: stores book metadata (title, file name/path, etc.) and is used to search and retrieve matching records from user input.