

Alyssa Milinkovich
CIS 2987 – Capstone Project
Part 2

Direct Link to Capstone Project:

[MiniLibrary](#)

https://alyssamilinkovich.webhostingforstudents.com/AlyssasMiniLibrary/AMilinkovich_Capstone/

Video Walkthrough:

[Capstone Project - MediaSpace > Minnesota State](#)

https://mediaspace.minnstate.edu/media/Capstone%20Project/1_4nl1gfrt

Summary document: Brief recap of the project:

My Capstone Project was to create an e-library called, “Alyssa’s Mini Library”. It was to create an online library where users can get books, foster a love of reading, and join us for online/in person events. This included: membership signups, my account page, library catalog, single book pages, weekly activity and a contact us page.

Original project timeline - tasks, dates and hours:

The timeline for completion of the project is as follows:

- **Week #1:** Setup server, hosting, and database. – 8 hours
- **Week #2:** Setup Main page, Membership Signup page, and Contact Page. 10 hours
- **Week #3:** Setup Book Catalog, Individual Book Pages, and Checkout Page. 10 hours
- **Week #4:** Setup Activity Page and features of databases. -8 hours
- **Week #5:** Create data visualization and library analytics. -5 hours
- **Week #6:** User Testing (family and friends) and finalizing documentation. – 5 hours

Total Estimated Hours: 46

List of all tasks (steps) completed as part of your capstone

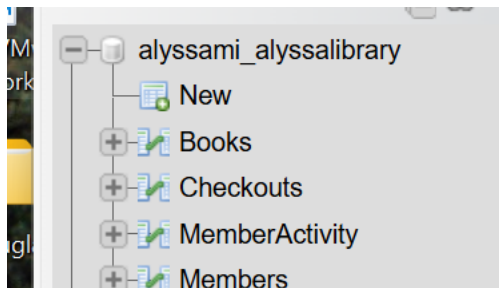
Week 10:

3/19 4.25 Hours, Setup Database:

- Setup new SQL database in webhosting
- Created four tables: Books, Checkouts, MemberActivity, and Members
- Added 25 books to my database including title, author, summary.
- Took pictures of all the book covers, edited them in photoshop, and added them to a folder on the server.

3/20 3.5 Hours, Setup server:

- Created all folders, files, ect
- Created header, footer, and menu areas
- Selected color palette for entire project
- Setup template folder: menu, header, and footer
- Added main setups to all php pages(attached header, footer, menu stuff)




Part 2

Browse Structure SQL Search Insert Export Import Operations Triggers									
		book_id	title	author	page_count	summary	availability		
<input type="checkbox"/>				1	Throne of Glass	Sarah J. Maas	406	The first book in the epic fantasy series followin...	Available
<input type="checkbox"/>				2	Crown of Midnight	Sarah J. Maas	448	Celaena takes on her role as the King's Champion w...	Available
<input type="checkbox"/>				3	Heir of Fire	Sarah J. Maas	431	Celaena travels to a new land to unlock her true p...	Available
<input type="checkbox"/>				4	Queen of Shadows	Sarah J. Maas	648	Aelin Galathynius returns to reclaim her kingdom a...	Available
<input type="checkbox"/>				5	Empire of Storms	Sarah J. Maas	693	Aelin's journey takes her to war as she fights for...	Available
<input type="checkbox"/>				6	Tower of Dawn	Sarah J. Maas	660	Chao Westfall embarks on a journey for healing an...	Available
<input type="checkbox"/>				7	Kingdom of Ash	Sarah J. Maas	984	The epic conclusion to the "Throne of Glass" serie...	Available
<input type="checkbox"/>				8	The Assassin's Blade	Sarah J. Maas	448	A collection of prequel novellas following Celaena...	Available
<input type="checkbox"/>				9	The Crash	Freda McFadden	384	A psychological thriller with unexpected twists an...	Available
<input type="checkbox"/>				10	The Deep	Nick Cutter	394	A deep-sea horror novel that explores fear and mad...	Available
<input type="checkbox"/>				11	The Only One Left	Riley Sager	382	A gothic thriller about a woman's haunting past.	Available
<input type="checkbox"/>				12	The Troop	Nick Cutter	358	A horror novel about a group of scouts encounterin...	Available
<input type="checkbox"/>				13	We Used to Live Here	Marcus Kliever	320	A chilling psychological thriller.	Available
<input type="checkbox"/>				14	Head Like a Hole	Andrew Van Wey	382	A horror novel with a dark mystery.	Available
<input type="checkbox"/>				15	Heart-Shaped Box	Joe Hill	384	A ghost story following a rockstar haunted by his ...	Available
<input type="checkbox"/>				16	Monday's Not Coming	Tiffany D. Jackson	448	A gripping YA thriller about a missing girl.	Available
<input type="checkbox"/>				17	Lock Every Door	Riley Sager	384	A thriller about a mysterious apartment building w...	Available
<input type="checkbox"/>				18	The Silent Patient	Alex Michaelides	325	A psychological thriller about a woman who stops s...	Available
<input type="checkbox"/>				19	The Night She Disappeared	Lisa Jewell	401	A suspenseful mystery about a missing woman.	Available
<input type="checkbox"/>				20	The Island	Natalie Preston	336	A survival thriller set on a remote island.	Available
<input type="checkbox"/>				21	All the Dangerous Things	Stacy Willingham	326	A psychological thriller about a mother searching ...	Available
<input type="checkbox"/>				22	Dark Matter	Blake Crouch	342	A mind-bending sci-fi thriller.	Available
<input type="checkbox"/>				23	Dracula	Bram Stoker	497	The classic gothic horror novel about Count Dracul...	Available
<input type="checkbox"/>				24	The Family Upstairs	Lisa Jewell	340	A domestic thriller about dark family secrets.	Available
<input type="checkbox"/>				25	In a Dark, Dark Wood	Ruth Ware	308	A psychological thriller set in an eerie forest re...	Available

← ↻ 🔒 https://alyssamilinkovich.webhostingforstudents.com/AlyssasMiniLibrary/AMilinkovich_Capstone/index.php ☆ ⚙️ ⚙️ ⋮ 🌐

🔴 Lenovo Support 🔴 Lenovo 📘 D2L 🌐 AT&T Mobile Locat... 🌐 Watch Movies Onlin... 🌐 Watch Latest Episod... 🌐 Web Design & Deve... 📘 Ebooks - Cengage e... > 📁 Other favorites

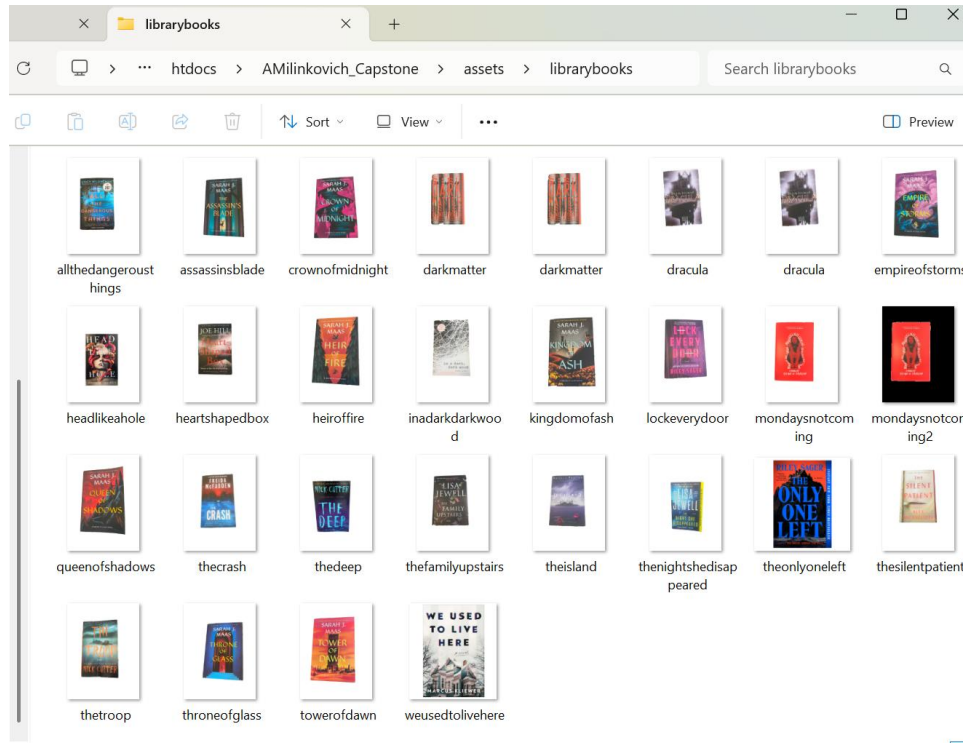


Alyssa's Mini Library

[Home](#) [Weekly Activity](#) [Book Catalog](#) [Sign Up](#) [Checkout](#) [Contact](#)

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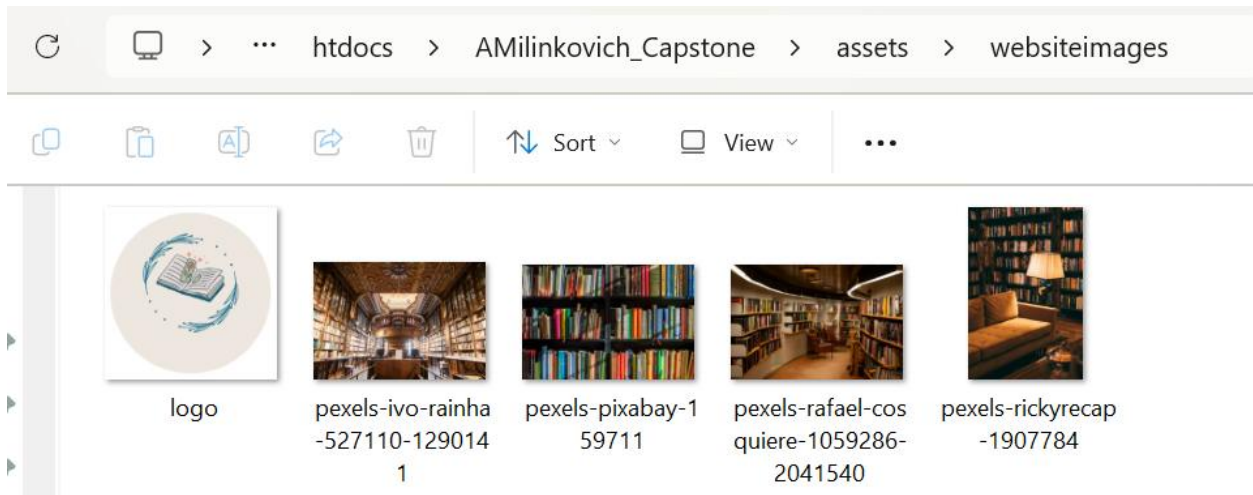
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Week 11:

3/23 5 hours, Set up Main page and start Membership Signup page:


- Created CSS, HTML, php for each page
- Found images to use throughout my website
- Thought of layouts for each pages
- Started debugging

3/29 5 Hours Continue Membership Sign up Page, create Contact Us form:

- Created CSS, HTML, php for each page
- Finished debugging and did a final test
- Created Contact Us form



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Contact.php

 **Alyssa's Mini Library** [Login](#)

[Home](#) [Weekly Activity](#) [Book Catalog](#) [Sign Up](#) [Checkout](#) [Contact](#)

Contact Us

Contact Us

Full Name:

Email:

Phone Number:

Message:

[Send Message](#)

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Part 2

```
1 <?php
2 session_start();
3
4 $title = "Contact";
5 $page = "Contact";
6
7 function showTemplate($title, $page) {
8     require('template/header.html');
9     require('template/menu.html');
10 }
11
12 showTemplate($title, $page);
13
14 if ($_SERVER["REQUEST_METHOD"] == "POST") {
15     if (!empty($_POST['name']) && !empty($_POST['email']) && !empty($_POST['phone']) && !empty($_POST['message'])) {
16         $_SESSION['message'] = "Form successfully sent!";
17     } else {
18         $_SESSION['message'] = "Please fill out all fields!";
19     }
20 }
21 ?>
22
23 <html>
24 <head>
25 <title>Contact Us</title>
26 <meta charset="utf-8">
27 <link rel="stylesheet" href="css/mystyles.css">
28 </head>
29 <body>
30 <?php
31 if (isset($_SESSION['message'])) {
32     echo "<p class='message'>" . $_SESSION['message'] . "</p>";
33     unset($_SESSION['message']);
34 }
35 ?>
36
37 <br>
38 <br>
39 <div class="container">
40 <h2>Contact Us</h2>
41 <form action="contact.php" method="POST">
42 <div class="form-container">
43 <h2>Contact Us</h2>
44
45 <label for="name">Full Name:</label>
46 <input type="text" id="name" name="name" required>
47
48 <label for="email">Email:</label>
49 <input type="email" id="email" name="email" required>
50
51 <label for="phone">Phone Number:</label>
52 <input type="tel" id="phone" name="phone" required>
53
54 <label for="message">Message:</label>
55 <textarea id="message" name="message" required></textarea>
56
57 <button type="submit">Send Message</button>
58 </div>
59 </form>
60 </div>
61
62 <?php
63 require('template/footer.html');
64 ?>
65 </body>
66 </html>
67
```

Welcome to Alyssa's Mini Library!

Discover a world of e-books, engage with our community, and explore the joy of reading.



Explore Our Library

[Browse Our E-Books](#)

[Become a Member](#)

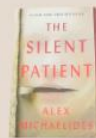
[Weekly Activities](#)

[Contact Us](#)

Featured Books




[Throne of Glass by Sarah J. Maas](#)



[The Silent Patient by Alex Michaelides](#)

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```
index.php x signup.php x weeklyactivity.php x contact.php x footer.html x checkout.php x mysqli_connect.php x footer.html x
1 <?php
2 session_start();
3
4 $title = "MiniLibrary";
5 $page = "MiniLibrary";
6
7 function showTemplate($title, $page) {
8     require('template/header.html');
9     require('template/menu.html');
10 }
11
12 showTemplate($title, $page);
13 >
14 <html>
15 <head>
16     <title>Welcome to Alyssa's Mini Library!</title>
17     <meta charset="utf-8">
18     <link rel="stylesheet" href="css/mystyles.css">
19 </head>
20
21 <body>
22
23     <div class="container">
24
25         <section class="welcome">
26             <h1>Welcome to Alyssa's Mini Library!</h1>
27             <p>Discover a world of e-books, engage with our community, and explore the joy of reading.</p>
28             
29         </section>
30
31         <section class="quick-links">
32             <h2>Explore Our Library</h2>
33             <ul>
34                 <li><a href="catelog.php">Browse Our E-Books</a></li>
35                 <li><a href="signup.php">Become a Member</a></li>
36                 <li><a href="weeklyactivity.php">Weekly Activities</a></li>
37                 <li><a href="contact.php">Contact Us</a></li>
38             </ul>
39         </section>
40
41         <section class="featured-books">
42             <h2>Featured Books</h2>
43             <div class="book-list">
44                 <div class="book">
45                     <a href="book.php?id=1">
46                         
47                         <p><strong>Throne of Glass</strong> by Sarah J. Maas</p>
48                     </a>
49                 </div>
50                 <div class="book">
51                     <a href="book.php?id=18">
52                         
53                         <p><strong>The Silent Patient</strong> by Alex Michaelides</p>
54                     </a>
55                 </div>
56             </div>
57         </section>
58     </div>
59
60 <?php
61 require('template/footer.html');
62 >
63
64 </body>
65 </html>
66
```

**Alyssa's Mini Library** [Login](#)

[Home](#) [Weekly Activity](#) [Book Catalog](#) [Sign Up](#) [Checkout](#) [Contact](#)

Become a Member

Full Name:

Phone Number:

Email:

Password:

Confirm Password:

[Sign Up](#)

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```
1 <?php
2 session_start();
3 require('../../mysql_connect.php');
4
5 if ($_SERVER["REQUEST_METHOD"] == "POST") {
6     $name = trim($_POST['name']);
7     $phone = trim($_POST['phone']);
8     $email = trim($_POST['email']);
9     $password = password_hash($_POST['password'], PASSWORD_DEFAULT);
10
11     if (!empty($name) && !empty($phone) && !empty($email) && !empty($_POST['password'])) {
12
13         $sql = "INSERT INTO Members (name, phone, email, password, account_status)
14             VALUES (?, ?, ?, ?, 'Active')";
15         $stmt = mysqli_prepare($dbc, $sql);
16
17         if ($stmt) {
18             mysqli_stmt_bind_param($stmt, "ssss", $name, $phone, $email, $password);
19             if (mysqli_stmt_execute($stmt)) {
20                 $_SESSION['message'] = "Signup successful!";
21             } else {
22                 $_SESSION['message'] = "Error: " . mysqli_error($dbc);
23             }
24             mysqli_stmt_close($stmt);
25         } else {
26             $_SESSION['message'] = "Error preparing statement: " . mysqli_error($dbc);
27         }
28     } else {
29         $_SESSION['message'] = "All fields are required!";
30     }
31 }
32
33 <?>
34
35 <html>
36 <head>
37     <title>Signup</title>
38     <meta charset="utf-8">
39     <link rel="stylesheet" href="css/mystyles.css">
40     <script src="js/functions.js" defer></script>
41 </head>
42
43 <body>
44     <?php
45     $title = "Signup";
46     $page = "Signup";
47
48     if (isset($_SESSION['message'])) {
49         echo "<p class='message'>" . $_SESSION['message'] . "</p>";
50         unset($_SESSION['message']);
51     }
52
53     function showTemplate($title, $page) {
54         require('template/header.html');
55         require('template/menu.html');
56     }
57
58     showTemplate($title, $page);
59
60     <?>
61
62     <div class="form-container">
63         <h2>Become a Member</h2>
64         <form action="signup.php" method="POST" id="signup-form">
65             <label for="name">Full Name:</label>
66             <input type="text" id="name" name="name" required>
67
68             <label for="phone">Phone Number:</label>
69             <input type="tel" id="phone" name="phone" required>
70
71             <label for="email">Email:</label>
72             <input type="email" id="email" name="email" required>
73
74             <label for="password">Password:</label>
75             <input type="password" id="password" name="password" required>
76
77             <label for="confirm-password">Confirm Password:</label>
78             <input type="password" id="confirm-password" name="confirm-password" required>
79
80             <button type="submit">Sign Up</button>
81         </form>
82     </div>
83
84     <?php require('template/footer.html'); <?>
85 </body>
86 </html>
```

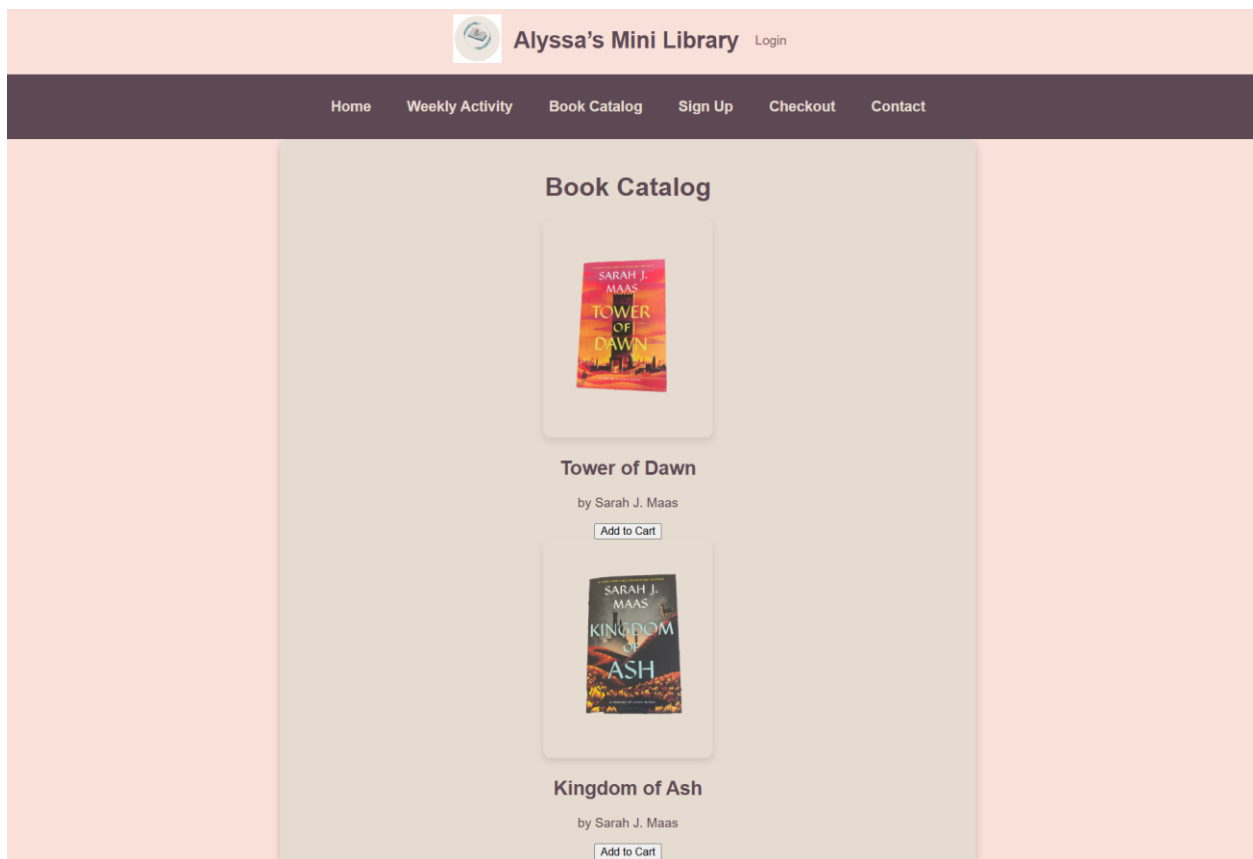
4/3 5.5 Hours:

- **Set up Book catalog page**
 - HTML & CSS
 - PHP – including pulling items from the database and the images
- **Set up User Cart**
 - HTML & CSS
 - PHP
 - Started Debugging

4/5 5 Hours:

- Setup login page
- Setup logout page
- Set up my account page
- Continued debugging


Book Catalog Page:



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```
1 <?php
2 session_start();
3 require('../../../../mysql_connect.php');
4
5 $title = "BookCatalog";
6 $page = "BookCatalog";
7
8 function showTemplate($title, $page) {
9     require('template/header.html');
10    require('template/menu.html');
11 }
12
13 $books_per_page = 5;
14 $page_number = isset($_GET['page']) ? (int)$_GET['page'] : 1;
15 $offset = ($page_number - 1) * $books_per_page;
16
17 if ($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['add_to_cart'], $_POST['book_id'])) {
18     $book_id = $_POST['book_id'];
19
20     if (!isset($_SESSION['cart'])) {
21         $_SESSION['cart'] = [];
22     }
23
24     $_SESSION['cart'][] = $book_id;
25     $_SESSION['added_message'] = "Book added to cart!";
26 }
27
28 showTemplate($title, $page);
29
30 if (!$dbc) {
31     die("Database connection failed: " . mysqli_connect_error());
32 }
33 $query = "SELECT * FROM Books LIMIT $offset, $books_per_page";
34 $result = $dbc->query($query);
35 }>
36
37 <!DOCTYPE html>
38 <html>
39 <head>
40 <title>Book Catalog</title>
41 <meta charset="utf-8">
42 <link rel="stylesheet" href="css/mystyles.css">
43 </head>
44 <body>
45 <div class="container">
46 <h1>Book Catalog</h1>
47
48 <?php if (isset($_SESSION['added_message'])): ?>
49 <p class="success-message"><?php echo $_SESSION['added_message']; ?></p>
50 <?php unset($_SESSION['added_message']); ?>
51 <?php endif; ?>
52
53 <div class="book-grid">
54 <?php while ($book = $result->fetch_assoc()): ?>
55 <div class="book-item">
56 <a href="book.php?id=<?php echo $book['book_id']; ?>">
57 " class="book">
58 </a>
59 <h2><?php echo htmlspecialchars($book['title']); ?></h2>
60 <p>by <?php echo htmlspecialchars($book['author']); ?></p>
61
62 <form method="POST" action="catalog.php?page=<?php echo $page_number; ?>">
63 <input type="hidden" name="book_id" value="<?php echo $book['book_id']; ?>">
64 <input type="hidden" name="add_to_cart" value="1">
65 <button type="submit">Add to Cart</button>
66 </form>
67 </div>
68 <?php endwhile; ?>
69 </div>
70
71 <div class="pagination">
72 <?php
73 $count_query = "SELECT COUNT(*) AS total FROM Books";
74 $count_result = $dbc->query($count_query);
75 $total_books = $count_result->fetch_assoc()['total'];
76 $total_pages = (int)($total_books / $books_per_page);
77 if ($total_books % $books_per_page != 0) {
78     $total_pages++;
79 }
80
81 for ($i = 1; $i <= $total_pages; $i++) {
82     $active = ($i == $page_number) ? "style='font-weight:bold;'" : "";
83     echo "<a href='catalog.php?page=$i' class='page-link' $active>$i</a> ";
84 }
85 </div>
86 </div>
87
88 <?php
89 require('template/footer.html');
90 $dbc->close();
91 }>
92
93 </body>
94 </html>
95
96
97
```

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Login Page:

 **Alyssa's Mini Library** [Login](#)

[Home](#) [Weekly Activity](#) [Book Catalog](#) [Sign Up](#) [Checkout](#) [Contact](#)

Login

Email: Password:

Don't have an account? [Sign up here.](#)


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```
1 <?php
2 ob_start();
3 session_start();
4 require('mysqli_connect.php');
5
6 $error = '';
7
8 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
9     $email = mysqli_real_escape_string($dbc, $_POST['email']);
10    $password = mysqli_real_escape_string($dbc, $_POST['password']);
11
12    $query = "SELECT * FROM Members WHERE email = ?";
13    $stmt = $dbc->prepare($query);
14    $stmt->bind_param("s", $email);
15    $stmt->execute();
16    $result = $stmt->get_result();
17
18    if ($result->num_rows > 0) {
19        $user = $result->fetch_assoc();
20
21        if (password_verify($password, $user['password'])) {
22
23            if ($user['account_status'] == 'Active') {
24
25                $_SESSION['email'] = $user['email'];
26
27                header("Location: index.php");
28                exit();
29            } else {
30                $error = "Account is inactive.";
31            }
32        } else {
33            $error = "Incorrect password.";
34        }
35    } else {
36        $error = "No user found with that email.";
37    }
38 }
39
40 $title = "Login Page";
41 $page = "Login Page";
42
43 function showTemplate($title, $page) {
44     require('template/header.html');
45     require('template/menu.html');
46 }
47
48 showTemplate($title, $page);
49 ob_end_flush();
50 ?>
```

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```
50
51
52 <!DOCTYPE html>
53 <html lang="en">
54 <head>
55     <meta charset="UTF-8">
56     <meta name="viewport" content="width=device-width, initial-scale=1.0">
57     <title>Login</title>
58     <link rel="stylesheet" href="css/mystyles.css">
59 </head>
60 <body>
61     <div class="container">
62         <h2>Login</h2>
63
64         <?php if (!empty($error)): ?>
65             <p class="error"><?php echo $error; ?></p>
66         <?php endif; ?>
67
68         <form method="POST" action="login.php">
69             <label for="email">Email:</label>
70             <input type="email" name="email" id="email" required>
71
72             <label for="password">Password:</label>
73             <input type="password" name="password" id="password" required>
74
75             <button type="submit">Login</button>
76         </form>
77
78         <p>Don't have an account? <a href="signup.php">Sign up here</a>.</p>
79     </div>
80 </body>
81 </html>
82
```


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MyAccount Page:

 **Alyssa's Mini Library** [My Account](#) [Logout](#)

[Home](#) [Weekly Activity](#) [Book Catalog](#) [Sign Up](#) [Checkout](#) [Contact](#)

My Account

Name:

Email:

New Password:

Checkout History

No checkout history found.

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```
1 <?php
2 session_start();
3 require('.././../mysqli_connect.php');
4
5 if (!isset($_SESSION['email'])) {
6     header('Location: login.php');
7     exit();
8 }
9
10 $email = $_SESSION['email'];
11 $query = "SELECT * FROM Members WHERE email = ?";
12 $stmt = $dbc->prepare($query);
13 $stmt->bind_param("s", $email);
14 $stmt->execute();
15 $result = $stmt->get_result();
16 $user = $result->fetch_assoc();
17
18 if (isset($_GET['return_early']) && isset($_GET['checkout_id'])) {
19     $checkout_id = $_GET['checkout_id'];
20
21     $delete_query = "DELETE FROM Checkouts WHERE checkout_id = ?";
22     $stmt_delete = $dbc->prepare($delete_query);
23     $stmt_delete->bind_param("i", $checkout_id);
24     $stmt_delete->execute();
25
26     echo "<p>Your book has been returned early.</p>";
27 }
28
29 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
30
31     $name = $_POST['name'];
32     $email = $_POST['email'];
33     $password = $_POST['password'];
34
35     $update_query = "UPDATE Members SET name = ?, email = ?, password = ? WHERE email = ?";
36     $stmt_update = $dbc->prepare($update_query);
37     $hashed_password = password_hash($password, PASSWORD_DEFAULT);
38     $stmt_update->bind_param("ssss", $name, $email, $hashed_password, $user['email']);
39     $stmt_update->execute();
40
41     $_SESSION['email'] = $email;
42
43     echo "Your account has been updated.";
44 }
45
46 $title = "MiniLibrary";
47 $page = "MiniLibrary";
48
49 function showTemplate($title, $page) {
50     require('template/header.html');
51     require('template/menu.html');
52 }
53
54 showTemplate($title, $page);
55
56 ?>
```

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```
57 <?DOCTYPE html>
58 <html lang="en">
59 <head>
60 <meta charset="UTF-8">
61 <meta name="viewport" content="width=device-width, initial-scale=1.0">
62 <title>My Account</title>
63 <link rel="stylesheet" href="css/mystyles.css">
64 </head>
65 <body>
66
67 <div class="container">
68 <h2>My Account</h2>
69 <form class="form-container" action="myaccount.php" method="POST">
70 <label for="name">Name:</label>
71 <input type="text" name="name" id="name" value="{?php echo htmlspecialchars($user['name']); }?>
72
73 <label for="email">Email:</label>
74 <input type="email" name="email" id="email" value="{?php echo htmlspecialchars($user['email']); }?>
75
76 <label for="password">New Password:</label>
77 <input type="password" name="password" id="password" placeholder="Enter new password">
78
79 <button type="submit">Update Account</button>
80 </form>
81
82 <h3>Checkout History</h3>
83 <?php
84 $email = $_SESSION['email'];
85
86 $checkout_query = "
87 SELECT * FROM Checkouts
88 WHERE member_id = (SELECT member_id FROM Members WHERE email = ?)
89 ";
90 $stmt_checkout = $dbc->prepare($checkout_query);
91
92 if (!$stmt_checkout) {
93     die('Query preparation failed: ' . $dbc->error());
94 }
95
96 $stmt_checkout->bind_param("s", $email);
97 $stmt_checkout->execute();
98 $checkout_result = $stmt_checkout->get_result();
99
100 if ($checkout_result->num_rows > 0) {
101     echo "<ul>";
102     while ($checkout = $checkout_result->fetch_assoc()) {
103         echo "<li><a href='bookpopulate.html?book_title=" . urlencode($checkout['title']) . "'>" . $checkout['title'] . "</a> - Checkout Date: " . $checkout['checkout_date'] . " - Return
104         " <a href='myaccount.php?return_early=true&checkout_id=" . $checkout['checkout_id'] . "'>Return Early</a></li>";
105     }
106     echo "</ul>";
107 } else {
108     echo "<p>No checkout history found.</p>";
109 }
110 </?php>
111 </div>
112
113 </body>
114 </html>
115
116 <?php
117 $dbc->close();
118 </?php>
119
120
```

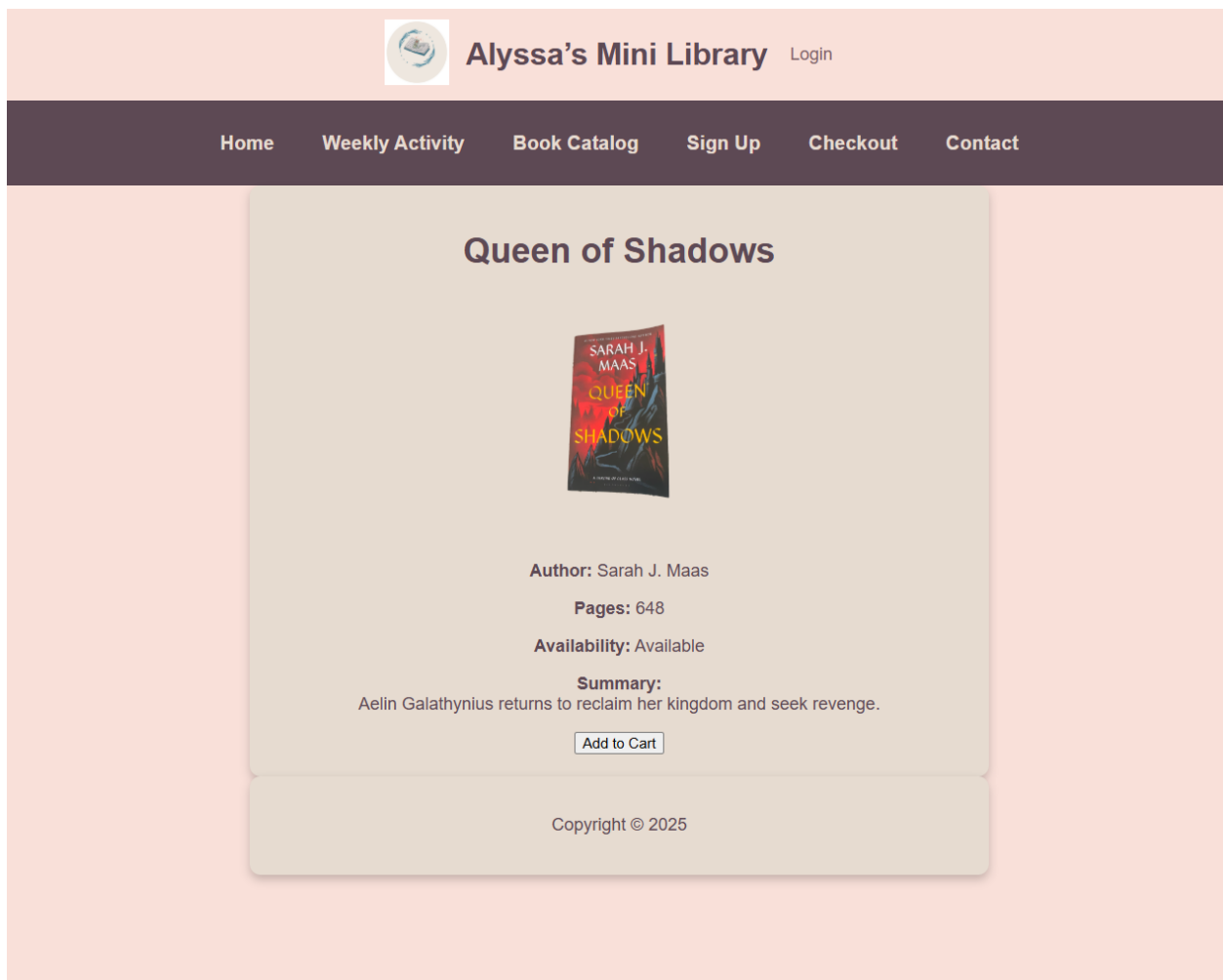
4/10 5 Hours:

- **Created individual book pages**
- **Removed initial individual book pages**
- **Created one main book details page**

4/11 3 hours:

- **Created weekly activity page**
- **Created ebook page**
- **Added a return book early button to myaccount page**
- **Documentation took around 30 minutes**

Individual Book Pages:



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Part 2

```
1 <?php
2 ob_start();
3 session_start();
4 require('.././../mysqli_connect.php');
5
6 $title = "Book Details";
7 $page = "BookDetails";
8
9 function showTemplate($title, $page) {
10     require('template/header.html');
11     require('template/menu.html');
12 }
13
14 if ($_SERVER['REQUEST_METHOD'] === 'POST') {
15     $book_id = $_GET['id'] ?? null;
16
17     if ($book_id && is_numeric($book_id)) {
18         if (!isset($_SESSION['cart'])) {
19             $_SESSION['cart'] = [];
20         }
21
22         if (!in_array($book_id, $_SESSION['cart'])) {
23             $_SESSION['cart'][] = $book_id;
24         }
25
26         $_SESSION['message'] = "Book added to cart!";
27
28         header("Location: book.php?id=$book_id");
29         exit();
30     }
31 }
32
33 showTemplate($title, $page);
34
35 if (!isset($_GET['id']) || !is_numeric($_GET['id'])) {
36     echo "<p>Invalid book ID.</p>";
37     exit();
38 }
39
40 $book_id = $_GET['id'];
41
42 $query = "SELECT * FROM Books WHERE book_id = ?";
43 $stmt = $dbc->prepare($query);
44 $stmt->bind_param("i", $book_id);
45 $stmt->execute();
46 $result = $stmt->get_result();
47
48 if ($result->num_rows === 0) {
49     echo "<p>Book not found.</p>";
50     exit();
51 }
52
53 $book = $result->fetch_assoc();
54 ob_end_flush();
55 ?>
```

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```
56 <<
57 <div class="container">
58 <h1><?php echo htmlspecialchars($book['title']); ?></h1>
59
60 <?php
61 if (isset($_SESSION['message'])) {
62     echo "<p class='message'>" . $_SESSION['message'] . "</p>";
63     unset($_SESSION['message']);
64 }
65 <?>
66 <html>
67 <head>
68 <title>Book Details</title>
69 <meta charset="utf-8">
70 <link rel="stylesheet" href="css/mystyles.css">
71 </head>
72 <div class="book-details">
73 " style="width: 150px; height: 225px;"
74 <p><strong>Author:</strong> <?php echo htmlspecialchars($book['author']); ?></p>
75 <p><strong>Pages:</strong> <?php echo htmlspecialchars($book['page_count']); ?></p>
76 <p><strong>Availability:</strong> <?php echo htmlspecialchars($book['availability']); ?></p>
77 <p><strong>Summary:</strong><br><?php echo nl2br(htmlspecialchars($book['summary'])); ?></p>
78
79 <form action="book.php?id=<?php echo $book_id; ?>" method="post">
80 <button type="submit">Add to Cart</button>
81 </form>
82 </div>
83
84 <?php
85 require('template/footer.html');
86 <?>
87 </body>
88 </html>
```


Ebook Page:

This page intentionally does not include any css. If this were a real ebook, we would want the book only here. Not any headers, footers, or anything like that.

```
1 <DOCTYPE html>
2 <body>
3 <h1>Your book would appear here if this were a real library!</p>
4 </body>
5 </html>
```

Your book would appear here if this were a real library!

Weekly Activity:

 **Alyssa's Mini Library** [Login](#)

[Home](#) [Weekly Activity](#) [Book Catalog](#) [Sign Up](#) [Checkout](#) [Contact](#)

Weekly Library Activity

Join us this week for exciting events and activities at Alyssa's Mini Library!

Monday: Online Book Club
7:00pm - 9:00pm
Join us to discuss "Head Like A Hole" by Andrew Van Wey.

Tuesday: Meet an Author
2:00pm - 5:00pm
Come meet Riley Sager at our in-person meetup.

Friday: Weekend Book Review
6:00pm - 7:30 pm
Join our discussion on the latest bestsellers and upcoming releases.

Saturday: Kids' Storytime
10:00am - 12:00pm
Bring your little ones for book reading and a craft.

We can't wait for you to join us for one or all of our events!

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```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Weekly Library Activity</title>
5 <meta charset="utf-8">
6 <link rel="stylesheet" href="css/mystyles.css">
7 </head>
8
9 <body>
10 <?php
11 $title = "Weekly Activity";
12 $page = "WeeklyActivity";
13
14 function showTemplate($title, $page) {
15     require('template/header.html');
16     require('template/menu.html');
17 }
18
19 showTemplate($title, $page);
20 ?>
21
22 <br>
23 <br>
24 <div class="container">
25 <h1>Weekly Library Activity</h1>
26
27 <p><strong>Join us this week for exciting events and activities at Alyssa's Mini Library!</strong></p>
28
29 <div class="weekly-events">
30 <div class="event">
31 <h3>Monday: Online Book Club</h3>
32 <p>7:00pm - 9:00pm</p>
33 <p>Join us to discuss "Head Like A Hole" by Andrew Van Wey.</p>
34 </div>
35 <div class="event">
36 <h3>Tuesday: Meet an Author</h3>
37 <p>2:00pm - 5:00pm</p>
38 <p>Come meet Riley Sager at our in-person meetup.</p>
39 </div>
40 <div class="event">
41 <h3>Friday: Weekend Book Review</h3>
42 <p>6:00pm - 7:30 pm</p>
43 <p>Join our discussion on the latest bestsellers and upcoming releases.</p>
44 </div>
45 <div class="event">
46 <h3>Saturday: Kids' Storytime</h3>
47 <p>10:00am - 12:00pm</p>
48 <p>Bring your little ones for book reading and a craft.</p>
49 </div>
50 </div>
51
52 <p><strong>We can't wait for you to join us for one or all of our events!</strong></p>
53 </div>
54 </body>
55
56 <?php
57 require('template/footer.html');
58 ?>
59
60 </html>
```


4/16 2 Hours

- Spent time with my dad, in laws, and mom explaining my website and having them test it out
- Sent off via text, social media, and phone calls for friends to try my website

Unable to provide pictures of this. I should have taken photos with them while explaining. Apologizes there.

4/17 3 Hours

- Debugged issues on the website per feedback
 - Page not saying on the same page when adding to cart
 - Home page featured books not linkable
 - When adding to cart in catalog, there is no “added to cart” message which can be confusing
 - Some book summaries were not populating, so I corrected that – **The issue was adding the “ “, I removed that and everything is now populating.**

Debug:

Cart page issues:

```
1 <?php
2 session_start();
3 require('.././../mysqli_connect.php');
4
5 $title = "BookCatalog";
6 $page = "BookCatalog";
7
8 function showTemplate($title, $page) {
9     require('template/header.html');
10    require('template/menu.html');
11 }
12
13 $books_per_page = 5;
14 $page_number = isset($_GET['page']) ? (int)$_GET['page'] : 1;
15 $offset = ($page_number - 1) * $books_per_page;
16
17 if ($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['add_to_cart'], $_POST['book_id'])) {
18     $book_id = $_POST['book_id'];
19
20     if (!isset($_SESSION['cart'])) {
21         $_SESSION['cart'] = [];
22     }
23
24     $_SESSION['cart'][] = $book_id;
25     $_SESSION['added_message'] = "Book added to cart!";
26 }
27 showTemplate($title, $page);
28
29 if (!$dbc) {
30     die("Database connection failed: " . mysqli_connect_error());
31 }
32
33 $query = "SELECT * FROM Books LIMIT $offset, $books_per_page";
34 $result = $dbc->query($query);
35 ?>
```

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Part 2

```
23
24     $_SESSION['cart'][] = $book_id;
25     $_SESSION['added_message'] = "Book added to cart!";
26 }
27
28 showTemplate($title, $page);
29
30 if (!$dbc) {
31     die("Database connection failed: " . mysqli_connect_error());
32 }
33 $query = "SELECT * FROM Books LIMIT $offset, $books_per_page";
34 $result = $dbc->query($query);
35 ?>
36 <!DOCTYPE html>
37 <html>
38 <head>
39     <title>Book Catalog</title>
40     <meta charset="utf-8">
41     <link rel="stylesheet" href="css/mystyles.css">
42 </head>
43 <body>
44
45 <div class="container">
46     <h1>Book Catalog</h1>
47
48     <?php if (isset($_SESSION['added_message'])): ?>
49         <p class="success-message"><?php echo $_SESSION['added_message']; ?></p>
50     <?php unset($_SESSION['added_message']); ?>
51     <?php endif; ?>
52
53     <div class="book-grid">
54         <?php while ($book = $result->fetch_assoc()): ?>
55             <div class="book-item">
56                 <a href="book.php?id=<?php echo $book['book_id']; ?>">
```

Featured books:

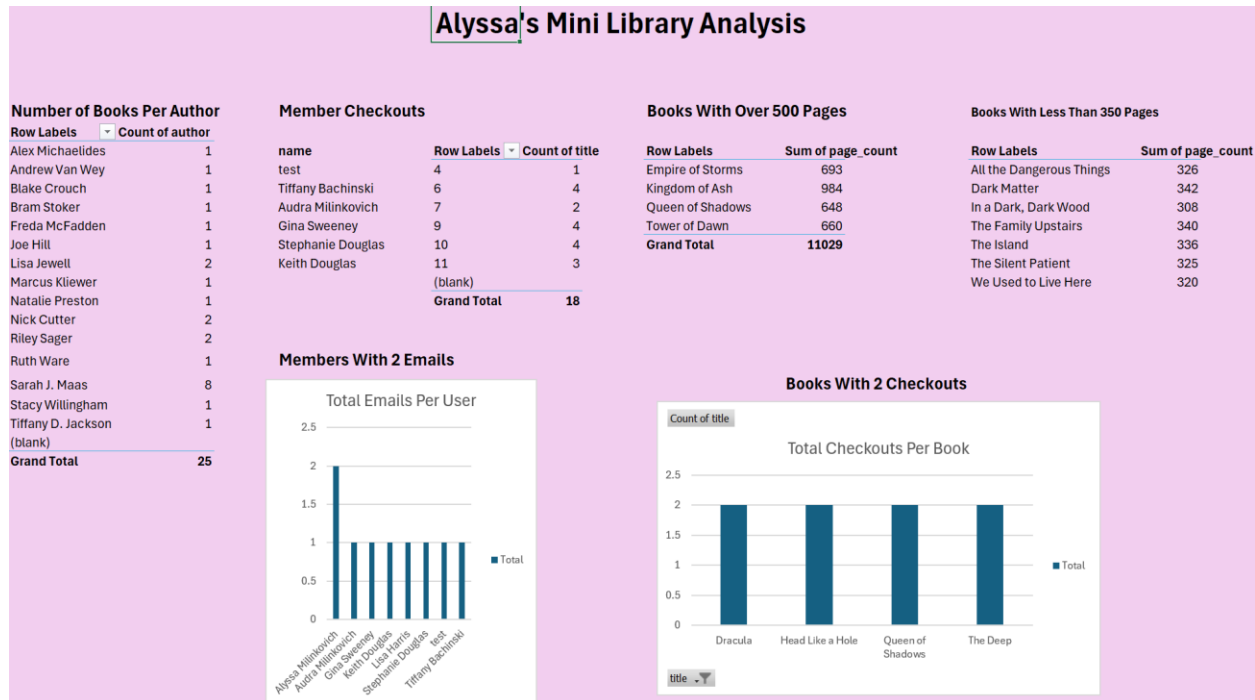
```
<section class="featured-books">
    <h2>Featured Books</h2>
    <div class="book-list">
        <div class="book">
            <a href="book.php?id=1">
                
                <p><strong>Throne of Glass</strong> by Sarah J. Maas</p>
            </a>
        </div>
        <div class="book">
            <a href="book.php?id=18">
                
                <p><strong>The Silent Patient</strong> by Alex Michaelides</p>
            </a>
        </div>
    </div>
</section>
</div>
```

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Part 2
Week 15

4/25 5 Hours:

2 Hours – Creating Data Analysis

3 Hours – All documentation and video creation



List tasks that were not completed and reasons. – I was able to complete all of the tasks I set out to do. Yay!

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Part 2

Total number of hours spent on the project

< > Mar 16 - Mar 22 ▾ This week

\$ Billable status Tag Tracked time

Timesheet Time entries

Task / Location	Tue, Mar 18	Wed, Mar 19	Thu, Mar 20	Fri, Mar 21	Total
	0h	4h 15m	3h 30m	0h	7h 45m
Setup server, hosting, and database ✔ Complete • Team ... / Proj... / Capstone Project	—	4h 15m	3h 30m	—	7h 45m ...

< > Mar 23 - Mar 29 ▾ This week

\$ Billable status Tag Tracked time

Timesheet Time entries

Task / Location	25	Wed, Mar 26	Thu, Mar 27	Fri, Mar 28	Sat, Mar 29	Total
	—	0h	5h	5h	0h	10h
Setup Main page, Membership Signup page, and Contact Page ✔ Complete • Team ... / Proj... / Capstone Project	—	—	5h	5h	—	10h ...

< > Mar 30 - Apr 5 ▾ This week

\$ Billable status Tag Tracked time

Timesheet Time entries

Task / Location	Wed, Apr 2	Thu, Apr 3	Fri, Apr 4	Sat, Apr 5	Total
	—	5h 30m	0h	4h 30m	10h
Setup Book Catalog, MyAccount, and Checkout Page. ✔ Complete • Team ... / Proj... / Capstone Project	—	5h 30m	—	4h 30m	10h ...

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Part 2

< >

Apr 6 - Apr 12

This week

\$ Billable status

Tag

Tracked time

Timesheet

Time entries

Task / Location	Wed, Apr 9 0h	Thu, Apr 10 5h	Fri, Apr 11 3h	Sat, Apr 12 0h	Total 8h
▶ No task selected	—	5h	3h	—	8h ...

< >

Apr 13 - Apr 19

This week

\$ Billable status

Tag

Tracked time

Timesheet

Time entries

Task / Location	Tue, Apr 15 0h	Wed, Apr 16 2h	Thu, Apr 17 3h	Fri, Apr 18 0h	Total 5h
🔍 User Testing ▶ ✓ Complete • Team ... / Proj... / Capstone Project	—	2h	—	—	2h ...
Debugging per feedback ▶ ✓ Complete • Team ... / Proj... / Capstone Project	—	—	3h	—	3h ...

< >

Apr 20 - Apr 26

This week

\$ Billable status

Tag

Tracked time

Timesheet

Time entries

Task / Location	Sun, Apr 20 0h	Mon, Apr 21 0h	Tue, Apr 22 0h	Wed, Apr 23 0h	Thu, Apr 24 0h	Fri, Apr 25 5h	Sat, Apr 26 0h	Total 5h
Create data visualization and library analytics ✓ Complete • Team Space / Projects / Capstone Project	—	—	—	—	—	—	—	— ...
Documentation ✓ Complete • Team Space / Projects / Capstone Project	—	—	—	—	—	—	—	— ...
▶ No task selected	—	—	—	—	—	5h	—	5h ...

+ Add task

Total hours: 45.75 Hours

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Part 2

Team Space / Projects / Capstone Project

▼ Capstone Project ...

▼ **COMPLETE** 7 ... + Add Task

Name	Due date	Priority	
✓ Setup server, hosting, and database	Mar 23	🚩	...
✓ Setup Main page, Membership Signup page, and Contact Page	Mar 30	🚩	...
✓ Setup Book Catalog, MyAccount, and Checkout Page.	Apr 6	🚩	...
✓ Setup Activity Page and features of databases	Apr 13	🚩	...
✓ Debugging per feedback	📅	🚩	...
✓ Create data visualization and library analytics	6 days ago	🚩	...
✓ User Testing (family and friends) and finalizing documentation.	Tomorrow	🚩	...

+ Add Task

► **TO DO** 0 ... + Add Task

+ New status

Your reflection/conclusion on the project.

I really enjoyed creating this Capstone Project. I was able to combine my love for books, websites, and using my education. I was able to create an interactive website with html/css, php, and js. I got to express some of my creative side with my project. I had some frustrations and learning moments. Especially when it came to debugging my code, but after going through my previous books and taking my time, I was able to get everything figured out. My Project Management Software, ClickUp was frustrating to use. It didn't load very well and a lot of the features for the Dashboard you have to use the paid version. I would pick a different Project Management Software if I had to do this again.