**TechShop System Deployment & Integration**

**1. Technology Stack**

The TechShop e-commerce platform utilizes a modern technology stack for optimal performance, security, and scalability.

• Backend: ASP.NET Core (C#) for business logic and API services.

• Frontend: Html , CSS , Javascript , Bootstrap

• Database: SQL Server for structured and efficient data storage.

• Hosting: Azure or AWS for cloud-based deployment and scalability.

• Authentication: JWT-based authentication and OAuth for third-party login.

• Payment Integration: Stripe, PayPal, and other secure gateways.

**2. Deployment Diagram**

The deployment diagram below illustrates how TechShop components are distributed across different hardware nodes.

**3. Component Diagram**

The component diagram below illustrates the high-level system components and their dependencies.