

JS-2 Project

Learning Management System (LMS)

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Complete Source Code Documentation

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1. Folder Structure

js-2/

```
■■■ index.html          # Login page

■■■ assignments.html    # Assignments management page

■■■ courses.html        # Courses list page

■■■ dashboard.html      # Dashboard with stats

■■■ profile.html        # User profile page

■■■ signup.html         # User registration page

■■■ README.md           # Project documentation

■■■ JS_IMPLEMENTATION_GUIDE.md # JavaScript implementation guide

■■■ PROJECT_SUMMARY.md  # Complete project summary

■■■ netlify.toml        # Netlify configuration

■

■■■ css/

■   ■■■ main.css        # Global styles, variables, login page
■   ■■■ layout.css      # Layout, sidebar, responsive design
■   ■■■ component.css   # Component styles (cards, buttons, forms)
■

■■■ js/

■   ■■■ auth.js         # Login validation module
■   ■■■ assignments.js  # Assignment management module
■   ■■■ courses.js      # Course list rendering module
■   ■■■ dashboard.js    # Dashboard rendering module
■   ■■■ profile.js      # Profile edit module
■   ■■■ signup.js       # User registration module
■   ■■■ theme.js        # Theme switcher & sidebar toggle
■   ■■■ utils.js        # Utility helper functions
■

■■■ images/             # Image assets folder (empty)
```

2. HTML Files

File: index.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>LMS Login</title>

    <link rel="stylesheet" href="css/main.css">

    <link rel="stylesheet" href="css/layout.css">

    <link rel="stylesheet" href="css/component.css">

</head>

<body>

    <!-- Alert container for notifications -->

    <div id="alertContainer"></div>

    <main class="login-container">

        <form class="login-form" id="loginForm">

            <h1>LMS Login Page</h1>

            <div class="form-group">

                <label for="username">Username:</label>

                <input type="text" id="username" name="username" placeholder="Enter your username"

                <span class="error-message" id="usernameError"></span>

            </div>

            <div class="form-group">

                <label for="password">Password:</label>

                <input type="password" id="password" name="password" placeholder="Enter your pass

                <span class="error-message" id="passwordError"></span>

            </div>

            <button id="loginButton" type="submit" class="btn btn-primary">Login</button>

            <div style="text-align: center; margin-top: 1rem;">

                <p style="color: var(--text-light);">Don't have an account? <a href="signup
```

```
</div>

<p>Username : guest</p> <p>Password : 1234</p></p>

</form>

</main>

<script src="js/auth.js"></script>

</body>

</html>
```

File: dashboard.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>LMS Dashboard</title>

    <link rel="stylesheet" href="css/main.css">

    <link rel="stylesheet" href="css/layout.css">

    <link rel="stylesheet" href="css/component.css">

</head>

<body>

    <!-- Alert container for notifications -->

    <div id="alertContainer"></div>

    <div class="app-container">

        <!-- Sidebar Navigation -->

        <aside class="sidebar" id="sidebar">

            <div class="sidebar-header">

                <h2>LMS Portal</h2>

            </div>

            <nav class="sidebar-nav">

                <ul>

                    <li><a href="dashboard.html" class="nav-link" data-page="dashboard">

                    <li><a href="courses.html" class="nav-link" data-page="courses">Cour

                    <li><a href="assignments.html" class="nav-link" data-page="assignments"

                    <li><a href="profile.html" class="nav-link" data-page="profile">Prof

                    <li><a href="index.html" class="nav-link">Logout</a></li>

                </ul>

            </nav>

        </aside>

        <!-- Sidebar overlay for mobile -->

        <div class="sidebar-overlay" id="sidebarOverlay"></div>

        <!-- Main Content Area -->
```

```

    <main class="main-content">

        <!-- Top Bar -->

        <div class="top-bar">

            <button class="menu-toggle" id="menuToggle" aria-label="Toggle Menu">☰</button>

            <h1>Welcome, <span id="userName">Student</span></h1>

            <button class="theme-toggle" id="themeToggle" aria-label="Toggle Theme">☀</button>

        </div>

        <!-- Dashboard Content -->

        <div class="dashboard-container">

            <!-- Stats Cards Grid - Will be populated by JavaScript -->

            <div class="stats-grid" id="statsGrid">

                <!-- Dashboard stat cards will be inserted here by dashboard.js -->

            </div>

            <!-- Upcoming Assignments Section -->

            <div class="dashboard-section">

                <h2>Upcoming Assignments</h2>

                <div class="assignments-preview" id="assignmentsPreview">

                    <!-- Assignment preview items will be inserted here by dashboard.js -->

                </div>

            </div>

        </div>

    </main>

</div>

<script src="js/dashboard.js"></script>

<script src="js/theme.js"></script>

</body>

</html>

```

File: courses.html

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>My Courses - LMS</title>

  <link rel="stylesheet" href="css/main.css">

  <link rel="stylesheet" href="css/layout.css">

  <link rel="stylesheet" href="css/component.css">

</head>

<body>

  <!-- Alert container for notifications -->

  <div id="alertContainer"></div>

  <div class="app-container">

    <!-- Sidebar Navigation -->

    <aside class="sidebar" id="sidebar">

      <div class="sidebar-header">

        <h2>LMS Portal</h2>

      </div>

      <nav class="sidebar-nav">

        <ul>

          <li><a href="dashboard.html" class="nav-link" data-page="dashboard">

          <li><a href="courses.html" class="nav-link" data-page="courses">Cour

          <li><a href="assignments.html" class="nav-link" data-page="assignments"

          <li><a href="profile.html" class="nav-link" data-page="profile">Prof

          <li><a href="index.html" class="nav-link">Logout</a></li>

        </ul>

      </nav>

    </aside>

    <!-- Sidebar overlay for mobile -->

    <div class="sidebar-overlay" id="sidebarOverlay"></div>

    <!-- Main Content Area -->
```



```

    <main class="main-content">

        <!-- Top Bar -->

        <div class="top-bar">

            <button class="menu-toggle" id="menuToggle" aria-label="Toggle Menu">☰</button>

            <h1>My Courses</h1>

            <button class="theme-toggle" id="themeToggle" aria-label="Toggle Theme">☀</button>

        </div>

        <!-- Courses Content -->

        <div class="dashboard-container">

            <div class="dashboard-section">

                <h2>Enrolled Courses</h2>

                <p>Below are all the courses you are currently enrolled in. Click on a cou

            </div>

            <!-- Course Cards Grid - Will be populated by JavaScript -->

            <div class="course-grid" id="courseGrid">

                <!-- Course cards will be inserted here by courses.js -->

            </div>

        </div>

    </main>

</div>

<script src="js/courses.js"></script>

<script src="js/theme.js"></script>

</body>

</html>

```

File: assignments.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Assignments - LMS</title>

    <link rel="stylesheet" href="css/main.css">

    <link rel="stylesheet" href="css/layout.css">

    <link rel="stylesheet" href="css/component.css">

</head>

<body>

    <!-- Alert container for notifications -->

    <div id="alertContainer"></div>

    <div class="app-container">

        <!-- Sidebar Navigation -->

        <aside class="sidebar" id="sidebar">

            <div class="sidebar-header">

                <h2>LMS Portal</h2>

            </div>

            <nav class="sidebar-nav">

                <ul>

                    <li><a href="dashboard.html" class="nav-link" data-page="dashboard">

                        <li><a href="courses.html" class="nav-link" data-page="courses">Cour

                        <li><a href="assignments.html" class="nav-link" data-page="assignments"

                        <li><a href="profile.html" class="nav-link" data-page="profile">Prof

                        <li><a href="index.html" class="nav-link">Logout</a></li>

                    </ul>

                </nav>

            </aside>

            <!-- Sidebar overlay for mobile -->

            <div class="sidebar-overlay" id="sidebarOverlay"></div>

            <!-- Main Content Area -->
```

```

    <main class="main-content">

        <!-- Top Bar -->

        <div class="top-bar">

            <button class="menu-toggle" id="menuToggle" aria-label="Toggle Menu">☰</button>

            <h1>My Assignments</h1>

            <button class="theme-toggle" id="themeToggle" aria-label="Toggle Theme">☀</button>

        </div>

        <!-- Assignments Content -->

        <div class="dashboard-container">

            <div class="dashboard-section">

                <h2>All Assignments</h2>

                <p>View all your assignments, their status, and due dates. Click "Submit"</p>

            </div>

            <!-- Assignments List - Will be populated by JavaScript -->

            <div class="assignments-list" id="assignmentsList">

                <!-- Assignment items will be inserted here by assignments.js -->

            </div>

        </div>

    </main>

</div>

<script src="js/assignments.js"></script>

<script src="js/theme.js"></script>

</body>

</html>

```

File: profile.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>My Profile - LMS</title>

    <link rel="stylesheet" href="css/main.css">

    <link rel="stylesheet" href="css/layout.css">

    <link rel="stylesheet" href="css/component.css">

</head>

<body>

    <!-- Alert container for notifications -->

    <div id="alertContainer"></div>

    <div class="app-container">

        <!-- Sidebar Navigation -->

        <aside class="sidebar" id="sidebar">

            <div class="sidebar-header">

                <h2>LMS Portal</h2>

            </div>

            <nav class="sidebar-nav">

                <ul>

                    <li><a href="dashboard.html" class="nav-link" data-page="dashboard">

                    <li><a href="courses.html" class="nav-link" data-page="courses">Cour

                    <li><a href="assignments.html" class="nav-link" data-page="assignments"

                    <li><a href="profile.html" class="nav-link" data-page="profile">Prof

                    <li><a href="index.html" class="nav-link">Logout</a></li>

                </ul>

            </nav>

        </aside>

        <!-- Sidebar overlay for mobile -->

        <div class="sidebar-overlay" id="sidebarOverlay"></div>

        <!-- Main Content Area -->
```

```

<main class="main-content">

  <!-- Top Bar -->

  <div class="top-bar">

    <button class="menu-toggle" id="menuToggle" aria-label="Toggle Menu">☰</button>

    <h1>My Profile</h1>

    <button class="theme-toggle" id="themeToggle" aria-label="Toggle Theme">☀</button>

  </div>

  <!-- Profile Content -->

  <div class="dashboard-container">

    <div class="profile-container">

      <div class="profile-card">

        <!-- Profile Header -->

        <div class="profile-header">

          <div class="profile-avatar" id="profileAvatar">

            S

          </div>

          <div class="profile-info">

            <h2 id="profileName">Student Name</h2>

            <p id="profileEmail">student@university.edu</p>

          </div>

        </div>

        <!-- Profile Form -->

        <form class="profile-form" id="profileForm">

          <div class="form-group">

            <label for="fullName">Full Name</label>

            <input type="text" id="fullName" name="fullName" value="John Doe">

          </div>

          <div class="form-group">

            <label for="email">Email Address</label>

            <input type="email" id="email" name="email" value="john.doe@unive">

          </div>

          <div class="form-group">

            <label for="studentId">Student ID</label>

            <input type="text" id="studentId" name="studentId" value="STU1234">

          </div>

        </form>

      </div>

    </div>

  </div>

</main>

```

```
</div>

<div class="form-group">

    <label for="department">Department</label>

    <input type="text" id="department" name="department" value="Compu

</div>

<div class="form-group">

    <label for="phone">Phone Number</label>

    <input type="tel" id="phone" name="phone" value="+1234567890" dis

</div>

<div class="form-group">

    <label for="year">Academic Year</label>

    <input type="text" id="year" name="year" value="3rd Year" disable

</div>

<!-- Form Actions -->

<div class="form-actions">

    <button type="button" id="editButton" class="btn btn-primary">

    <button type="submit" id="saveButton" class="btn btn-success" sty

    <button type="button" id="cancelButton" class="btn btn-danger" st

</div>

</form>

</div>

</div>

</main>

</div>

<script src="js/profile.js"></script>

<script src="js/theme.js"></script>

</body>

</html>
```

File: signup.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Sign Up - LMS</title>

    <link rel="stylesheet" href="css/main.css">

    <link rel="stylesheet" href="css/layout.css">

    <link rel="stylesheet" href="css/component.css">

</head>

<body>

    <!-- Alert container for notifications -->

    <div id="alertContainer"></div>

    <main class="login-container">

        <form class="login-form" id="signupForm">

            <h1>Create Account</h1>

            <div class="form-group">

                <label for="signupUsername">Username:</label>

                <input type="text" id="signupUsername" name="username" placeholder="Choose a user

                <span class="error-message" id="signupUsernameError"></span>

            </div>

            <div class="form-group">

                <label for="signupEmail">Email:</label>

                <input type="email" id="signupEmail" name="email" placeholder="Enter your email"&

                <span class="error-message" id="signupEmailError"></span>

            </div>

            <div class="form-group">

                <label for="signupPassword">Password:</label>

                <input type="password" id="signupPassword" name="password" placeholder="Create a

                <span class="error-message" id="signupPasswordError"></span>

            </div>

            <div class="form-group">
```

```
<label for="confirmPassword">Confirm Password:</label>

<input type="password" id="confirmPassword" name="confirmPassword" placeholder="C

<span class="error-message" id="confirmPasswordError"></span>

</div>

<button id="signupButton" type="submit" class="btn btn-primary">Create Account</

<div style="text-align: center; margin-top: 1rem;">

    <p style="color: var(--text-light);">Already have an account? <a href="inde

</div>

</form>

</main>

<script src="js/signup.js"></script>

</body>

</html>
```


3. CSS Files

File: css/main.css

```
/* @import url('https://fonts.googleapis.com/css2?family=Montserrat:ital,wght@0,100..900;1,100..900&
*/

* {
  margin: 0;
  padding: 0;
  box-sizing: border-box;
}

:root {
  --primary-color: #4f46e5;
  --primary-hover: #4338ca;
  --secondary-color: #06b6d4;
  --success-color: #10b981;
  --danger-color: #ef4444;
  --warning-color: #f59e0b;
  --dark-bg: #1e293b;
  --light-bg: #f8fafc;
  --text-dark: #0f172a;
  --text-light: #64748b;
  --border-color: #e2e8f0;
  --shadow: 0 4px 6px -1px rgba(0, 0, 0, 0.1), 0 2px 4px -1px rgba(0, 0, 0, 0.06);
  --shadow-lg: 0 10px 15px -3px rgba(0, 0, 0, 0.1), 0 4px 6px -2px rgba(0, 0, 0, 0.05);
}

body {
  font-family: 'Montserrat', sans-serif;
  background: linear-gradient(135deg, #134e5e 0%, #71b280 100%);
  color: var(--text-dark);
  line-height: 1.6;
  min-height: 100vh;
}
```

```
.login-container {  
  display: flex;  
  justify-content: center;  
  align-items: center;  
  min-height: 100vh;  
  padding: 20px;  
}  
  
.login-container h1 {  
  text-align: center;  
  color: var(--dark-bg);  
  font-size: 2rem;  
  font-weight: 700;  
  margin-bottom: 2rem;  
}  
  
.login-form {  
  background: white;  
  padding: 3rem;  
  border-radius: 16px;  
  box-shadow: var(--shadow-lg);  
  width: 100%;  
  max-width: 450px;  
  animation: fadeIn 0.5s ease-in;  
}  
  
@keyframes fadeIn {  
  from {  
    opacity: 0;  
    transform: translateY(-20px);  
  }  
  to {  
    opacity: 1;  
    transform: translateY(0);  
  }  
}  
  
.login-form .form-group {
```

```
margin-bottom: 1.5rem;
}

.login-form .form-group:last-of-type {
margin-bottom: 2rem;
}

.login-form label {
display: block;

font-weight: 600;

color: var(--text-dark);

margin-bottom: 0.5rem;

font-size: 0.95rem;
}

.login-form input {
width: 100%;

padding: 0.875rem 1rem;

border: 2px solid var(--border-color);

border-radius: 8px;

font-size: 1rem;

font-family: 'Montserrat', sans-serif;

transition: all 0.3s ease;

background-color: var(--light-bg);
}

.login-form input:focus {
outline: none;

border-color: var(--primary-color);

background-color: white;

box-shadow: 0 0 0 3px rgba(79, 70, 229, 0.1);
}

.login-form button {
width: 100%;

padding: 1rem;

background: linear-gradient(135deg, var(--primary-color), var(--secondary-color));

color: white;

border: none;
}
```

```

border-radius: 8px;

font-size: 1rem;

font-weight: 600;

font-family: 'Montserrat', sans-serif;

cursor: pointer;

transition: all 0.3s ease;

box-shadow: var(--shadow);
}

.login-form button:hover {

transform: translateY(-2px);

box-shadow: var(--shadow-lg);
}

.login-form button:active {

transform: translateY(0);
}

.login-form button:disabled {

background: var(--text-light);

cursor: not-allowed;

transform: none;
}

.error-message {

color: var(--danger-color);

font-size: 0.875rem;

margin-top: 0.5rem;

display: none;
}

.error-message.show {

display: block;
}

/* ===== Utility Classes ===== */

.text-center {

text-align: center;
}

.mt-1 { margin-top: 0.5rem; }

```

```
.mt-2 { margin-top: 1rem; }  
.mt-3 { margin-top: 1.5rem; }  
.mb-1 { margin-bottom: 0.5rem; }  
.mb-2 { margin-bottom: 1rem; }  
.mb-3 { margin-bottom: 1.5rem; }  
  
.hidden {  
    display: none;  
}  
  
.visible {  
    display: block;  
}
```

File: css/layout.css

```
/* ===== Layout Styles ===== */

/* App Container */
.app-container {
  display: flex;
  min-height: 100vh;
  position: relative;
}

/* Sidebar Styles */
.sidebar {
  width: 250px;
  background-color: #2d3748;
  color: white;
  position: fixed;
  top: 0;
  left: 0;
  height: 100vh;
  overflow-y: auto;
  transition: transform 0.3s ease;
  z-index: 1000;
}

.sidebar-header {
  padding: 1.5rem;
  border-bottom: 1px solid rgba(255, 255, 255, 0.1);
}

.sidebar-header h2 {
  font-size: 1.5rem;
  font-weight: 700;
  margin: 0;
}

.sidebar-nav ul {
  list-style: none;
  padding: 1rem 0;
```

```
margin: 0;

}

.sidebar-nav li {

margin: 0;

}

.sidebar-nav a {

display: block;

padding: 1rem 1.5rem;

color: #cbd5e0;

text-decoration: none;

font-weight: 500;

transition: all 0.3s ease;

}

.sidebar-nav a:hover {

background-color: rgba(255, 255, 255, 0.1);

color: white;

padding-left: 2rem;

}

.sidebar-nav a.active {

background-color: rgba(79, 70, 229, 0.3);

color: #a5b4fc;

border-left: 4px solid #4f46e5;

padding-left: calc(1.5rem - 4px);

}

/* Main Content Area */

.main-content {

flex: 1;

margin-left: 250px;

min-height: 100vh;

background-color: rgba(255, 255, 255, 0.05);

}

/* Top Bar */

.top-bar {

background-color: rgba(255, 255, 255, 0.95);
```

```
padding: 1rem 2rem;

border-bottom: 1px solid var(--border-color);

display: flex;

justify-content: space-between;

align-items: center;

position: sticky;

top: 0;

z-index: 100;

box-shadow: var(--shadow);
}

.top-bar h1 {

font-size: 1.5rem;

color: var(--text-dark);

margin: 0;
}

.menu-toggle {

display: none;

background: none;

border: none;

font-size: 1.5rem;

cursor: pointer;

color: var(--text-dark);

padding: 0.5rem;
}

.theme-toggle {

background: var(--primary-color);

color: white;

border: none;

padding: 0.5rem 1rem;

border-radius: 8px;

cursor: pointer;

font-size: 1.2rem;

transition: all 0.3s ease;
}
```



```
.theme-toggle:hover {  
    transform: scale(1.1);  
}  
  
/* Dashboard Container */  
.dashboard-container {  
    padding: 2rem;  
    max-width: 1400px;  
}  
  
/* Mobile Responsive */  
@media (max-width: 768px) {  
    .sidebar {  
        transform: translateX(-100%);  
    }  
    .sidebar.active {  
        transform: translateX(0);  
    }  
    .main-content {  
        margin-left: 0;  
    }  
    .menu-toggle {  
        display: block;  
    }  
    .top-bar h1 {  
        font-size: 1.2rem;  
    }  
    .dashboard-container {  
        padding: 1rem;  
    }  
}  
  
/* Sidebar Overlay for Mobile */  
.sidebar-overlay {  
    display: none;  
    position: fixed;  
    top: 0;
```

```
    left: 0;

    width: 100%;

    height: 100%;

    background-color: rgba(0, 0, 0, 0.5);

    z-index: 999;
}

.sidebar-overlay.active {

    display: block;
}

@media (min-width: 769px) {

    .sidebar-overlay {

        display: none !important;
    }
}
```

File: css/component.css

```
/* ===== Component Styles ===== */

/* Dashboard Stats Grid */

.stats-grid {

  display: grid;

  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));

  gap: 1.5rem;

  margin-bottom: 2rem;

}

.stat-card {

  background: white;

  padding: 1.5rem;

  border-radius: 12px;

  box-shadow: var(--shadow);

  transition: all 0.3s ease;

}

.stat-card:hover {

  transform: translateY(-5px);

  box-shadow: var(--shadow-lg);

}

.stat-card h3 {

  font-size: 0.875rem;

  color: var(--text-light);

  font-weight: 600;

  text-transform: uppercase;

  margin-bottom: 0.5rem;

  letter-spacing: 0.5px;

}

.stat-card .stat-value {

  font-size: 2rem;

  font-weight: 700;

  color: var(--text-dark);

  margin-bottom: 0.25rem;

}
```

```
}

.stat-card .stat-label {

  font-size: 0.875rem;

  color: var(--text-light);

}

/* Dashboard Section */

.dashboard-section {

  background: white;

  padding: 2rem;

  border-radius: 12px;

  box-shadow: var(--shadow);

  margin-bottom: 2rem;

}

.dashboard-section h2 {

  font-size: 1.5rem;

  color: var(--text-dark);

  margin-bottom: 1.5rem;

  border-bottom: 2px solid var(--primary-color);

  padding-bottom: 0.5rem;

}

/* Assignments Preview */

.assignments-preview {

  display: flex;

  flex-direction: column;

  gap: 1rem;

}

.assignment-item {

  display: flex;

  justify-content: space-between;

  align-items: center;

  padding: 1rem;

  background-color: var(--light-bg);

  border-radius: 8px;

  border-left: 4px solid var(--primary-color);

}
```

```
    transition: all 0.3s ease;
  }

.assignment-item:hover {
  background-color: #e2e8f0;
  transform: translateX(5px);
}

.assignment-info h4 {
  font-size: 1rem;
  color: var(--text-dark);
  margin-bottom: 0.25rem;
}

.assignment-info p {
  font-size: 0.875rem;
  color: var(--text-light);
  margin: 0;
}

.assignment-status {
  padding: 0.5rem 1rem;
  border-radius: 20px;
  font-size: 0.875rem;
  font-weight: 600;
}

.assignment-status.pending {
  background-color: #fef3c7;
  color: #92400e;
}

.assignment-status.submitted {
  background-color: #d1fae5;
  color: #065f46;
}

.assignment-status.late {
  background-color: #fee2e2;
  color: #991b1b;
}
```

```
/* Course Cards */

.course-grid {

  display: grid;

  grid-template-columns: repeat(auto-fill, minmax(300px, 1fr));

  gap: 1.5rem;
}

.course-card {

  background: white;

  border-radius: 12px;

  box-shadow: var(--shadow);

  overflow: hidden;

  transition: all 0.3s ease;
}

.course-card:hover {

  transform: translateY(-5px);

  box-shadow: var(--shadow-lg);
}

.course-header {

  padding: 1.5rem;

  background: linear-gradient(135deg, var(--primary-color), var(--secondary-color));

  color: white;
}

.course-header h3 {

  font-size: 1.25rem;

  margin-bottom: 0.5rem;
}

.course-header p {

  font-size: 0.875rem;

  opacity: 0.9;

  margin: 0;
}

.course-body {

  padding: 1.5rem;
}
```

```
.course-info {  
    display: flex;  
    justify-content: space-between;  
    margin-bottom: 1rem;  
}  
  
.course-info span {  
    font-size: 0.875rem;  
    color: var(--text-light);  
}  
  
.course-status {  
    display: inline-block;  
    padding: 0.25rem 0.75rem;  
    border-radius: 20px;  
    font-size: 0.75rem;  
    font-weight: 600;  
    text-transform: uppercase;  
}  
  
.course-status.active {  
    background-color: #d1fae5;  
    color: #065f46;  
}  
  
.course-status.completed {  
    background-color: #dbeeaf;  
    color: #1e40af;  
}  
  
.course-progress {  
    margin-top: 1rem;  
}  
  
.progress-bar {  
    width: 100%;  
    height: 8px;  
    background-color: #e2e8f0;  
    border-radius: 10px;  
    overflow: hidden;
```

```
}

.progress-fill {

  height: 100%;

  background: linear-gradient(90deg, var(--primary-color), var(--secondary-color));

  transition: width 0.3s ease;

}

/* Buttons */

.btn {

  padding: 0.75rem 1.5rem;

  border-radius: 8px;

  border: none;

  font-weight: 600;

  cursor: pointer;

  transition: all 0.3s ease;

  font-family: 'Montserrat', sans-serif;

}

.btn-primary {

  background: var(--primary-color);

  color: white;

}

.btn-primary:hover {

  background: var(--primary-hover);

  transform: translateY(-2px);

  box-shadow: var(--shadow);

}

.btn-success {

  background: var(--success-color);

  color: white;

}

.btn-success:hover {

  background: #059669;

}

.btn-danger {

  background: var(--danger-color);
```



```
        color: white;
    }

    .btn-danger:hover {
        background: #dc2626;
    }

    .btn:disabled {
        background: var(--text-light);
        cursor: not-allowed;
        transform: none;
    }
}

/* Profile Styles */

.profile-container {
    max-width: 800px;
    margin: 0 auto;
}

.profile-card {
    background: white;
    border-radius: 12px;
    box-shadow: var(--shadow);
    padding: 2rem;
}

.profile-header {
    display: flex;
    align-items: center;
    gap: 2rem;
    margin-bottom: 2rem;
    padding-bottom: 2rem;
    border-bottom: 1px solid var(--border-color);
}

.profile-avatar {
    width: 120px;
    height: 120px;
    border-radius: 50%;
    background: linear-gradient(135deg, var(--primary-color), var(--secondary-color));
```

```
display: flex;

align-items: center;

justify-content: center;

font-size: 3rem;

color: white;

font-weight: 700;
}

.profile-info h2 {

font-size: 1.75rem;

color: var(--text-dark);

margin-bottom: 0.5rem;
}

.profile-info p {

color: var(--text-light);

font-size: 1rem;
}

.profile-form {

display: grid;

gap: 1.5rem;
}

.form-group {

display: flex;

flex-direction: column;
}

.form-group label {

font-weight: 600;

color: var(--text-dark);

margin-bottom: 0.5rem;
}

.form-group input {

padding: 0.875rem;

border: 2px solid var(--border-color);

border-radius: 8px;

font-size: 1rem;
```

```
font-family: 'Montserrat', sans-serif;

transition: all 0.3s ease;

}

.form-group input:focus {

  outline: none;

  border-color: var(--primary-color);

  box-shadow: 0 0 0 3px rgba(79, 70, 229, 0.1);

}

.form-group input:disabled {

  background-color: var(--light-bg);

  cursor: not-allowed;

}

.form-actions {

  display: flex;

  gap: 1rem;

  margin-top: 1rem;

}

/* Alert Notification */

.alert {

  padding: 1rem 1.5rem;

  border-radius: 8px;

  margin-bottom: 1rem;

  display: flex;

  align-items: center;

  gap: 0.75rem;

  animation: slideDown 0.3s ease;

}

@keyframes slideDown {

  from {

    opacity: 0;

    transform: translateY(-20px);

  }

  to {

    opacity: 1;

  }

}
```

```

        transform: translateY(0);
    }
}

.alert.success {
    background-color: #d1fae5;
    color: #065f46;
    border-left: 4px solid var(--success-color);
}

.alert.error {
    background-color: #fee2e2;
    color: #991b1b;
    border-left: 4px solid var(--danger-color);
}

.alert.info {
    background-color: #dbeeaf;
    color: #1e40af;
    border-left: 4px solid var(--primary-color);
}

/* Dark Mode Support */
body.dark-mode {
    background: linear-gradient(135deg, #1a202c 0%, #2d3748 100%);
}

body.dark-mode .stat-card,
body.dark-mode .dashboard-section,
body.dark-mode .course-card,
body.dark-mode .profile-card {
    background-color: #2d3748;
    color: white;
}

body.dark-mode .top-bar {
    background-color: #1a202c;
    border-bottom-color: #4a5568;
}

body.dark-mode .stat-card h3,

```

```

body.dark-mode .stat-card .stat-value,
body.dark-mode .dashboard-section h2,
body.dark-mode .course-body,
body.dark-mode .profile-info h2,
body.dark-mode .form-group label,
body.dark-mode .top-bar h1 {
    color: white;
}

body.dark-mode .assignment-item {
    background-color: #4a5568;
}

body.dark-mode .form-group input {
    background-color: #4a5568;
    border-color: #4a5568;
    color: white;
}

body.dark-mode .form-group input:disabled {
    background-color: #1a202c;
}

/* Responsive Design */

@media (max-width: 768px) {
    .stats-grid {
        grid-template-columns: 1fr;
    }

    .course-grid {
        grid-template-columns: 1fr;
    }

    .profile-header {
        flex-direction: column;
        text-align: center;
    }

    .assignment-item {
        flex-direction: column;
        align-items: flex-start;
    }

```

```

        gap: 0.5rem;
    }

    .form-actions {
        flex-direction: column;
    }

    .form-actions .btn {
        width: 100%;
    }
}

/* ===== Assignments List Styles ===== */

.assignments-list {
    display: flex;
    flex-direction: column;
    gap: 1rem;
}

.assignment-card {
    background: white;
    padding: 1.5rem;
    border-radius: 12px;
    box-shadow: var(--shadow);
    display: flex;
    justify-content: space-between;
    align-items: center;
    transition: all 0.3s ease;
    border-left: 4px solid var(--primary-color);
}

.assignment-card:hover {
    box-shadow: var(--shadow-lg);
    transform: translateX(5px);
}

.assignment-card.late {
    border-left-color: var(--danger-color);
}

.assignment-card.submitted {

```

```
border-left-color: var(--success-color);

opacity: 0.8;
}

.assignment-details {

  flex: 1;
}

.assignment-details h3 {

  font-size: 1.125rem;

  color: var(--text-dark);

  margin-bottom: 0.5rem;
}

.assignment-details .assignment-meta {

  display: flex;

  gap: 1.5rem;

  font-size: 0.875rem;

  color: var(--text-light);

  margin-bottom: 0.5rem;
}

.assignment-details .assignment-course {

  font-weight: 600;

  color: var(--primary-color);
}

.assignment-details .assignment-due {

  display: flex;

  align-items: center;

  gap: 0.25rem;
}

.assignment-actions {

  display: flex;

  gap: 1rem;

  align-items: center;
}

.submit-btn {

  padding: 0.625rem 1.25rem;
```

```

border-radius: 8px;

border: none;

font-weight: 600;

cursor: pointer;

transition: all 0.3s ease;

font-family: 'Montserrat', sans-serif;

background: var(--success-color);

color: white;
}

.submit-btn:hover:not(:disabled) {

background: #059669;

transform: translateY(-2px);

box-shadow: var(--shadow);
}

.submit-btn:disabled {

background: var(--text-light);

cursor: not-allowed;

transform: none;
}

/* Alert Container */

#alertContainer {

position: fixed;

top: 20px;

right: 20px;

z-index: 9999;

max-width: 400px;
}

@media (max-width: 768px) {

.assignment-card {

flex-direction: column;

align-items: flex-start;

gap: 1rem;
}

.assignment-actions {

```



```
    width: 100%;

    justify-content: space-between;
}

#alertContainer {

    left: 20px;

    right: 20px;

    max-width: none;

}

}
```

4. JavaScript Files

File: js/auth.js

```
/**
 * auth.js - Login Validation Module
 *
 * Task 1: Login Validation (Client-Side)
 *
 * Requirements:
 * - Validate username and password fields
 * - Display error messages if fields are empty
 * - Allow login only if both fields are filled
 * - Redirect to dashboard page on successful validation
 *
 * JavaScript Requirements:
 * - Event handling (submit, click)
 * - DOM selection and manipulation
 * - Prevent default form submission
 *
 * Elements to interact with:
 * - #loginForm - form element
 * - #username - username input
 * - #password - password input
 * - #usernameError - error message for username
 * - #passwordError - error message for password
 * - #loginButton - submit button
 */

// Get DOM elements

const loginForm = document.getElementById('loginForm');

const username = document.getElementById('username');

const password = document.getElementById('password');

const usernameError = document.getElementById('usernameError');
```

```

const passwordError = document.getElementById('passwordError');

const loginButton = document.getElementById('loginButton');

loginForm.addEventListener('submit', (e) => {

    e.preventDefault();

    const usernameValue = username.value.trim();

    const passwordValue = password.value.trim();

    let isValid = true;

    // Validate username

    if (usernameValue === '') {

        usernameError.textContent = 'Username is required';

        usernameError.classList.add('show');

        username.style.borderColor = 'var(--danger-color)';

        isValid = false;

    } else if (usernameValue.length < 3) {

        usernameError.textContent = 'Username must be at least 3 characters';

        usernameError.classList.add('show');

        username.style.borderColor = 'var(--danger-color)';

        isValid = false;

    } else if (!/^[a-zA-Z0-9_]+$/.test(usernameValue)) {

        usernameError.textContent = 'Username can only contain letters, numbers, and underscore';

        usernameError.classList.add('show');

        username.style.borderColor = 'var(--danger-color)';

        isValid = false;

    } else {

        usernameError.classList.remove('show');

        username.style.borderColor = 'var(--border-color)';

    }

    // Validate password

    if (passwordValue === '') {

        passwordError.textContent = 'Password is required';

        passwordError.classList.add('show');

        password.style.borderColor = 'var(--danger-color)';

        isValid = false;

    } else {

```

```

        passwordError.classList.remove('show');

        password.style.borderColor = 'var(--border-color)';
    }

    // If validation passes, check credentials

    if (isValid) {

        // Check if user exists and password matches

        const users = JSON.parse(localStorage.getItem('users')) || [];

        const user = users.find(u => u.username.toLowerCase() === usernameValue.toLowerCase());

        if (!user) {

            usernameError.textContent = 'Username not found. Please sign up first.';

            usernameError.classList.add('show');

            username.style.borderColor = 'var(--danger-color)';

            return;

        }

        if (user.password !== passwordValue) {

            passwordError.textContent = 'Incorrect password';

            passwordError.classList.add('show');

            password.style.borderColor = 'var(--danger-color)';

            return;

        }

        // Successful login

        localStorage.setItem('username', user.username);

        localStorage.setItem('userEmail', user.email);

        localStorage.setItem('isLoggedIn', 'true');

        showSuccessMessage();

        setTimeout(() => {

            window.location.href = 'dashboard.html';

        }, 1000);

    }

});

// Clear error when user starts typing

username.addEventListener('input', () => {

    if (username.value.trim() !== '') {

        usernameError.classList.remove('show');

    }

});

```

```

        username.style.borderColor = 'var(--border-color)';
    }
});

password.addEventListener('input', () => {
    if (password.value.trim() !== '') {
        passwordError.classList.remove('show');
        password.style.borderColor = 'var(--border-color)';
    }
});

// Function to show success alert
function showSuccessMessage() {
    const alertContainer = document.getElementById('alertContainer');

    if (!alertContainer) return;

    const alert = document.createElement('div');

    alert.className = 'alert success';

    alert.innerHTML = `<span>Login successful! Redirecting to dashboard...</span>`;

    alertContainer.appendChild(alert);

    setTimeout(() => {
        alert.remove();
    }, 1500);
}

```

File: js/dashboard.js

```
/**
 * dashboard.js - Dashboard Module
 *
 * Task 3: Dynamic Dashboard Cards
 * Task 9: Navigation Active State
 * Task 10: Alert System
 */

// Sample data structure for dashboard stats
const dashboardStats = [
  {
    title: 'Total Courses',
    value: 6,
    label: 'Enrolled Courses'
  },
  {
    title: 'Assignments Due',
    value: 3,
    label: 'Pending Submissions'
  },
  {
    title: 'Attendance',
    value: '92%',
    label: 'Overall Attendance'
  },
  {
    title: 'GPA',
    value: '3.8',
    label: 'Current Semester'
  }
];

// Sample data for assignments preview
const upcomingAssignments = [
```

```

    {
      id: 1,

      title: 'Web Development Project',

      course: 'CS301',

      dueDate: '2026-02-15',

      status: 'pending'
    },

    {
      id: 2,

      title: 'Database Design',

      course: 'CS402',

      dueDate: '2026-02-18',

      status: 'pending'
    },

    {
      id: 3,

      title: 'Algorithm Analysis',

      course: 'CS505',

      dueDate: '2026-02-20',

      status: 'submitted'
    }
  ];

  // Initialize dashboard when page loads
  document.addEventListener('DOMContentLoaded', () => {
    displayUserName();

    renderDashboardStats();

    renderUpcomingAssignments();
  });

  // Display logged-in user's name
  function displayUserName() {
    const userName = document.getElementById('userName');

    if (userName) {
      const storedUsername = localStorage.getItem('username') || 'Student';

      userName.textContent = storedUsername;
    }
  }

```

```

    }
}

// Task 3: Render dashboard statistics cards

function renderDashboardStats() {

    const statsGrid = document.getElementById('statsGrid');

    if (!statsGrid) return;

    // Clear existing content

    statsGrid.innerHTML = '';

    // Loop through stats and create cards

    dashboardStats.forEach(stat => {

        const statCard = document.createElement('div');

        statCard.className = 'stat-card';

        statCard.innerHTML = `

            <h3>${stat.title}</h3>

            <div class="stat-value">${stat.value}</div>

            <div class="stat-label">${stat.label}</div>

        `;

        statsGrid.appendChild(statCard);

    });

}

// Render upcoming assignments preview

function renderUpcomingAssignments() {

    const assignmentsPreview = document.getElementById('assignmentsPreview');

    if (!assignmentsPreview) return;

    // Clear existing content

    assignmentsPreview.innerHTML = '';

    if (upcomingAssignments.length === 0) {

        assignmentsPreview.innerHTML = '<p style="color: var(--text-light);">No upcoming assign

        return;

    }

    // Loop through assignments and create preview items

    upcomingAssignments.forEach(assignment => {

        const assignmentItem = document.createElement('div');

        assignmentItem.className = 'assignment-item';

```



```

const dueDate = new Date(assignment.dueDate);

const today = new Date();

const daysUntil = Math.ceil((dueDate - today) / (1000 * 60 * 60 * 24));

let dueDateText = '';

if (daysUntil < 0) {

    dueDateText = 'Overdue';

} else if (daysUntil === 0) {

    dueDateText = 'Due today';

} else if (daysUntil === 1) {

    dueDateText = 'Due tomorrow';

} else {

    dueDateText = `Due in ${daysUntil} days`;

}

assignmentItem.innerHTML = `

    <div class="assignment-info">

        <h4>${assignment.title}</h4>

        <p>${assignment.course} • ${dueDateText}</p>

    </div>

    <span class="assignment-status ${assignment.status}">${assignment.status.toUpperCa

`;

assignmentsPreview.appendChild(assignmentItem);

});

}

```

File: js/courses.js

```
/**
 * courses.js - Courses Module
 *
 * Task 4: Course List Rendering
 *
 * Requirements:
 * - Store course details in a JavaScript array
 * - Dynamically generate course cards
 * - Display course status (Active / Completed)
 *
 * JavaScript Requirements:
 * - DOM creation (createElement)
 * - Template rendering using JavaScript
 * - Conditional rendering for status labels
 *
 * Elements to interact with:
 * - #courseGrid - container for course cards
 * - #menuToggle - sidebar toggle button
 *
 * Task 9: Navigation Active State
 * - Highlight active menu item based on current page
 */

// Sample data structure for courses
const courses = [
  {
    id: 1,
    name: 'Web Development',
    code: 'CS301',
    instructor: 'Dr. Smith',
    status: 'active',
    progress: 75,
    credits: 3
  }
]
```

```
},
{
  id: 2,
  name: 'Database Management',
  code: 'CS402',
  instructor: 'Dr. Johnson',
  status: 'active',
  progress: 60,
  credits: 4
},
{
  id: 3,
  name: 'Data Structures',
  code: 'CS201',
  instructor: 'Dr. Williams',
  status: 'completed',
  progress: 100,
  credits: 3
},
{
  id: 4,
  name: 'Operating Systems',
  code: 'CS403',
  instructor: 'Dr. Brown',
  status: 'active',
  progress: 45,
  credits: 4
},
{
  id: 5,
  name: 'Computer Networks',
  code: 'CS404',
  instructor: 'Dr. Davis',
  status: 'active',
```

```

        progress: 30,

        credits: 3
    },
    {
        id: 6,

        name: 'Software Engineering',

        code: 'CS505',

        instructor: 'Dr. Wilson',

        status: 'active',

        progress: 50,

        credits: 3
    }
];

// Initialize courses page
document.addEventListener('DOMContentLoaded', () => {
    renderCourses();
});

// Task 4: Render course cards dynamically
function renderCourses() {
    const courseGrid = document.getElementById('courseGrid');

    if (!courseGrid) return;

    // Clear existing content
    courseGrid.innerHTML = '';

    if (courses.length === 0) {
        courseGrid.innerHTML = '<p style="color: var(--text-light); grid-column: 1/-1;">No cou

        return;
    }

    // Loop through courses and create cards
    courses.forEach(course => {
        const courseCard = createCourseCard(course);

        courseGrid.appendChild(courseCard);
    });
}

// Create individual course card

```

```

function createCourseCard(course) {

  const card = document.createElement('div');

  card.className = 'course-card';

  // Determine status class and text

  const statusClass = course.status === 'active' ? 'active' : 'completed';

  const statusText = course.status === 'active' ? 'ACTIVE' : 'COMPLETED';

  card.innerHTML = `

    <div class="course-header">

      <h3>${course.name}</h3>

      <p>${course.code} • ${course.instructor}</p>

    </div>

    <div class="course-body">

      <div class="course-info">

        <span>Credits: ${course.credits}</span>

        <span class="course-status ${statusClass}">${statusText}</span>

      </div>

      <div class="course-progress">

        <div class="progress-bar">

          <div class="progress-fill" style="width: ${course.progress}%></div>

        </div>

        <p style="font-size: 0.875rem; color: var(--text-light); margin-top: 0.5rem;">

          Progress: ${course.progress}%

        </p>

      </div>

    </div>

  `;

  // Add hover effect for interactivity

  card.addEventListener('click', () => {

    if (window.showAlert) {

      window.showAlert(`Viewing details for ${course.name}`, 'info');

    }

  });

  return card;

}

```


File: js/assignments.js

```
/**
 * assignments.js - Assignments Module
 *
 * Task 5: Assignment Status Management
 * - Store assignment data in JavaScript
 * - Display assignments dynamically
 * - Change status text and color based on due date (static logic)
 * - Statuses: Pending, Submitted, Late
 *
 * Task 6: Assignment Submission Simulation
 * - On clicking "Submit Assignment":
 *   - Change status from Pending to Submitted
 *   - Disable submit button
 *   - Show confirmation message
 *
 * JavaScript Requirements:
 * - Event listeners
 * - Button state management
 * - Dynamic text updates
 * - Conditional statements
 * - Dynamic class assignment
 * - Date comparison (basic)
 *
 * Elements to interact with:
 * - #assignmentsList - container for assignment cards
 * - .submit-btn - submit buttons (dynamically created)
 * - #alertContainer - for showing notifications
 *
 * Task 9: Navigation Active State
 * Task 10: Alert & Notification System
 */
// Sample data structure for assignments
```

```
const assignments = [
  {
    id: 1,
    title: 'Web Development Project',
    course: 'CS301 - Web Development',
    dueDate: '2026-02-15',
    status: 'pending',
    description: 'Create a responsive website using HTML, CSS, and JavaScript'
  },
  {
    id: 2,
    title: 'Database Design Assignment',
    course: 'CS402 - Database Management',
    dueDate: '2026-02-18',
    status: 'pending',
    description: 'Design an ER diagram for a library management system'
  },
  {
    id: 3,
    title: 'Algorithm Analysis Report',
    course: 'CS505 - Software Engineering',
    dueDate: '2026-02-12',
    status: 'late',
    description: 'Analyze time complexity of sorting algorithms'
  },
  {
    id: 4,
    title: 'Network Protocol Implementation',
    course: 'CS404 - Computer Networks',
    dueDate: '2026-02-25',
    status: 'pending',
    description: 'Implement a simple TCP client-server application'
  },
  {
```



```

        id: 5,

        title: 'Operating System Concepts',

        course: 'CS403 - Operating Systems',

        dueDate: '2026-02-08',

        status: 'submitted',

        description: 'Write a report on process scheduling algorithms'
    }
};

// Initialize assignments page
document.addEventListener('DOMContentLoaded', () => {

    renderAssignments();

});

// Task 5 & 6: Render assignments dynamically
function renderAssignments() {

    const assignmentsList = document.getElementById('assignmentsList');

    if (!assignmentsList) return;

    // Clear existing content
    assignmentsList.innerHTML = '';

    if (assignments.length === 0) {

        assignmentsList.innerHTML = '&lt;p style="color: var(--text-light);"&gt;No assignments avail

        return;

    }

    // Loop through assignments and create cards
    assignments.forEach(assignment => {

        const assignmentCard = createAssignmentCard(assignment);

        assignmentsList.appendChild(assignmentCard);

    });

}

// Create individual assignment card
function createAssignmentCard(assignment) {

    const card = document.createElement('div');

    card.className = 'assignment-card';

    // Determine status based on due date and current status

    const dueDate = new Date(assignment.dueDate);

```

```

const today = new Date();

today.setHours(0, 0, 0, 0);

dueDate.setHours(0, 0, 0, 0);

let status = assignment.status;

let statusClass = status;

// If not submitted and past due date, mark as late

if (status === 'pending' && dueDate < today) {

    status = 'late';

    statusClass = 'late';

    card.classList.add('late');

} else if (status === 'submitted') {

    card.classList.add('submitted');

}

// Format due date

const options = { year: 'numeric', month: 'short', day: 'numeric' };

const formattedDate = dueDate.toLocaleDateString('en-US', options);

// Calculate days until due

const daysUntil = Math.ceil((dueDate - today) / (1000 * 60 * 60 * 24));

let dueDateText = '';

if (status === 'submitted') {

    dueDateText = 'Submitted';

} else if (daysUntil < 0) {

    dueDateText = `Overdue by ${Math.abs(daysUntil)} days`;

} else if (daysUntil === 0) {

    dueDateText = 'Due today!';

} else if (daysUntil === 1) {

    dueDateText = 'Due tomorrow';

} else {

    dueDateText = `Due in ${daysUntil} days`;

}

card.innerHTML = `

    <div class="assignment-details">

        <h3>${assignment.title}</h3>

        <div class="assignment-meta">

```

```

        <span class="assignment-course">${assignment.course}</span>

        <span class="assignment-due">■ ${formattedDate} • ${dueDateText}</span>

    </div>

    <p style="color: var(--text-light); font-size: 0.875rem; margin-top: 0.5rem;">${as
</div>

<div class="assignment-actions">

    <span class="assignment-status ${statusClass}">${status.toUpperCase()}</span>

    <button class="submit-btn" data-id="${assignment.id}" ${status !== 'pending' ? 'disab
        ${status === 'submitted' ? 'Submitted' : 'Submit'}

    </button>

</div>

`;

// Task 6: Add submit button event listener

const submitBtn = card.querySelector('.submit-btn');

if (submitBtn && status === 'pending') {

    submitBtn.addEventListener('click', () => handleSubmit(assignment.id, card, submitBtn));

}

return card;

}

// Task 6: Handle assignment submission

function handleSubmit(assignmentId, card, button) {

    // Find the assignment

    const assignment = assignments.find(a => a.id === assignmentId);

    if (!assignment) return;

    // Update assignment status

    assignment.status = 'submitted';

    // Update UI

    const statusBadge = card.querySelector('.assignment-status');

    statusBadge.textContent = 'SUBMITTED';

    statusBadge.className = 'assignment-status submitted';

    // Update button

    button.textContent = 'Submitted';

    button.disabled = true;

    // Update card styling

```

```
card.classList.remove('late');

card.classList.add('submitted');

// Show success message

if (window.showAlert) {

    window.showAlert(`${assignment.title} submitted successfully!`, 'success');

}

}
```

File: js/profile.js

```
/**
 * profile.js - Profile Management Module
 *
 * Task 7: Profile Page Edit Mode
 * Task 9: Navigation Active State
 * Task 10: Alert System
 */

// Get DOM elements

const profileForm = document.getElementById('profileForm');
const editButton = document.getElementById('editButton');
const saveButton = document.getElementById('saveButton');
const cancelButton = document.getElementById('cancelButton');
const profileName = document.getElementById('profileName');
const profileEmail = document.getElementById('profileEmail');
const profileAvatar = document.getElementById('profileAvatar');

// Form input fields

const fullNameInput = document.getElementById('fullName');
const emailInput = document.getElementById('email');
const studentIdInput = document.getElementById('studentId');
const departmentInput = document.getElementById('department');
const phoneInput = document.getElementById('phone');
const yearInput = document.getElementById('year');

// Store original values for cancel functionality

let originalValues = {};

// Initialize profile page

document.addEventListener('DOMContentLoaded', () => {

    loadUserProfile();

    initProfileButtons();

});

// Load user profile data

function loadUserProfile() {

    // Get stored username
```

```

const username = localStorage.getItem('username') || 'Student';

const email = localStorage.getItem('userEmail') || 'student@university.edu';

// Get user data from users array

const users = JSON.parse(localStorage.getItem('users')) || [];

const currentUser = users.find(user => user.username === username);

if (currentUser) {

    // Populate form fields with user data

    if (fullNameInput) fullNameInput.value = currentUser.fullName || currentUser.username;

    if (emailInput) emailInput.value = currentUser.email || email;

    if (studentIdInput) studentIdInput.value = currentUser.studentId || 'Not set';

    if (departmentInput) departmentInput.value = currentUser.department || 'Not set';

    if (phoneInput) phoneInput.value = currentUser.phone || '';

    if (yearInput) yearInput.value = currentUser.year || 'Not set';

} else {

    // Fallback values

    if (fullNameInput) fullNameInput.value = username;

    if (emailInput) emailInput.value = email;

    if (studentIdInput) studentIdInput.value = 'Not set';

    if (departmentInput) departmentInput.value = 'Not set';

    if (phoneInput) phoneInput.value = '';

    if (yearInput) yearInput.value = 'Not set';

}

// Update profile header

if (profileName) profileName.textContent = fullNameInput.value;

if (profileEmail) profileEmail.textContent = emailInput.value;

if (profileAvatar) profileAvatar.textContent = fullNameInput.value.charAt(0).toUpperCase();

// Store original values

storeOriginalValues();

}

// Store original form values

function storeOriginalValues() {

    originalValues = {

        fullName: fullNameInput.value,

        email: emailInput.value,

```

```

        studentId: studentIdInput.value,

        department: departmentInput.value,

        phone: phoneInput.value,

        year: yearInput.value

    };
}

// Initialize button event listeners

function initProfileButtons() {

    // Task 7: Edit button - Enable editing mode

    if (editButton) {

        editButton.addEventListener('click', () => {

            enableEditMode();

        });

    }

    // Save button - Save changes

    if (saveButton) {

        saveButton.addEventListener('click', (e) => {

            e.preventDefault();

            saveProfile();

        });

    }

    // Cancel button - Discard changes

    if (cancelButton) {

        cancelButton.addEventListener('click', () => {

            cancelEdit();

        });

    }

}

// Enable edit mode

function enableEditMode() {

    // Enable all input fields

    const inputs = [fullNameInput, emailInput, studentIdInput, departmentInput, phoneInput, yearInput];

    inputs.forEach(input => {

        if (input) input.disabled = false;
    });
}

```

```

});

// Show/hide buttons

if (editButton) editButton.style.display = 'none';

if (saveButton) saveButton.style.display = 'inline-block';

if (cancelButton) cancelButton.style.display = 'inline-block';

// Focus on first field

if (fullNameInput) fullNameInput.focus();
}

// Save profile changes

function saveProfile() {

    // Validate inputs

    if (!validateProfileInputs()) {

        return;

    }

    // Get current username

    const username = localStorage.getItem('username');

    // Get users array

    const users = JSON.parse(localStorage.getItem('users')) || [];

    // Find and update current user

    const userIndex = users.findIndex(user => user.username === username);

    if (userIndex !== -1) {

        // Update user object with new data

        users[userIndex].fullName = fullNameInput.value;

        users[userIndex].email = emailInput.value;

        users[userIndex].studentId = studentIdInput.value;

        users[userIndex].department = departmentInput.value;

        users[userIndex].phone = phoneInput.value;

        users[userIndex].year = yearInput.value;

        // Save updated users array

        localStorage.setItem('users', JSON.stringify(users));

        // Update session email if changed

        localStorage.setItem('userEmail', emailInput.value);

    }

    // Update profile header

```



```

    if (profileName) profileName.textContent = fullNameInput.value;

    if (profileEmail) profileEmail.textContent = emailInput.value;

    if (profileAvatar) profileAvatar.textContent = fullNameInput.value.charAt(0).toUpperCase();

    // Store new values

    storeOriginalValues();

    // Disable edit mode

    disableEditMode();

    // Show success message

    if (window.showAlert) {

        window.showAlert('Profile updated successfully!', 'success');

    }

}

// Cancel edit and restore original values

function cancelEdit() {

    // Restore original values

    fullNameInput.value = originalValues.fullName;

    emailInput.value = originalValues.email;

    studentIdInput.value = originalValues.studentId;

    departmentInput.value = originalValues.department;

    phoneInput.value = originalValues.phone;

    yearInput.value = originalValues.year;

    // Disable edit mode

    disableEditMode();

    // Show info message

    if (window.showAlert) {

        window.showAlert('Changes discarded', 'info', 2000);

    }

}

// Disable edit mode

function disableEditMode() {

    // Disable all input fields

    const inputs = [fullNameInput, emailInput, studentIdInput, departmentInput, phoneInput, yearInput];

    inputs.forEach(input => {

        if (input) input.disabled = true;

    });

}

```

```

});

// Show/hide buttons

if (editButton) editButton.style.display = 'inline-block';

if (saveButton) saveButton.style.display = 'none';

if (cancelButton) cancelButton.style.display = 'none';

}

// Validate profile inputs

function validateProfileInputs() {

    // Check full name

    if (!fullNameInput.value.trim()) {

        if (window.showAlert) {

            window.showAlert('Full name is required', 'error');

        }

        fullNameInput.focus();

        return false;

    }

    // Check email format

    const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

    if (!emailPattern.test(emailInput.value.trim())) {

        if (window.showAlert) {

            window.showAlert('Please enter a valid email address', 'error');

        }

        emailInput.focus();

        return false;

    }

    // Check phone format (basic)

    if (phoneInput.value && !/^[0-9]{10}$/.test(phoneInput.value)) {

        if (window.showAlert) {

            window.showAlert('Please enter a valid phone number', 'error');

        }

        phoneInput.focus();

        return false;

    }

    return true;
}

```


File: js/signup.js

```
/**
 * signup.js - User Registration Module
 *
 * Requirements:
 * - Validate all form fields
 * - Check if username/email already exists
 * - Ensure password and confirm password match
 * - Store user credentials in localStorage
 * - Redirect to login page after successful registration
 */

// Get DOM elements

const signupForm = document.getElementById('signupForm');

const signupUsername = document.getElementById('signupUsername');

const signupEmail = document.getElementById('signupEmail');

const signupPassword = document.getElementById('signupPassword');

const confirmPassword = document.getElementById('confirmPassword');

const signupUsernameError = document.getElementById('signupUsernameError');

const signupEmailError = document.getElementById('signupEmailError');

const signupPasswordError = document.getElementById('signupPasswordError');

const confirmPasswordError = document.getElementById('confirmPasswordError');

// Handle form submission

signupForm.addEventListener('submit', (e) => {

    e.preventDefault();

    const usernameValue = signupUsername.value.trim();

    const emailValue = signupEmail.value.trim();

    const passwordValue = signupPassword.value.trim();

    const confirmPasswordValue = confirmPassword.value.trim();

    let isValid = true;

    // Validate username

    if (usernameValue === '') {

        showError(signupUsernameError, signupUsername, 'Username is required');

        isValid = false;

    }

});
```

```

    } else if (usernameValue.length < 3) {

        showError(signupUsernameError, signupUsername, 'Username must be at least 3 characters');

        isValid = false;
    } else if (!/^[a-zA-Z0-9_]+$/.test(usernameValue)) {

        showError(signupUsernameError, signupUsername, 'Username can only contain letters, numbers,

        isValid = false;
    } else if (isUsernameTaken(usernameValue)) {

        showError(signupUsernameError, signupUsername, 'Username already exists');

        isValid = false;
    } else {

        hideError(signupUsernameError, signupUsername);
    }

    // Validate email

    const emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

    if (emailValue === '') {

        showError(signupEmailError, signupEmail, 'Email is required');

        isValid = false;
    } else if (!emailPattern.test(emailValue)) {

        showError(signupEmailError, signupEmail, 'Please enter a valid email address');

        isValid = false;
    } else if (isEmailTaken(emailValue)) {

        showError(signupEmailError, signupEmail, 'Email already registered');

        isValid = false;
    } else {

        hideError(signupEmailError, signupEmail);
    }

    // Validate password

    if (passwordValue === '') {

        showError(signupPasswordError, signupPassword, 'Password is required');

        isValid = false;
    } else {

        hideError(signupPasswordError, signupPassword);
    }

    // Validate confirm password

```

```

    if (confirmPasswordValue === '') {

        showError(confirmPasswordError, confirmPassword, 'Please confirm your password');

        isValid = false;
    } else if (confirmPasswordValue !== passwordValue) {

        showError(confirmPasswordError, confirmPassword, 'Passwords do not match');

        isValid = false;
    } else {

        hideError(confirmPasswordError, confirmPassword);
    }

    // If all validations pass, create account
    if (isValid) {

        createAccount(usernameValue, emailValue, passwordValue);
    }
});

// Clear errors on input
signupUsername.addEventListener('input', () => {

    if (signupUsername.value.trim() !== '') {

        hideError(signupUsernameError, signupUsername);
    }
});

signupEmail.addEventListener('input', () => {

    if (signupEmail.value.trim() !== '') {

        hideError(signupEmailError, signupEmail);
    }
});

signupPassword.addEventListener('input', () => {

    if (signupPassword.value.trim() !== '') {

        hideError(signupPasswordError, signupPassword);
    }
});

confirmPassword.addEventListener('input', () => {

    if (confirmPassword.value.trim() !== '') {

        hideError(confirmPasswordError, confirmPassword);
    }
}

```

```

});

// Helper function to show error

function showError(errorElement, inputElement, message) {

    errorElement.textContent = message;

    errorElement.classList.add('show');

    inputElement.style.borderColor = 'var(--danger-color)';

}

// Helper function to hide error

function hideError(errorElement, inputElement) {

    errorElement.classList.remove('show');

    inputElement.style.borderColor = 'var(--border-color)';

}

// Check if username already exists

function isUsernameTaken(username) {

    const users = JSON.parse(localStorage.getItem('users')) || [];

    return users.some(user => user.username.toLowerCase() === username.toLowerCase());

}

// Check if email already exists

function isEmailTaken(email) {

    const users = JSON.parse(localStorage.getItem('users')) || [];

    return users.some(user => user.email.toLowerCase() === email.toLowerCase());

}

// Create new account

function createAccount(username, email, password) {

    // Get existing users or initialize empty array

    const users = JSON.parse(localStorage.getItem('users')) || [];

    // Create new user object

    const newUser = {

        username: username,

        email: email,

        password: password, // Note: In real apps, never store plain text passwords!

        createdAt: new Date().toISOString()

    };

    // Add new user to array

```

```

    users.push(newUser);

    // Save to localStorage

    localStorage.setItem('users', JSON.stringify(users));

    // Show success message

    showSuccessAlert('Account created successfully! Redirecting to login...');

    // Redirect to login page after delay

    setTimeout(() => {

        window.location.href = 'index.html';

    }, 2000);
}

// Show success alert

function showSuccessAlert(message) {

    const alertContainer = document.getElementById('alertContainer');

    if (!alertContainer) return;

    const alert = document.createElement('div');

    alert.className = 'alert success';

    alert.innerHTML = `<span>✓ ${message}</span>`;

    alertContainer.appendChild(alert);

    setTimeout(() => {

        alert.remove();

    }, 2500);
}

```


File: js/theme.js

```
/**
 * theme.js - Theme Switcher & Sidebar Toggle Module
 *
 * Task 8: Theme Switcher (Light / Dark Mode)
 * Task 2: Sidebar Toggle (Responsive UI)
 */

// Initialize theme on page load

document.addEventListener('DOMContentLoaded', () => {

    initTheme();

    initSidebar();

    setActiveNavigation();

});

// Task 8: Theme Switcher

function initTheme() {

    const themeToggle = document.getElementById('themeToggle');

    if (!themeToggle) return;

    // Load saved theme from localStorage

    const savedTheme = localStorage.getItem('theme') || 'light';

    if (savedTheme === 'dark') {

        document.body.classList.add('dark-mode');

        themeToggle.textContent = '■';

    } else {

        themeToggle.textContent = '■';

    }

    // Toggle theme on button click

    themeToggle.addEventListener('click', () => {

        document.body.classList.toggle('dark-mode');

        const isDark = document.body.classList.contains('dark-mode');

        // Update button icon

        themeToggle.textContent = isDark ? '■' : '■';

        // Save theme preference

        localStorage.setItem('theme', isDark ? 'dark' : 'light');

    });

}
```

```

        // Show notification

        showAlert(isDark ? 'Dark mode enabled' : 'Light mode enabled', 'info', 1500);

    });
}

// Task 2: Sidebar Toggle

function initSidebar() {

    const menuToggle = document.getElementById('menuToggle');

    const sidebar = document.getElementById('sidebar');

    const overlay = document.getElementById('sidebarOverlay');

    if (!menuToggle || !sidebar) return;

    // Open/close sidebar on menu toggle

    menuToggle.addEventListener('click', () => {

        sidebar.classList.toggle('active');

        if (overlay) {

            overlay.classList.toggle('active');

        }

    });

    // Close sidebar when clicking overlay

    if (overlay) {

        overlay.addEventListener('click', () => {

            sidebar.classList.remove('active');

            overlay.classList.remove('active');

        });

    }

    // Close sidebar when clicking a nav link (mobile)

    const navLinks = document.querySelectorAll('.nav-link');

    navLinks.forEach(link => {

        link.addEventListener('click', () => {

            if (window.innerWidth <= 768) {

                sidebar.classList.remove('active');

                if (overlay) {

                    overlay.classList.remove('active');

                }

            }

        });

    });
}

```

```

        });
    });
}

// Task 9: Set active navigation based on current page

function setActiveNavigation() {

    const navLinks = document.querySelectorAll('.nav-link');

    const currentPage = window.location.pathname.split('/').pop() || 'index.html';

    navLinks.forEach(link => {

        link.classList.remove('active');

        const href = link.getAttribute('href');

        if (href === currentPage) {

            link.classList.add('active');

        }

    });

}

// Task 10: Alert notification system

function showAlert(message, type = 'info', duration = 3000) {

    const alertContainer = document.getElementById('alertContainer');

    if (!alertContainer) return;

    const alert = document.createElement('div');

    alert.className = `alert ${type}`;

    const icon = type === 'success' ? '✓' : type === 'error' ? '✗' : '■';

    alert.innerHTML = `<span>${icon}</span> ${message}</span>`;

    alertContainer.appendChild(alert);

    // Auto-hide after duration

    setTimeout(() => {

        alert.style.opacity = '0';

        alert.style.transform = 'translateX(100%)';

        setTimeout(() => {

            alert.remove();

        }, 300);

    }, duration);

}

// Export for use in other modules

```

```
if (typeof window !== 'undefined') {  
    window.showAlert = showAlert;  
}
```

File: js/utils.js

```
/**
 * utils.js - Utility Helper Functions
 *
 * Common functions that can be used across multiple modules
 * Include this file in your HTML if you want to use these utilities
 */
/**
 * Show alert notification
 * @param {string} message - The message to display
 * @param {string} type - Alert type: 'success', 'error', 'info'
 * @param {number} duration - Duration in milliseconds (default: 3000)
 */
function showAlert(message, type = 'info', duration = 3000) {
    const alertContainer = document.getElementById('alertContainer');

    if (!alertContainer) return;

    const alert = document.createElement('div');

    alert.className = `alert ${type}`;

    alert.innerHTML = `
        <span>${message}</span>
    `;

    alertContainer.appendChild(alert);

    // Auto-hide after duration
    setTimeout(() => {
        alert.style.opacity = '0';

        setTimeout(() => {
            alert.remove();
        }, 300);
    }, duration);
}
/**
 * Format date to readable string
 * @param {string} dateString - Date in YYYY-MM-DD format
```

```

    * @returns {string} Formatted date
    */

function formatDate(dateString) {

    const date = new Date(dateString);

    const options = { year: 'numeric', month: 'short', day: 'numeric' };

    return date.toLocaleDateString('en-US', options);
}

/**
 * Check if date is past due
 *
 * @param {string} dueDate - Due date in YYYY-MM-DD format
 *
 * @returns {boolean}
 */

function isPastDue(dueDate) {

    const today = new Date();

    const due = new Date(dueDate);

    today.setHours(0, 0, 0, 0);

    due.setHours(0, 0, 0, 0);

    return due < today;
}

/**
 * Get days until due date
 *
 * @param {string} dueDate - Due date in YYYY-MM-DD format
 *
 * @returns {number} Number of days
 */

function getDaysUntilDue(dueDate) {

    const today = new Date();

    const due = new Date(dueDate);

    today.setHours(0, 0, 0, 0);

    due.setHours(0, 0, 0, 0);

    const diff = due - today;

    return Math.ceil(diff / (1000 * 60 * 60 * 24));
}

/**
 * Set active navigation link based on current page

```

```

* @param {string} currentPage - Current page name (e.g., 'dashboard')
*/

function setActiveNav(currentPage) {

    const navLinks = document.querySelectorAll('.nav-link');

    navLinks.forEach(link => {

        link.classList.remove('active');

        if (link.dataset.page === currentPage) {

            link.classList.add('active');

        }

    });

}

/**
 * Get stored username from localStorage
 * @returns {string} Username or 'Student'
 */

function getStoredUsername() {

    return localStorage.getItem('username') || 'Student';

}

/**
 * Store username in localStorage
 * @param {string} username
 */

function storeUsername(username) {

    localStorage.setItem('username', username);

}

/**
 * Toggle sidebar for mobile view
 */

function toggleSidebar() {

    const sidebar = document.getElementById('sidebar');

    const overlay = document.getElementById('sidebarOverlay');

    if (sidebar && overlay) {

        sidebar.classList.toggle('active');

        overlay.classList.toggle('active');

    }

}

```

```

    }
}

/**
 * Initialize sidebar toggle functionality
 */

function initSidebarToggle() {

    const menuToggle = document.getElementById('menuToggle');

    const overlay = document.getElementById('sidebarOverlay');

    if (menuToggle) {

        menuToggle.addEventListener('click', toggleSidebar);

    }

    if (overlay) {

        overlay.addEventListener('click', toggleSidebar);

    }

}

/**
 * Initialize theme toggle functionality
 */

function initThemeToggle() {

    const themeToggle = document.getElementById('themeToggle');

    if (!themeToggle) return;

    // Load saved theme

    const savedTheme = localStorage.getItem('theme');

    if (savedTheme === 'dark') {

        document.body.classList.add('dark-mode');

        themeToggle.textContent = '■';

    }

    // Toggle theme on click

    themeToggle.addEventListener('click', () => {

        document.body.classList.toggle('dark-mode');

        const isDark = document.body.classList.contains('dark-mode');

        themeToggle.textContent = isDark ? '■■' : '■';

        localStorage.setItem('theme', isDark ? 'dark' : 'light');

    });
}

```



```
}

// Export functions for use in modules (optional - for organization)

// If using modules, uncomment these:

// export { showAlert, formatDate, isPastDue, getDaysUntilDue, setActiveNav, getStoredUsername, stor
```

5. Configuration Files

File: netlify.toml

```
[build]

  publish = "."

[[redirects]]

  from = "/*"

  to = "/index.html"

  status = 200
```