**INTE1070/1071 Secure Electronic Commerce Assignment 2**

Documentation

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Hosting Details

# Platform

The e-commerce website is hosted using the GoDaddy web hosting service which offers a Linux platform.

PHP was installed on the server with the selected version being 5.4. No PEAR packages were utilized. The MySQL extension mysqli was used to provide greater SQL security.

MySQL was installed to serve as the database system for the website. The version is 5.5.49. The website uses a single database accessed via one user.

# SSL

A SSL certificate signed by the GoDaddy certificate authority is used on the server on which the website is hosted providing encryption of all communications.

Site Construction Procedure

Blah blah blah

Security Features

# HTTPS deployment

Only using https minimizes man-in-the-middle attacks as communications between the client and server are encrypted.

# Server-side sanitization

All user input is passed though htmlspecialchars(). This removes html tags and other special entities preventing XSS attacks.

# Prepared statements

Eliminate SQL injection.

# Directory security

## Hidden directories

All asset directories are hidden using a index.php file which shows a 404 page. This is an example of security through obscurity.

## Forbidden directories

Directories used only by the server are disabled from the user via htaccess.

# Password security

## Strong passwords

Users are required to use strong passwords.

## Hashed passwords

Passwords are stored using modern hashes with salts and never in plain text format eliminating the risk of user passwords being made public in the event of network intrusion.

# reCAPCHA

Prevent bots from registering accounts and autonomous use of website.

# Hide error messages

error\_reporting(0)

Block Diagram