



E-Library Management
System

PROJECT REPORT

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INTRODUCTION

This report presents the results of the development of a "Library Management System" as part of our major project. The main objective of this project was to create a digital platform that would enable users to easily access books and learning materials. The system was developed using HTML, CSS, JavaScript, PHP and MySql.

The website was designed with the user experience in mind, with clear navigation and search functionality to help users find the books they need. Overall, the Library Management System is a user-friendly and secure digital platform that promotes learning and knowledge-sharing. It is accessible on various devices and screen sizes, and we hope it will serve as a valuable resource for students, teachers, and book lovers alike.

Goals

1. Book Sharing
2. Resources Stock
3. Online Reading
4. Curriculum notes & question paper availabilities

Tool Descriptions

User Interface:

The UI is very user friendly and a web browser is needed for the communication between the user. The website interface is Graphical User Interface and there are various buttons performing different task according to the need. Different icons, fonts, colors are used in the web page for decorative of the website.

Features:

- Book Sharing
- Online Book Reading
- No Limitation and Restrictions
- User's Support
- More than a Library(i.e: including Projects, Articles)

We Provide features like book sharing, online book reading in digital platform with multiple access and easy to use interface.

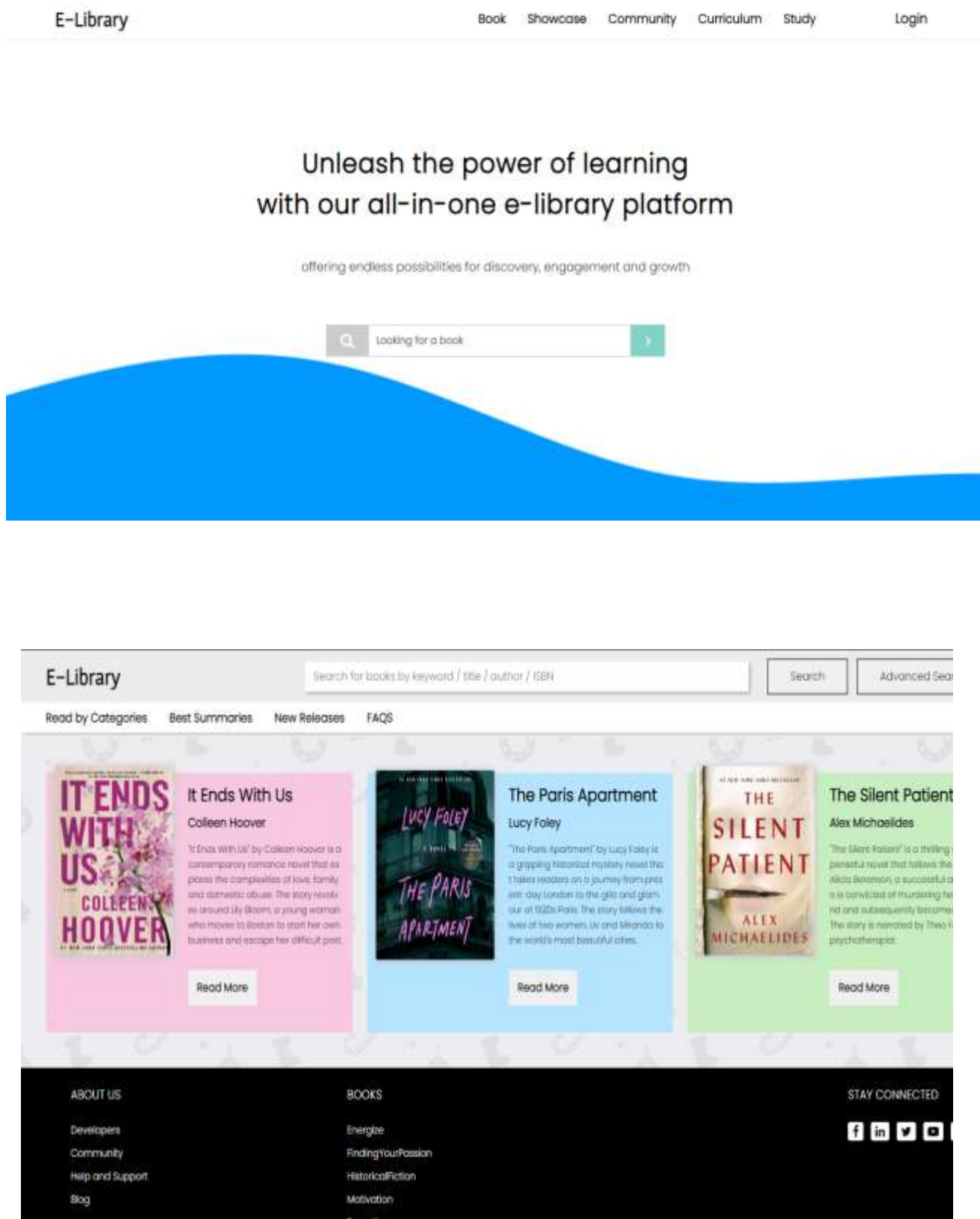
Architecture & Design

The website was developed using several programming languages, including HTML, CSS, JavaScript, PHP, and MySQL. The combination of these languages allowed for the creation of a functional and user-friendly digital platform. Users can easily access books and other learning materials through the website, making it a valuable resource for students and book lovers.

The website's design is simple and intuitive, with clear navigation and user-friendly interfaces. Users can easily search for books by title, author, or subject, and the website provides information on the availability of each book. Reading any available book is also made easy through the website. Users can browse through the different categories of books and access them through a simple and easy-to-use interface.

Overall, the website provides a simple and effective way for users to access and learn from a range of books and learning materials.

The UI design of website looks like this:



Coding

The coding section of this project report provides an overview of the programming languages and development processes used in the creation of the Library Management System.

```
<?php
    include "../src/connection.php";
    date_default_timezone_set('Asia/Kathmandu');
    session_start();
    ob_start();
?>

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
START TRANSACTION;
SET time_zone = "+05:45";
--
-- Database: `elibrary`
--

CREATE TABLE `admin` (
  `id` int(11) NOT NULL,
  `username` varchar(100) NOT NULL,
  `email` varchar(100) NOT NULL,
  `password` varchar(100) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

CREATE TABLE `donate` (
  `id` int(11) NOT NULL,
  `name` varchar(200) NOT NULL,
  `faculty` varchar(200) NOT NULL,
```



```
`file` longblob NOT NULL,  
`date` varchar(200) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;  
CREATE TABLE `books` (  
  `id` int(11) NOT NULL,  
  `isbn` varchar(200) NOT NULL,  
  `name` varchar(200) NOT NULL,  
  `author` varchar(200) NOT NULL,  
  `language` varchar(200) NOT NULL,  
  `genre` varchar(200) NOT NULL,  
  `published` varchar(200) NOT NULL,  
  `file` longblob NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
CREATE TABLE `book_images` (  
  `id` int(11) NOT NULL,  
  `book_id` int(11) NOT NULL,  
  `imagename` varchar(200) NOT NULL,  
  `imagefile` longblob NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <meta name="description" content="E-Library Management System">
```

```
  <meta name="keywords" content="HTML, CSS, JavaScript, PHP, MYSQL">
```

```
  <title>E-Library</title>
```

```
  <link rel="stylesheet" href="src/style.css">
```

```
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-  
awesome/4.7.0/css/font-awesome.min.css">
```

```
  <link rel="icon" href="src/assets/logo/android-chrome-512x512.png">
```

```
  <link rel="stylesheet" href="https://unpkg.com/aos@next/dist/aos.css" />
```

```

</head><body>
  <div id="loader"></div>
  <a href="#">
    <i class="fa fa-angle-double-up fa-3x" id="arrow"></i>
  </a>
<!-- Navigation Header for Mobiles & Tablets -->
<div id="header-nav">
  <div class="header-nav-cover">
    <h1>E-Library</h1>
    <div class="lists">
      <ul class="m-nav">
        <li><a href="src/books.php">Book</a></li>
        <li><a href="src/showcase.php">Showcase</a></li>
        <li><a href="#">Community</a></li>
        <li><a href="src/curriculum.php">Curriculum</a></li>
        <li><a href="src/study.php">Study</a></li>
        <li><a href="src/userlogin.php">Login</a></li>
      </ul>
    </div>
  </div>
</div>
<!-- Header -->
<header>
  <div id="header">
    <div class="logo">
      <h1>E-Library</h1>
    </div>
    <div class="lists">
      <ul class="midscreen-display">
        <li><a href="src/books.php">Book</a></li>
        <li><a href="src/showcase.php">Showcase</a></li>
        <li><a href="#">Community</a></li>
        <li><a href="src/curriculum.php">Curriculum</a></li>

```

```

        <li><a href="src/study.php">Study</a></li>
    </ul>
</div>
<?php
    if(isset($_SESSION['login_user'])) { ?>
        <a href="/src/sessionuser_end.php">
            <?php
                echo "<h2 style='font-size:20px;'>" . $_SESSION['login_user'] . "</h2>";
            ?>
        </a>
        <?php
    }
    else{
        ?>
        <div class="database">
            <button class="btnlg">Login</button>
            <button class="hamburger">≡</button>
        </div>
        <?php
    }
    ?>
</div>
<div class="login_page lg">
    <div class="login_cover">
        <form action="" method="post">
            <div class="top">
                <h1>How would you like to continue?</h1>
                <i class="fa fa-close close"></i>
            </div>
            <div class="mid">
                <div class="user">
                    <input type="email" placeholder="Email Address" spellcheck="false"
autocomplete="off" required name="email">

```

```

        </div>
        <div class="pass">
            <input type="password" placeholder="Password" spellcheck="false"
autocomplete="off" required name="password">
        </div></div>
<div class="authorization">
    <div class="a1">
        <input type="checkbox" checked>
        <span>Keep me signed in?</span>
    </div>
    <div class="a2">
        <h3>Forgot Password?</h3>
    </div>
</div>
<div class="login_btn">
    <button name="login">Log in</button>
    <h3>Don't have an account? <span class="login_side"><a href="#"
style="color : #1354A9;">Sign Up</a></span></h3>
</div>
<div class="guest">
    <a href="src/admin.php"><h2>Continue as Admin</h2></a>
</div>
<div class="login_text">
    <h2>New User?</h2><br>
    <h3>By logging in to your account on an e-library, you can gain access
to a wealth of knowledge and information that can help you with your studies,
research, or personal interests.</h3>
</div>
</form>
</div>
</div>

<?php

```

```

if(isset($_POST['login'])){
    $content_connect = mysqli_query($db,"SELECT * from `users` WHERE
email='$_POST[email]' && password='$_POST[password]';");
    $count = 0;
    $count = mysqli_num_rows($content_connect);
    if($count == 1){
        $ftch = mysqli_fetch_assoc($content_connect);
        // print_r($ftch);
        if($ftch['status'] == 0){
            ?>
            <div id='login-error'>
                <h2>Not Approved Yet! Please try again later.</h2>
            </div>
            <?php
            // header("Location: ./study.php");
        }
    }
    else{
        $_SESSION['login_user'] = $ftch['username'];
        header("Location: ./src/books.php");
    }
}

else{
    ?>
    <div id="login-error">
        <h2>Username or Password doesn't match</h2>
    </div>
    <?php
    // header("Location: ./index.php");
}
}

?>
<div class="signup_page ss">

```

```

<div class="signup_cover">
  <div class="top">
    <h1>Create an account</h1>
    <i class="fa fa-close close_register"></i>
  </div>
  <form action="#" method="post">
    <div class="mid">
      <div class="user">
        <input type="text" placeholder="Username" spellcheck="false"
autocomplete="off" required name="username">
      </div>
      <div class="phonenumber">
        <input type="number" placeholder="Phone Number"
spellcheck="false" autocomplete="off" required name="phonenumber">
      </div>
      <div class="email">
        <input type="email" placeholder="Email Address" spellcheck="false"
autocomplete="off" required name="email">
      </div>
      <div class="dob">
        <input type="date" spellcheck="false" autocomplete="off" required
name="dob">
      </div>
      <div class="pass">
        <input type="password" placeholder="Password" spellcheck="false"
autocomplete="off" required name="password">
      </div>
      <input type="text" name="datetime" value="<?php echo date('M d, Y g:i
a');?>" style="display:none">
    </div>
    <div class="signup_btn">
      <button name="register" style="cursor:pointer;">Register</button>
      <h2 class="cypertext"></h2>
    </div>
  </form>
</div>

```

```

        <h4 style="color:red;cursor:pointer;" class="generate">Generate a
secured password</h4>
        <h3>Already have an account? <span class="back_side"><a href="#"
style="color : #1354A9;">Log in</a></span></h3>
    </div>
</form>
    <div class="guest">
        <a href="src/admin.php"><h2>Continue as Admin</h2></a>
    </div>
</div>
</div>
</header>
<?php
    $statusnum = 0;
    if(isset($_POST['register'])){
        $query="INSERT INTO `users` VALUES
(',$_POST[username]','$_POST[phonenummer]','$_POST[email]','$_POST[dob]','$_POS
T[password]',$statusnum,'$_POST[datetime]')";
        // print_r($query);
        $checker = mysqli_query($db, $query);
        if(!$checker){
            ?>
            <div id="login-error">
                <h2>Oops! Something went wrong. Please try again later.</h2>
            </div>
            <?php
        }
        else{
            ?>
            <div id="login-success">
                <h2>Your account registration has been successful!</h2>
            </div>
            <?php

```

```

    }
}
?>
<div id="newsletter">
    <div class="subscribe">
        <form method="post" action="#">
            <h3>Newsletter</h3>
            <input type="email" id="email" name="email" placeholder="Email" required
autocomplete="off" spellcheck="false">
            <button name="subscribe">SUBSCRIBE</button>
        </form>
    </div>
</div>
<?php
    if(isset($_POST["subscribe"])){
        mysqli_query($db,"INSERT INTO `newsletter` VALUES (';".$_POST[email].");");
    }
?>

<footer>
    <div id="footer">
        <div class="footer-about">
            <div class="footer-aboutus">
                <h2>About Us</h2>
                <ul>
                    <li>
                        Developers
                    </li>
                    <li>
                        Community
                    </li>
                    <li>
                        Help and Support

```


Blog

</div>

<div class="footer-books">

<h2>Books</h2>

Energize

FindingYourPassion

HistoricalFiction

Motivation

Parenting

Religion and Spirituality

</div>

<div class="footer-bookss">

</div>

<div class="footer-socialmedia">

<h2>Stay Connected</h2>

<i class="fa fa-facebook"></i>

<i class="fa fa-linkedin"></i>

<i class="fa fa-twitter"></i>

```

        </li>
        <li>
            <i class="fa fa-youtube-play"></i>
        </li>
        <li>
            <i class="fa fa-github"></i>
        </li>
    </ul>
</div>
</div>
<div id="copyright">
    <h1>Find an issue with this page? <a
href="https://github.com/kushalshakya/majorProject" target="_blank">Fix it on
Github</a></h1>
    <h3>Need help? Email <span>librariansupervisor@gmail.com</span></h3>
    <div class="policies">
        <ul>
            <li>Privacy</li>
            <li class="side">Use Of Cookies</li>
            <li class="side">Website Details</li>
            <li class="side">Accessibility</li>
            <li class="side">Copyright</li>
            <li class="side side-close">Terms Of Use</li>
        </ul>
    </div>
    <div class="copyright-info">
        <h2>&copy; 2022 E-Library. All rights reserved.</h2>
    </div>
</div>
</footer>
</body>
// Header
const header = document.querySelector("#header")

```

```
window.onscroll = function(){  
  if(window.scrollY >= 400){  
    header.style.height = 45 + "px"  
  }  
  else{  
    header.style.height = 50 + "px"  
  }  
}
```

// Login & Signup

```
const btn = document.querySelector('.btnlg')  
const login = document.querySelector('.lg')  
const close = document.querySelector('.close')
```

```
const login_side = document.querySelector('.login_side')  
const signup_side = document.querySelector('.ss')  
const back_side = document.querySelector('.back_side')
```

```
function clickable(){  
  login.classList.toggle('active')  
}  
function registration(){  
  signup_side.classList.toggle('active')  
  login.classList.toggle('active')  
}
```

```
btn.addEventListener("click", clickable)  
close.addEventListener('click', clickable)
```

```
login_side.addEventListener('click',registration)  
back_side.addEventListener('click',registration)
```

```
const close_register = document.querySelector('.close_register')
```

```

function closeone(){
  signup_side.classList.toggle('active')
}
close_register.addEventListener('click', closeone)

const generateSecurePass = document.querySelector('.generate')
const pass = document.querySelector('.cypertext')
let store = ""
generateSecurePass.addEventListener('click',()=>{
  pass.innerText = generate()
})

function generate(){
  let store = ""
  const num = "0z3X1N8c2@67R#9aBdE5HnfGhi4j"
  for(let a=0;a<8;a++){
    const random = Math.floor(Math.random()*num.length)
    store += num.substring(random,random + 1)
  }
  return store
}

const headerNavEl = document.querySelector('#header-nav')
const hamBurgerMidScreen = document.querySelector('.hamburger')

hamBurgerMidScreen.addEventListener('click',()=>{
  headerNavEl.classList.toggle('active')
})

const loginError = document.querySelector('#login-error')
const loginUserError = document.querySelector('#error-user')
const loginSuccess = document.querySelector('#login-success')
loginSuccess.style.display = "block";
// setTimeout(()=>{

```

```
// loginSuccess.style.display = "none";  
// },4000);
```

```
setInterval(() => {  
    loginSuccess.style.display = "none";  
  
}, 4000);
```

```
loginError.style.display = "block";  
setTimeout(()=>{  
    loginError.style.display = "none";  
},4000);  
const html = document.documentElement;  
const body = document.body;
```

```
const hamburgerBtn = document.querySelector('.hambtn')  
const dashboard = document.querySelector('#dashboard')  
const pageheader = document.querySelector('.page-header')  
const contentheader = document.querySelector('#content-header')
```

```
hamburgerBtn.addEventListener('click', () => {  
    dashboard.classList.toggle('active')  
    pageheader.classList.toggle('active')  
    contentheader.classList.toggle('active')  
    updateLocalStorageNav()  
})
```

```
let dynamicNumEl = document.querySelectorAll('.dynamicnum')  
let interval = 3000;
```

```
dynamicNumEl.forEach((dynamicNum) => {  
    let startValue = 0;
```

```
let endValue = parseInt(dynamicNum.getAttribute("data-num"))
let duration = Math.floor(interval / endValue)
let counter = setInterval(function(){
    startValue += 1
    dynamicNum.textContent = startValue
    if(startValue == endValue){
        clearInterval(counter)
    }
},duration)
});
```

```
let side = JSON.parse(localStorage.getItem('side'))
if(side == null){
    side = 1
}
function updateLocalStorageNav(){
    localStorage.setItem("side", JSON.stringify(side))
    side++
}
```

ErrorDocument 404 /page.php

RewriteEngine On

RewriteCond %{REQUEST_FILENAME} !-d

RewriteCond %{REQUEST_FILENAME}\.php -f

RewriteRule ^([^\.]*)\$ \$1.php [NC,L]

Project Requirements

To complete the project, we required the following hardware components:

1. Laptop
2. Pendrive
3. Printer

The following software components were also required for the project:

1. Office 365
2. Visual Studio Code
3. Photoshop
4. Web Browser (i.e: Chrome, Microsoft Edge)
5. Database Management System

Project Completion Time

	Week 1	Week 2	Week 3	Week 4
Planning				
Research				
Analyzing				
Coding				
Report				

The project was completed within a timeframe of approximately one month. This included the time required for planning, research, analyzing, coding, and report preparation of the website.

Result & Evaluation

After several months of hard work and dedication, we have successfully developed the project, achieving the objectives we set out to accomplish. Our team focused on delivering a functional and user-friendly website, and we believe that the website is now running as intended.

We created the website using basic programming languages such as HTML, CSS, JavaScript, PHP, and MySQL. These languages are easy to learn and implement, making them ideal for developing a website that is both functional and user-friendly. The choice to use these languages was based on their versatility and ability to create dynamic web pages and interactive features.

In conclusion, the successful completion of the project was the result of the hard work and dedication of our team. We have delivered a functional and user-friendly website that meets the objectives of the project.

Future Works

This project has been a valuable learning experience for our team, providing us with new knowledge and skills in web development. We believe that this experience will be beneficial in developing future projects and expanding our capabilities.

While the website we have developed meets the desired objectives, we recognize that there is always room for improvement. As such, we plan to continue working on this website by adding more functionalities and enhancing its overall performance.

Conclusion

In conclusion, working on this project has been an invaluable experience for our team, providing us with new knowledge and skills in web development. We are confident that this experience will be useful in our future project works. With the help of this website, users can access and download books without any restrictions or limitations.

The website is user-friendly, making it easy for anyone to use. Overall, we believe that our website will be a valuable resource for users who are looking to access and read books online. We are proud of the work that we have accomplished, and we hope that the website will continue to be useful to its users.