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## SECURDE

### Threat Model Document

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## I. Security Objectives

## II. Application Profile

This section is a profile of the Talaria Footwear Online Portal. This section is divided into four parts, the ERD Model, User Roles, the Class Diagram, and the Data Flow diagram

### ERD Model

Figure 1 shows the ERD of the Talaria Footwear online portal.

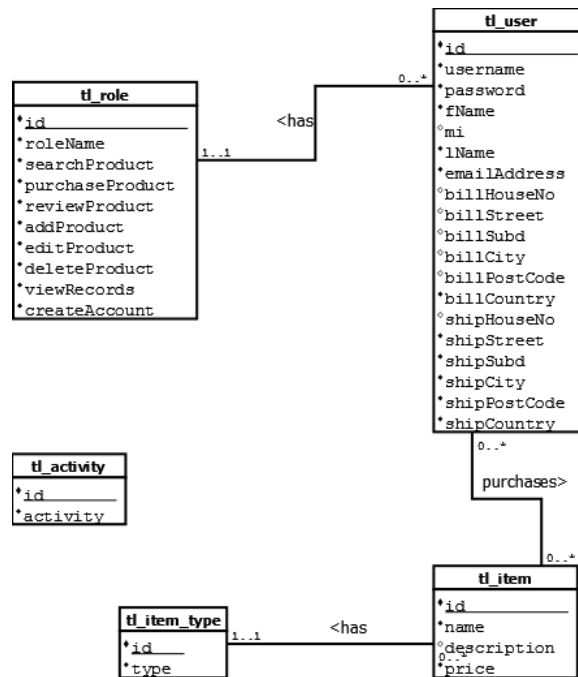
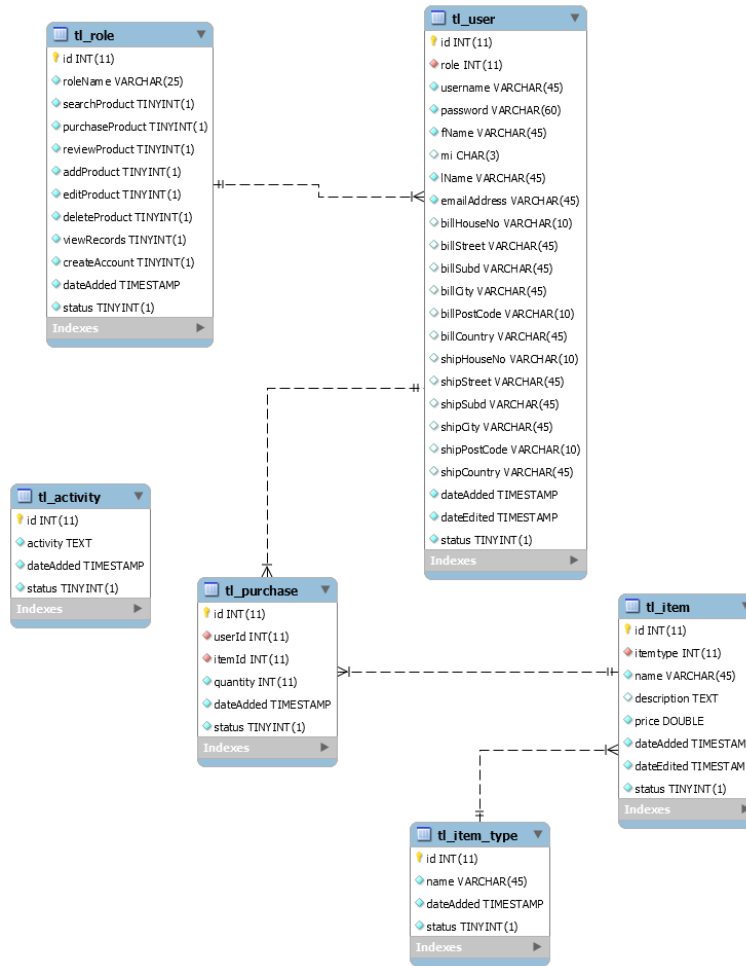


Figure 2.1. – Entity-Relationship Model of Talaria Footwear Online Portal

Users have a username, password, first name, middle initial, last name, email address, billing address (house no., street, subdivision, city, post code, country), and shipping address(house no., street, subdivision, city, post code, country).



**Figure 2.2. – Relational Model of Talaria Footwear Online Portal**

## User Roles

Role	Description of Tasks
Customer	<ul style="list-style-type: none"> <li>Search product</li> <li>Purchase Product</li> <li>Review product (that they have purchased)</li> </ul>
Product Manager	<ul style="list-style-type: none"> <li>Add Product</li> <li>Edit Product</li> <li>Delete Product</li> </ul>
Financial Manager	<ul style="list-style-type: none"> <li>View purchase records: total sales, sales per product type, or sales per product.</li> </ul>
Admin	<ul style="list-style-type: none"> <li>Create product manager or financial manager account</li> </ul>

### III. Threat Documentation

This chapter is divided into two parts: the threat list documents each threat in detail; the DREAD Model prioritizes each threat by using the Pxl scoring method.

#### A. Threat List

##### **Bypass Authorization in**

- Review Product
- Add Product
- Edit Product
- Delete Product
- View Records
- Create Special Account

STRIDE Classification: Elevation of Privilege

##### **DoS Attack in**

- Register Page
- Login Page

STRIDE Classification: Denial of Service

##### **Faulty Password Timeout**

STRIDE Classification: Spoofing

##### **Lack of Verbosity in Audit Logs**

STRIDE Classification: Repudiation

##### **Lack of Password Complexity**

STRIDE Classification: Spoofing

##### **Login Bypass**

STRIDE Classification: Elevation of Privilege

##### **Session Hijacking**

STRIDE Classification: Spoofing

## SQL Injection in

- Login Page
- Search Page
- Purchase Product URL
- Register Page
- Add Product Page
- Edit Product Page
- Delete Product Page
- Create Special Account

STRIDE Classification: Tampering of Data, Information Disclosure

## XSS Attack in

- Login Page
- Search Page
- Register Page
- Add Product Page
- Edit Product Page
- Delete Product Page
- Create Special Account

STRIDE Classification:

## B. DREAD Model

Threat	D	R	E	A	DI	P	I	P x I
Bypass Authorization								
DoS Attack								
Faulty Password Timeout								
Lack of Verbosity in Audit Logs								
Lack of Password Complexity								
Login Bypass								
Session Hijacking								
SQL Injection								
XSS Attack								