Writeup: Laptop Ecommerce

"Digital Retailers Inc." e-commerce platform was developed using ASP.NET, utilizing Models, Controllers, Views, Database Migrations, Individual User Account Authentication, and a dedicated Cart Service, all supported by Microsoft SQL Server for authentication and product model information.

Models:

Models encapsulated core data structures, including ProductModel and CartModel. ProductModel defined product attributes, while CartModel held cart-related data. These models facilitated interaction with the SQL Server database through Entity Framework.

Controllers:

Controllers managed application logic, including product actions and cart functionalities. The ProductsController handled product details and cart updates, while the CartController oversaw cart operations.

Views:

Views were crafted using HTML, Razor syntax, and Bootstrap, providing an intuitive and visually appealing user interface. Razor views seamlessly combined C# code with HTML to enhance interactivity. The different views created were details.cshtml and cart.cshtml including the index.cshtml

Database Migrations:

Entity Framework Migrations were employed to version and apply database schema changes, ensuring efficient database management and synchronization with model structures. Microsoft SQL Server served as the database, handling user authentication and storing product information.

Individual User Account Authentication:

The project integrated Microsoft SQL Server for individual user account authentication, enabling secure access and personalized experiences for users. Users could create accounts, log in, and manage their profiles, enhancing the platform's security and user management.

Cart Model and Cart Service:

The cart model and operations were managed through a dedicated CartService, enhancing the overall shopping experience. The service handled cart functionalities like adding items and managing quantities, providing a seamless shopping experience.

Incorporating these components and utilizing Microsoft SQL Server for secure authentication and efficient data management, "Digital Retailers Inc." successfully delivered a technically robust e-commerce platform. The platform ensured secure transactions, efficient cart management, and a seamless shopping experience for users.