**Design of an E-commerce Web Application**

**IS 6250**

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**IS 6250 Project**

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**ABSTRACT:**

E-commerce provides customers with the convenience to buy the products they need instantly from the convenience of their offices, homes and anywhere, provided they can access a computer connected to the Internet. Business competitive edge improves because they can trade on the global market place. It also gives businesses recurring revenues based on recommending products to customers, through goods previously brought by customers. This is what is called up selling and cross selling. However not all ecommerce solutions improve the experience customers wish to have while shopping online.  
Research shows that nearly 47% drop out when they get to the checkout due to various reasons. The main aim of this project is to develop a multiplatform online shopping system that is simple, easy to use and highly interactive. This project will cover all concepts that was taught in the IS 6250 course.

**DESCRIPTION:**

This project consists of multiple roles or actors. The actors are Customer, System Administrator, Warehouse Administrator and the Vendor. The functions of each actor are clearly defined. The functions of each actor are as follows:

1. Customer – Create profile, create an account, browse the catalog for items to purchase, place an order for an item/items.
2. System Administrator – Validate and approve the customer’s profile and account, update the catalog periodically by checking the warehouse, approve orders placed by customer, charge the customer’s credit card for the order by requesting a service from the credit card company and keeping updated with the warehouse status.
3. Credit Card Service – Validates and approves the customer’s transaction based on the information provided by the customer.
4. Warehouse Administrator – Updates the inventory, manages the warehouse and ships the order out of the warehouse.
5. Vendor – Sells products to the warehouse
6. Logistics – Updates the customer with the delivery details and delivers the order.

**TECHNICAL SPECIFICATION:**

FRAMEWORKS: Spring MVC, Hibernate

LANGUAGES: Java

TOOLS: Eclipse, MySQL, Git, Twitter Bootstrap, Argo UML

WEB TECHNOLOGIES: JSP, JavaScript, JQuery, CSS, AJAX