Phase 2

PhaseEnd Project 1 Writeup

**ASP.NET MVC Ecommerce Site to Sell Laptops:**

If you want to create an Ecommerce website to sell laptops using ASP.NET MVC, here's a general outline of the requirements:

**System Overview:**

1. **Frontend:**
   * Create a user-friendly and responsive frontend using ASP.NET MVC.
   * Implement product listings with details like laptop models, prices, specifications, and images.
   * Allow users to search for laptops, filter them by various criteria (e.g., price range, brand), and view individual product pages.
   * Implement a shopping cart to add/remove items.
   * Enable users to proceed to checkout, enter shipping information, and make payments.
   * Implement user authentication and authorization for customer accounts.
   * Provide an admin panel to manage products, categories, and orders.
2. **Backend:**
   * Set up a database using MS-SQL Server to store product information, user data, and order details.
   * Implement server-side logic to handle user authentication, authorization, and session management.
   * Develop APIs to handle product listing, searching, cart management, and order processing.
   * Secure sensitive data and transactions using encryption techniques.
3. **Payment Integration:**
   * Integrate a payment gateway (e.g., PayPal, Stripe) for processing payments securely.
   * Implement order confirmation and email notifications to customers.
4. **Security:**
   * Implement security best practices to protect against common web vulnerabilities (e.g., SQL injection, cross-site scripting).
   * Regularly update and patch the application to protect against emerging threats.
5. **Testing:**
   * Conduct thorough testing of the application to ensure functionality, security, and performance.
6. **Deployment:**
   * Deploy the application to a web server or cloud platform (e.g., Azure, AWS).
   * Configure domain and SSL certificates for secure access.

**Employee Management System (EMS) for Simplona Tech. Solutions:**

If you indeed want to create an EMS for Simplona Tech. Solutions, here are the requirements:

**System Overview:**

1. **Frontend:**
   * Develop a user interface to manage employee profiles.
   * Allow HR or authorized users to add, edit, and delete employee information.
   * Implement user authentication and authorization for different roles (HR, managers, employees).
2. **Backend:**
   * Create a database using MS-SQL Server to store employee data, including personal details, job information, and contact information.
   * Implement server-side logic for CRUD (Create, Read, Update, Delete) operations on employee records.
   * Design and implement APIs for interacting with the employee database.
   * Implement user authentication and authorization to control access to employee data.
3. **Security:**
   * Implement security measures to protect employee data and ensure that only authorized users can access sensitive information.
   * Encrypt sensitive data, such as Social Security numbers and salary information.
4. **Reporting:**
   * Provide reporting features to generate reports on employee data, such as payroll reports, attendance reports, and performance reviews.
5. **Testing:**
   * Thoroughly test the application to ensure data accuracy, security, and usability.
6. **Deployment:**
   * Deploy the EMS application to a secure server or cloud platform.
   * Set up access control and authentication mechanisms.

GitHub Link: