ICT712/MITS5502

Developing Enterprise applications

Part: A

Project title: ThriftTech – A Business-to-Consumer (B2C)

Online Store for Technology Products

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1. Introduction

The proposed project aims to build the enterprise-grade online shopping system ThriftTech. The Business-to-Consumer (B2C) e-commerce store ThriftTech offers both new and refurbished technology products which include smartphones, laptops, desktop PCs and accessories. The development aims to establish a dependable user-oriented secure system which delivers straightforward management solutions for products and orders.

2. Objective

The main purpose of this work is to build a functional e-commerce web application through the implementation of J2EE specifications along with MVC architecture. A real-life e-commerce simulation will appear through the ThriftTech store because it provides numerous security features with easy administration access along with practical navigation systems and quick order handling.

3. Project Scope

Three principal sections are included in the project scope and organizational structure.

- A web-based online store will develop to sell technology products.
- The platform will enable administrators to handle product management through features that permit product addition editing and deletion.
- Implementation of user registration, authentication, and profile management.
- Implementation of a shopping cart system for customers.
- The system incorporates a mechanism which enables product search functions with filtering capabilities.
- Checkout process with order summary and simulated payment confirmation.
- Session handling and transaction management for consistent user experiences.

4. Project Environment

The ThriftTech B2C platform requires development through particular technologies including:

Component	Specification
Integrated Development Environment (IDE)	NetBeans 8.2 or higher
Programming Language	Java (J2EE)
Database Server	MySQL
System Architecture	Model-View-Controller (MVC)
Frameworks & Libraries	Hibernate, Enterprise Java Beans (EJB), JSP, Servlet API

All project elements need to comply with required specifications which follow the course guidance standards.

5. Expected Outcomes

The ThriftTech store will achieve complete success with these specified outcomes after project completion.

- The eCommerce system will feature a complete platform to sell technology products.
- The system should provide complete security for user account setup together with authentication functions and active session monitoring features.
- Customers must have access to a full shopping cart option together with checkout processes leading to order confirmation.
- Platform administrators should have complete capabilities to manage product inventory together with listing management functions.
- The development will produce a solid e-commerce system that demonstrates enterprise-level practice while being expandable and easy to support.

6. Conclusion

The project combines theoretical knowledge of enterprise systems with practical implementation which utilizes Java, MySQL and NetBeans as a framework. Students can develop their enterprise web application development competencies while working through real-life situations at ThriftTech.