

**NATIONAL UNIVERSITY OF MODERN LANGUAGES,
ISLAMABAD**



Web Engineering - Lab

Lab Exam

Submitted By

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SP21020

Submitted To

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Date: 18/12/2023

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Library Management System</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 20px;
      background-color: #f5f5f5;
    }

    h2 {
      color: #333;
    }

    form {
      margin-top: 20px;
      background-color: #fff;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 0 5px rgba(0, 0, 0, 0.1);
    }

    label {
      display: block;
      margin-bottom: 8px;
      color: #333;
    }

    input, button {
      width: 100%;
      padding: 8px;
      margin-bottom: 15px;
      border: 1px solid #ccc;
      border-radius: 4px;
      box-sizing: border-box;
    }

    button {
      background-color: #000000;
      color: white;
      cursor: pointer;
    }

    button:hover {
      background-color: #45a049;
    }
  </style>

```

```

    }

    </style>
</head>
<body>

<?php
// Database connection
$host = "localhost";
$username = "root";
$password = "";
$database = "library";

$conn = new mysqli($host, $username, $password, $database);

if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}

// Create Operation - Add new book
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $title = $_POST["title"];
    $author = $_POST["author"];
    $publication_year = $_POST["publication_year"];
    $quantity_available = $_POST["quantity_available"];

    // Check if the book already exists
    $check_sql = "SELECT * FROM books WHERE title = '$title' AND author = '$author'";
    $check_result = $conn->query($check_sql);

    if ($check_result->num_rows > 0) {
        echo "<p>Book already exists in the database.</p>";
    }
    else {
        // Book does not exist, insert it
        $insert_sql = "INSERT INTO books (title, author, publication_year,
quantity_available)
VALUES ('$title', '$author', '$publication_year',
'$quantity_available')";

        if ($conn->query($insert_sql) === TRUE) {
            echo "<p>New book added successfully!</p>";
        } else {
            echo "Error: " . $insert_sql . "<br>" . $conn->error;
        }
    }
}
}

```

```

// Read Operation - Display books as text
echo "<h2>Book List</h2>";

// Search functionality
if (isset($_GET['search'])) {
    $search = $_GET['search'];
    $search_sql = "SELECT * FROM books WHERE title LIKE '%$search%' OR author
LIKE '%$search%'";
    $result = $conn->query($search_sql);
} else {
    $result = $conn->query("SELECT DISTINCT * FROM books");
}

if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        echo "<p><strong>Title:</strong> {$row['title']}<br>
        <strong>Author:</strong> {$row['author']}<br>
        <strong>Publication Year:</strong>
{$row['publication_year']}<br>
        <strong>Quantity Available:</strong>
{$row['quantity_available']}</p>";
    }
} else {
    echo "<p>No books found.</p>";
}
$conn->close();
?>

<!-- HTML Form for Create Operation -->
<form method="post" action="">
    <h2>Add New Book</h2>
    <label for="title">Title:</label>
    <input type="text" name="title" required>

    <label for="author">Author:</label>
    <input type="text" name="author" required>

    <label for="publication_year">Publication Year:</label>
    <input type="number" name="publication_year">

    <label for="quantity_available">Quantity Available:</label>
    <input type="number" name="quantity_available" required>

    <button type="submit">Add Book</button>
</form>

<!-- HTML Form for Search Operation -->

```

```

<form method="get" action="">
  <h2>Search Books</h2>
  <label for="search">Search by Title or Author:</label>
  <input type="text" name="search">
  <button type="submit">Search</button>
</form>
</body>
</html>

```

Add New Book

Title:

Author:

Publication Year:

Quantity Available:

Add Book

Search Books

Search by Title or Author:

Search

Book List

Title: Web

Author: Umer

Publication Year: 2019

Quantity Available: 5

Title: New Web Book

Author: umer

Publication Year: 2021

Quantity Available: 2

Databaase Table

[SELECT](#) * FROM `books`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐

Show all

Number of rows:

25










Filter rows:

Search this table

Sort by key:

None

Extra options

				id	title	author	publication_year	quantity_available
<input type="checkbox"/>				14	Web	Umer	2019	5
<input type="checkbox"/>				15	web programming	Willey	2022	4
<input type="checkbox"/>				16	New Web Book	umer	2021	2