A PROJECT REPORT

on

Industrial Training

Submitted in Partial fulfillment for the award of degree of

Bachelor of Technology (Computer Science and Engineering)



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RAMNAGARIA (JAGATPURA), JAIPUR-302017

September, 2024

ACKNOWLEDGEMENT

It is my pleasure to be indebted to various people, who directly or indirectly contributed in the development of proposed work and who influenced my thinking, behaviour, and acts during the course of study.

I express my sincere gratitude to **Dr. Mehul Maharishi**, Professor and Head, **Department of Computer Science** and Engineering for providing me an opportunity to undergo In-house Internship programme at SKIT, Jaipur. I am thankful to **Mr. Manish Bhardwaj**, Coordinator (II-year In-house internship 2024-25), for his support, cooperation and motivation provided during the internship for constant inspiration, presence and blessings. I also extend my sincere appreciation to **Mr. Manish Bhardwaj**, **Mr. Sumit Kumar**, **Mr. Pawan Kumar Patidar**, **Ms. Mamta Sakpal**, **Mr. Loveleen Kumar**, **Mr. Madhav Khatri**, **Ms. Surbhi Sharma and Ms. Priyanka Sharma** who helped me in learning HTML, CSS, JAVASCRIPT, PHP and SQL.

I also extend my I also extend my sincere appreciation to **Dr. Megha Gupta** who flourished and helped me in lab sessions conducted during internship.

I also extend my sincere appreciation to **Dr. Megha Gupta** who provided his valuable suggestions and precious time in accomplishing my report.

At last, I must express my sincere heartfelt gratitude to all the staff members of Department of Computer Science and Engineering, who helped me directly or indirectly during this course of work.

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INTRODUCTION

1.1 Problem Identification



The project aimed to solve the challenge many readers face when trying to access both digital and physical books from scattered and unreliable sources. Book lovers often struggle to find legitimate links for free e-books or reliable vendors for purchasing hard copies. Navigating through multiple websites is time-consuming and frustrating, especially with inconsistent quality, ads, and complex interfaces.

This project offers a streamlined, user-friendly platform that consolidates these resources, allowing readers to easily find

and access both e-books and hard copies. The website aggregates free e-books from trusted sources and provides direct links to purchase physical books from reputable sellers. With a simple interface, users can search, explore curated lists, and compare prices without hassle.

Ultimately, this project delivers a centralized solution, making it easier for book enthusiasts to discover and enjoy their favorite books in both formats.

1.2 Project Scope



The scope of this project involves designing and implementing a fully functional website that allows users to browse, search, and access books in both digital and physical formats. The platform is designed to:

- Provide easy access to books across various genres, including fiction, non-fiction, academic, and more.
- Feature a search function to locate books by title, author, or genre.
- Offer a user-friendly interface that ensures seamless navigation for all types of users.
- Facilitate book listings with direct links to free e-books and purchasing options.
- Enable future scalability, such as introducing user accounts and personalized recommendations.

1.3 Intended Users

The website caters to four primary user groups:

1. Readers



Readers of all ages seek free and paid access to a variety of books. The platform simplifies their search for both digital and physical literature, making it easy to discover new titles and authors.

3. Students



Students require access to textbooks and reference materials. With financial constraints in mind, the website aggregates educational resources, providing links to free e-books and affordable hard copies.

2. Authors



Authors use the platform to promote their books. Independent and established writers can showcase their works, gaining visibility and connecting with readers, which helps in building their readership.

4. Libraries



Libraries assist in promoting literacy, and librarians can use the website to guide users toward available reading resources. By offering curated lists and recommendations, the platform enhances library outreach.

1.4 Tools and Technologies

This section outlines the essential tools and technologies employed in the development of the website. The project utilizes the following technologies:

• Frontend Development:

- o **HTML**: For structuring the web content.
- CSS: For styling and layout.
- JavaScript: To add interactivity and dynamic elements.



• Backend Development:

- PHP: For server-side scripting and handling database operations.
- MySQL: For database management, storing user data and book information.



• Development Tools:

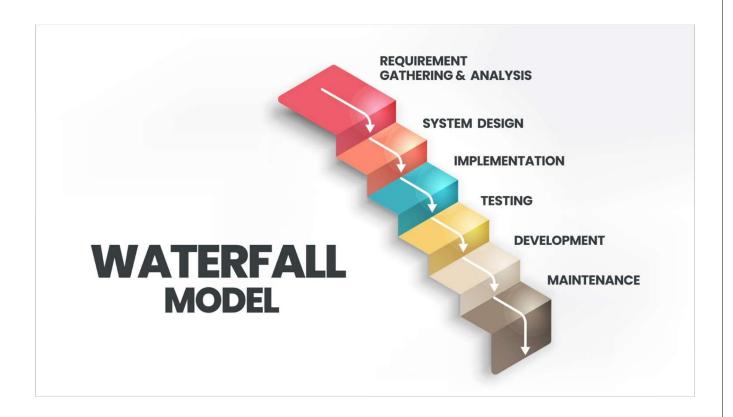
Text Editor: Software such as Visual Studio Code or Sublime
 Text for coding.



METHODOLOGY

2.1 Software Model Used

For this project, the **Waterfall Model** was chosen due to its straightforward, linear approach, which is particularly well-suited for projects with clearly defined objectives and requirements. This model allows for a systematic progression through each phase of development, ensuring that each stage is completed before moving on to the next. This structured process not only enhances project management but also facilitates effective communication among team members.



The Waterfall Model is a systematic approach to software development, comprising distinct phases:

1. Requirement Analysis:

The project team begins by gathering and documenting the core problem the website aims to solve. They identify the target audience and their needs, creating a comprehensive requirements document to guide the development process.

2. System Design:

After requirements are established, the team designs the website's architecture. This includes creating a database schema and defining the layout and interaction flow. Wireframes and prototypes are developed to visualize the design and gather feedback.

3. Implementation:

This phase involves actual development. Frontend developers create the user interface, while backend developers implement server-side logic and database interactions. Collaboration ensures seamless integration of all components to deliver a cohesive website.

4. Testing:

Rigorous testing follows development to ensure functionality. Methods like unit testing, integration testing, and user acceptance testing evaluate performance and compatibility. This phase helps identify and resolve issues before deployment.

5. Deployment:

Once testing is complete, the website is deployed on a local server using XAMPP, simulating real-world conditions for user access and interaction.

6. Maintenance:

Ongoing maintenance involves monitoring the site for bugs, implementing features, and ensuring it remains user-friendly and relevant. Regular updates are essential to maintain user satisfaction.

DEPENDENCIES

3.1 Hardware Requirements

For the successful development and testing of the project, the following hardware setup was utilized:

- Laptop: An Intel i5 processor with 8GB of RAM was used, providing ample processing power for coding and running multiple applications simultaneously. This configuration ensured smooth performance during the development and testing phases, allowing for efficient multitasking without lag.
- **Development System**: The project was developed on **Windows 11**, which offers a user-friendly interface and robust development tools. This operating system supports various software applications, making it easier to implement and test the website features effectively.
- **Display**: The laptop's built-in display, featuring **1080p resolution**, provided clarity during development and allowed for effective UI/UX testing. The high resolution ensured that design elements were sharp and easy to evaluate.
- **Peripherals**: A standard keyboard and mouse were utilized for navigation and coding. A comfortable keyboard facilitated long coding sessions, while an ergonomic mouse improved precision during design adjustments.

This hardware setup was integral to the project's success, enabling efficient development, thorough testing, and an overall enhanced user experience.

3.2Software Requirements

This section specifies the software environment necessary for running and developing the website:

• Web Server:

o **Apache**: Used to host the web application, Apache is a widely used open-source web server software that provides a robust platform for serving web content. It supports various web technologies, ensuring that the application runs smoothly and efficiently.

• Database Server:

MySQL: This relational database management system is used to manage and store the database for the website. MySQL offers high performance and reliability, making it ideal for handling the data associated with users, books, and other application features.

• Operating System:

o The project is compatible with **Windows**, **macOS**, **or Linux**, allowing flexibility in both development and deployment. This cross-platform capability ensures that the website can be accessed and modified regardless of the underlying operating system.

• Browser:

Modern Web Browsers: Testing the website functionality and user experience is conducted using up-to-date versions of web browsers such as Google Chrome, Mozilla Firefox, and Microsoft Edge. These browsers support the latest web standards, ensuring that users experience consistent performance and usability.



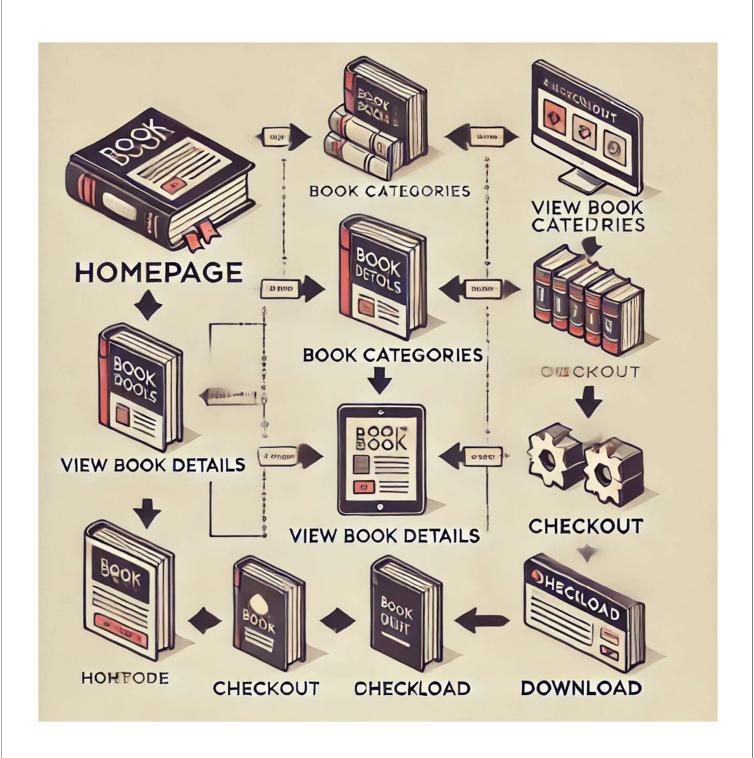
IMPLEMENTATION AND TESTING

4.1 Flow Chart

The flow chart below illustrates the user interaction with the book website, showcasing the journey from landing on the homepage to completing a purchase or download.

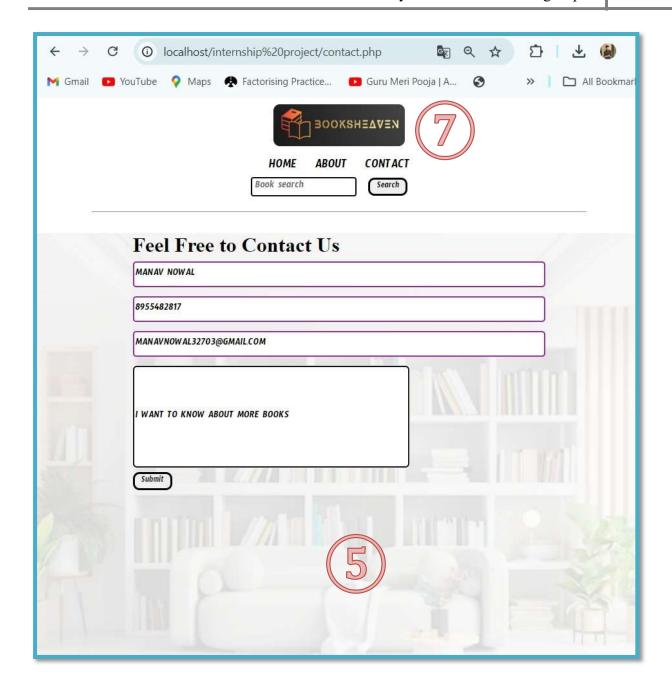
- 1. **Homepage**: Users start at the homepage, which serves as the central hub for navigation.
- 2. **Navigating Book Categories**: From the homepage, users can select options such as "Book Categories" to explore various genres. This helps users quickly find the type of books they are interested in.
- 3. **Viewing Book Details**: Once a category is chosen, users can view detailed information about specific books, including descriptions, reviews, and available formats.
- 4. **Checkout Process**: After selecting a book, users have the option to either check out a physical copy or download a digital version. The flow chart provides clear pathways for both actions, ensuring that users can easily complete their transactions.
- 5. **Download Option**: If a digital book is selected, users will be directed to the checkout for the download, ensuring a seamless experience from browsing to accessing their chosen literature.

This flow chart serves as a visual representation of the interactive processes' users engage with while utilizing the website, highlighting the efficiency and ease of navigation designed to enhance user experience.

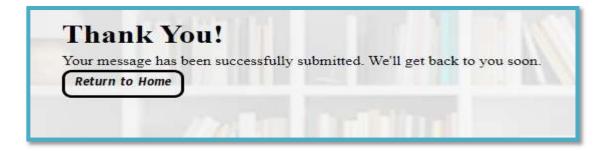


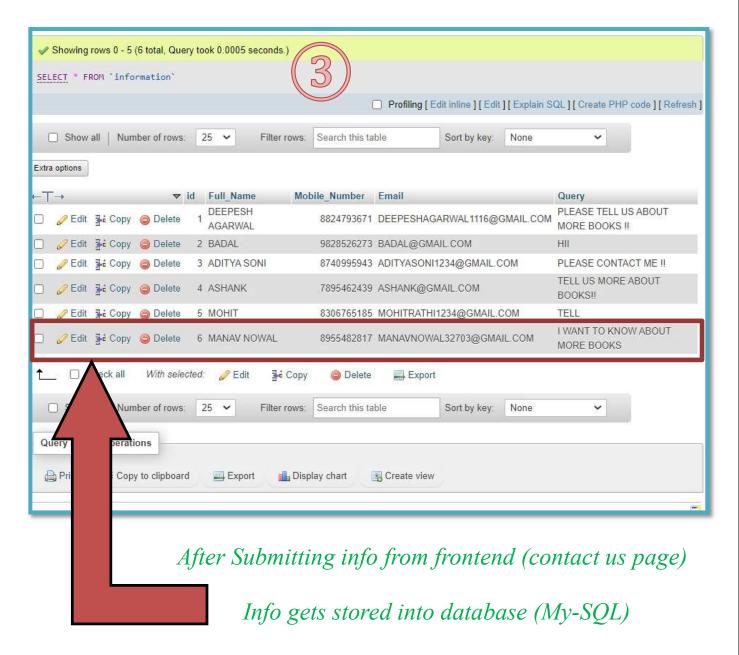
4.2 Database Code & Snapshots

```
🐄 information.php 🗙 💮 thankyou.php
                                                            # mobile.css
                                                                             m book3.php
                                                                                              m book4.php
                                                                                                                                                    m book8.ph
m information.php > ...
       $Full_Name=$_POST['Full_Name'];
      $Mobile_Number=$_POST['Mobile_Number'];
      $Email=$_POST['Email'];
      $Query=$_POST['Query'];
       if(empty($Full_Name)||empty($Mobile_Number)||empty($Email))
           $_SESSION['error']="please fill the blank fields ";
header(header: "location:".$siteurl."/contact.php");
           $$q1="INSERT INTO INFORMATION (Full_Name, Mobile_Number, Email, Query) VALUES ('$Full_Name', '$Mobile_Number', '$Email', '$Query')";
            if(mysqli_query(mysql: $conn,query: $sql))
                $_SESSION['success']=$Full_Name;
                header(header: "location:".$siteurl."/thankyou.php");
                echo "error: ".mysqli_error(mysql: $conn);
```

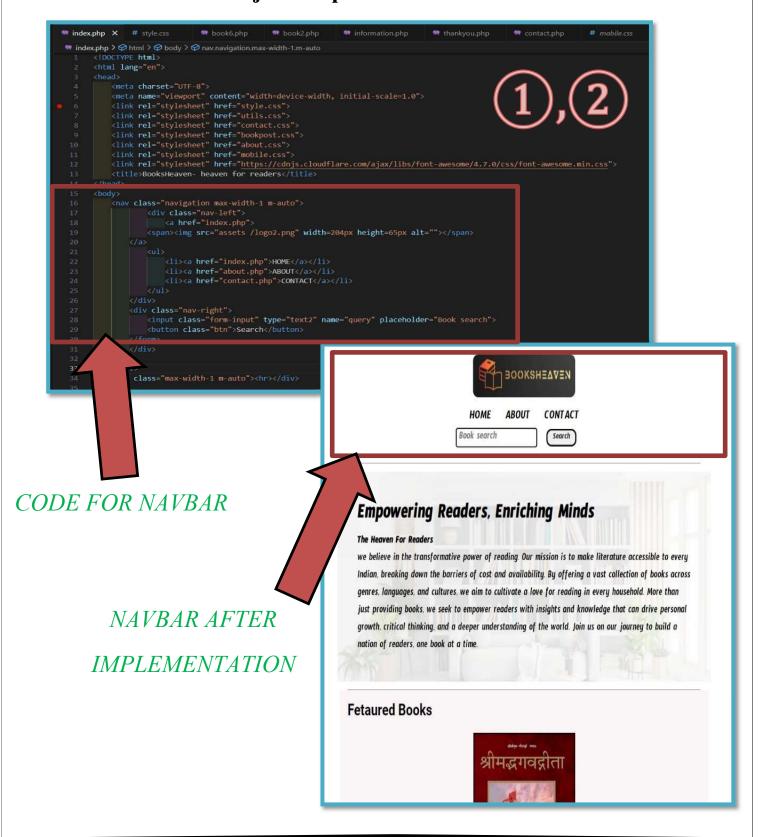


After Submitting, thank you window appears!!





4.3 Code and Project snapshots





NOW OPENING ONE OF THE FEATURED BOOKS: SHRIMAD BHAGWAD GITA



CODE OF BOOK

IMPLEMENTATION OF CODE



Bhagavad Gita is a 700-verse Hindu scripture that is part of the Indian epic Mahabharata. It is a sacred text of the Hindu religion and is considered one of the most important spiritual classics in the world. The Gita is a conversation between Prince Arjuna and the god Krishna, who serves as his charioteer.

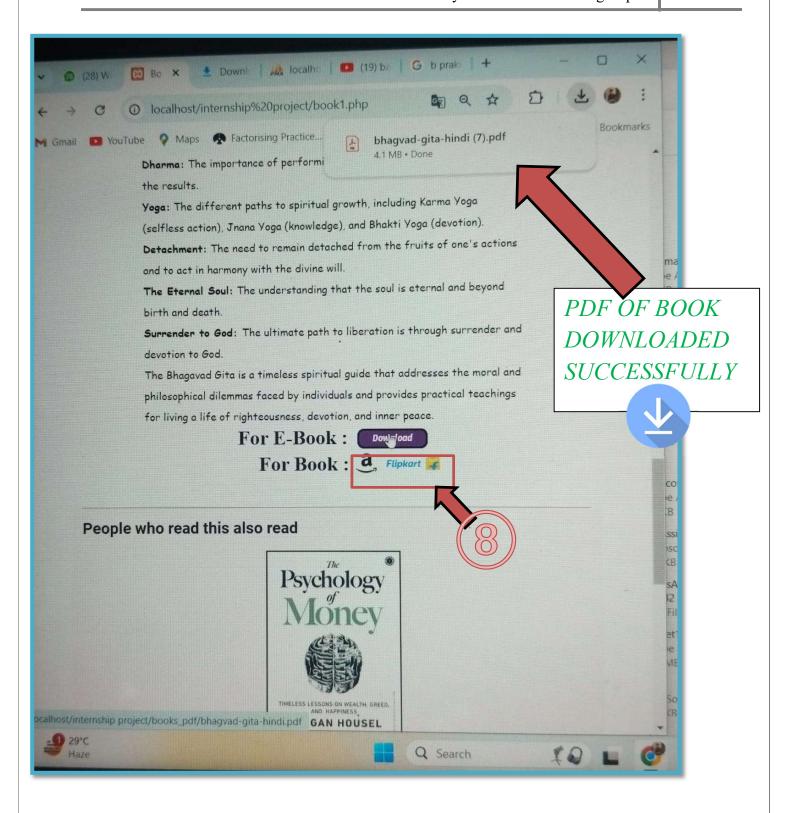
1. Arjuna's Dilemma (Chapters 1-2):

The Gita begins on the battlefield of Kurukshetra, where the Pandavas and the Kauravas are preparing for war. Arjuna, a warrior prince of the Pandavas, is filled with moral confusion and sorrow at the prospect of fighting his own family, friends, and teachers. He questions the righteousness of the war and refuses to fight. In response, Krishna begins to counsel Arjuna, teaching him about his duties as a warrior and the nature of life and death.

2. The Path of Selfless Action (Karma Yoga) (Chapters 3-6):

Krishna explains the concept of Karma Yoga, the path of selfless action. He advises Arjuna to perform his duties without attachment to the results, acting in accordance with his dharma (duty) as a warrior. Krishna emphasizes that actions should be done for the sake of the greater good and in service to God, without selfish desires or personal gain.

3. The Path of Knowledge (Jnana Yoga) (Chapters 7-12):



CONCLUSION AND FUTURE SCOPE

5.1 Conclusion

The development of the **BooksHeaven** website successfully addresses the identified problems faced by book lovers, students, authors, and libraries by providing an organized, easily navigable platform for both digital and physical books. The website aggregates free e-book resources and guides users to purchase physical copies, ensuring accessibility for a wide audience. The structured approach taken in the project, including the use of the Waterfall Model, allowed for systematic progress through the various stages of development, from gathering requirements to implementation and testing. The platform has been designed with a user-friendly interface, making it easy for all user types to search, explore, and acquire books. Moreover, the successful deployment on a local server demonstrates that the website is ready for real-world usage. Overall, the project met the initial goals and provided a valuable solution to the problem of accessing and discovering books, enhancing the reading experience for users. The project development also served as a learning experience for implementing web development technologies, database management, and UI/UX design.

5.2 Future Scope:

Looking ahead, several enhancements can be made to improve the functionality and reach of the BooksHeaven platform. Some potential areas for future development include:

1. User Accounts and Personalization:

Implementing user login functionality that allows personalized book recommendations, based on previous searches and purchases. This will create a more tailored experience for each user.

2. Advanced Search and Filters:

Adding more sophisticated search and filtering options, allowing users to search by author, publication date, genre, and user ratings. This would enhance the overall user experience, especially for readers looking for specific content.

3. Mobile Optimization:

Expanding the website's design to be fully optimized for mobile users. A responsive design would ensure seamless functionality across all devices, including smartphones and tablets.

4. Integration with Online Retailers:

Partnering with major online retailers like Amazon or Flipkart to streamline the purchasing process for physical copies, offering users more options and better prices.

5. Cloud Deployment:

Deploying the website on a cloud server for public access, which would ensure higher availability, better scalability, and secure handling of user data.

6. Community Features:

Introducing community features such as book clubs, forums, and review sections where readers can engage with one another, discuss books, and share recommendations.

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