itstotallylegalnow.com

Cannabis Sales Website
Project Design

Computer Science 304 Introduction to Databases
University of British Columbia Okanagan
Dr. Ramon Lawrence
Fall 2018

Project Team:

Greg, Mark, Aaron, Tasha

Table of Contents

Introduction

As of October 17th, 2018, the sale of cannabis products is legal in Canada. Online cannabis sales however, are crippled through the government's online implementation which only allows for select products and limited order amounts. itstotallylegalnow.com gives its resellers (previously known as "dealers"), access to cannabis products not currently sold on the government cannabis online or brick and mortar stores with no limits to how much product is ordered.

Mission statement

To build and implement an online cannabis distribution platform, giving dealers an easy and discrete method of purchasing wholesale cannabis products while providing an easy to manage view for administration and order processing.

Executive Summary

itstotallylegalnow.com requires dealers to be registered with the website before they can browse the product listings. If a guest browses to the webpage, they can fill out a form and request access. They will need to provide their email address (username), name, shipping address and a password for the account. They will only be able to log in after the request has been verified by an administrator.

After logging in, dealers will be able to browse the product listings or view the status of their previous orders. While browsing products, they will be able to search by categories (for example, oils or dried flower). Each product is categorized by type and has a name, image, description, a price per unit, and a weight which is optional depending on the product type.

Dealers can select products and order amounts and add them to their shopping cart. Once satisfied with their orders, users can checkout and pay for the order with either an e-transfer or bitcoin. After an order has been placed, it will show up in the dealer's order history page and the order status will be "processing payment". After the administrator has confirmed the payment is received, they will mark the order and it will move into "payment received". Finally, once the order has been shipped the administrator will mark the order as shipped and provide a tracking number.

Functionality/System Features

Final Overall System Features	Points	% Complete	Code Files
Main Page			
Running on custom web server	5	100%	
Search for a product by name	2	100%	listprod.php
Browse products by category	2	100%	listprod.php
List products (by search/browse)	2	100%	listprod.php
List products with image	2	100%	listprod.php
Page header with menu	1	100%	navigation.php
Page header shows current logged in user	1	100%	navigation.php
Dynamic product on page based on sales	2		
Product recommendation based on user	4		
Order History			
Page listing all orders for user	2	100%	listorder.php
Shopping Cart			
Add to shopping cart	2	100%	addcart.php
View shopping cart	2	100%	showcart.php
Update item quantity in shopping cart	1	100%	showcart.php
Remove item from shopping cart	1	100%	showcart.php
Shopping cart data validation on updates	1	100%	showcart.php
Improved formatting/UI (e.g. in header bar)	1	100%	Head-tag.php / navigation.php

Cart stored in database between sessions	3		
Checkout			
Checkout with customer id	2	100%	order.php
Checkout with payment/shipment info	2	50%	order.php
Checkout with data validation	2	100%	order.php
Inventory tracking per item	1	50%	order.php
Inventory tracking by store/warehouse	2	50%	order.php
Multiple shipments per order supported	3		
Calculate taxes and shipping cost	2		
Product Detail Page			
Product detail page and item description	2	100%	pdesc.php (click product name on product list)
Product detail has an image	1	100%	pdesc.php
Product detail has an image from database	3		
User Accounts and Login			
Create user account page	2	100%	/admin/adduser.php (add user in admin page)
Create user account with data validation	2	100%	Create user check if an email or cid is already in the database
Improved formatting/UI for create account page	2		
Login/logout	2	100%	Index.php and top right of every page
Register user/Forgot password email	4		

Product Reviews			
Ability to enter a review on a product	2		
Display product review on product detail	1		
Restrict to one review per user on item purchased	2		
Administrator Portal			
Secured by login	1	100%	
List all customers	1	100%	manageuser.php
List report showing total sales/orders	1	100%	manageorder.php
Report with a graph	2		
Add new product	2	100%	/admin/addprod.php
Update/delete product	2	100%	/admin/listprod.php
Change order status/ship order	1		
Upload a photo to file system for product	2		
OR: Upload a photo to database for product	4		
Database restore with SQL script	2	100%	LoadData.php
Add/update warehouse, customer	2		
Database System/General			
Implement some data validation using triggers	2		
Use AJAX for some pages	4		
User interface and navigation/usability	Up to 5	100%	navigation.php

Other (add rows)			

User Walkthrough

1. Please Navigate to http://itstotallylegalnow.com/ and use the credentials email: admin@itln.com and password: password1 to login.

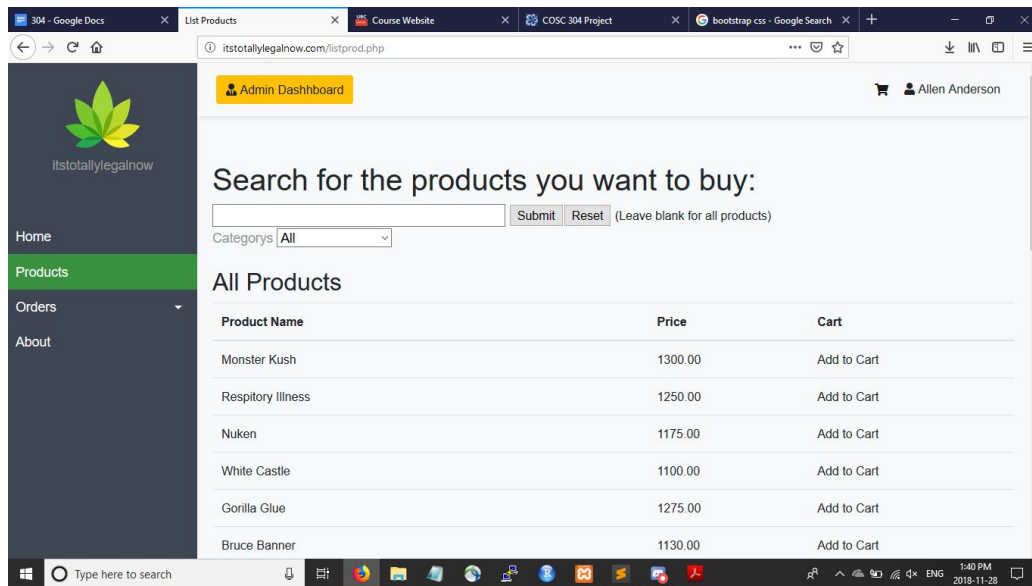The website is hosted on an apache web server and the DBMS is MySQL.

<u>Note</u>: We are logging in to an admin account
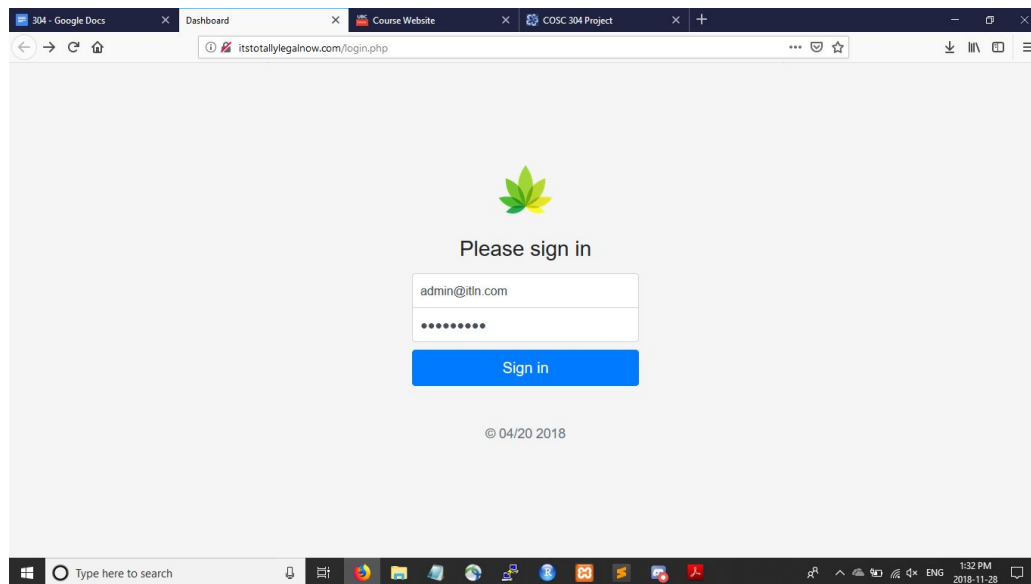
2. Now that you've logged in, click on the "Begin Shopping" button to get going!
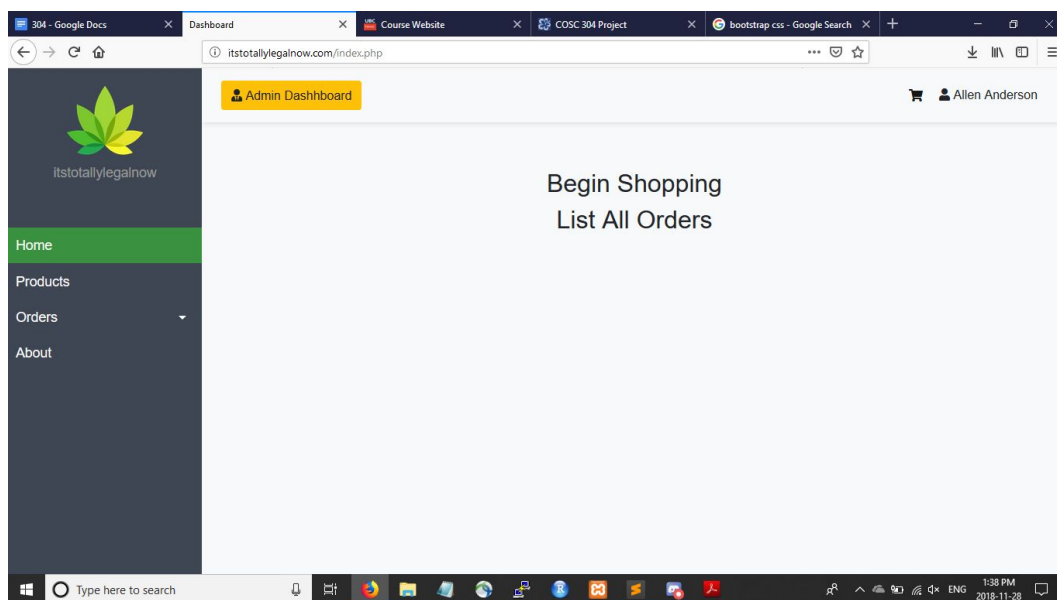
3. Now, we see the list of wholesale products we carry. Today we're looking for some "Nuken" dried flower. The list looks big, lets narrow down our search.

4. Use the category drop down menu to select "dried flower", then go to the search bar and type "Nuken", then press submit. Since we've found the product we're looking for. Press the "Add to Cart" button.
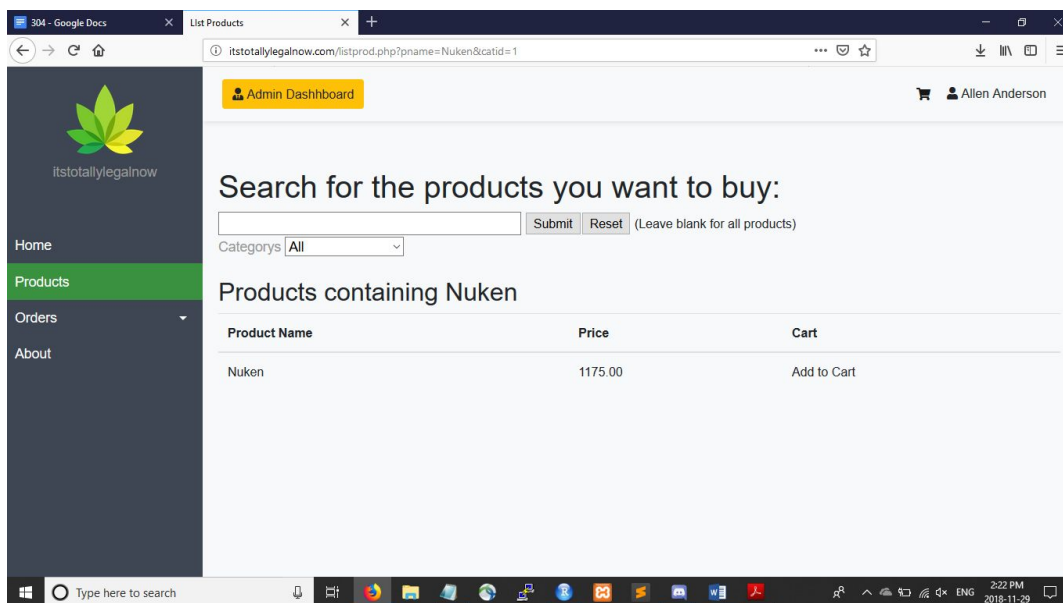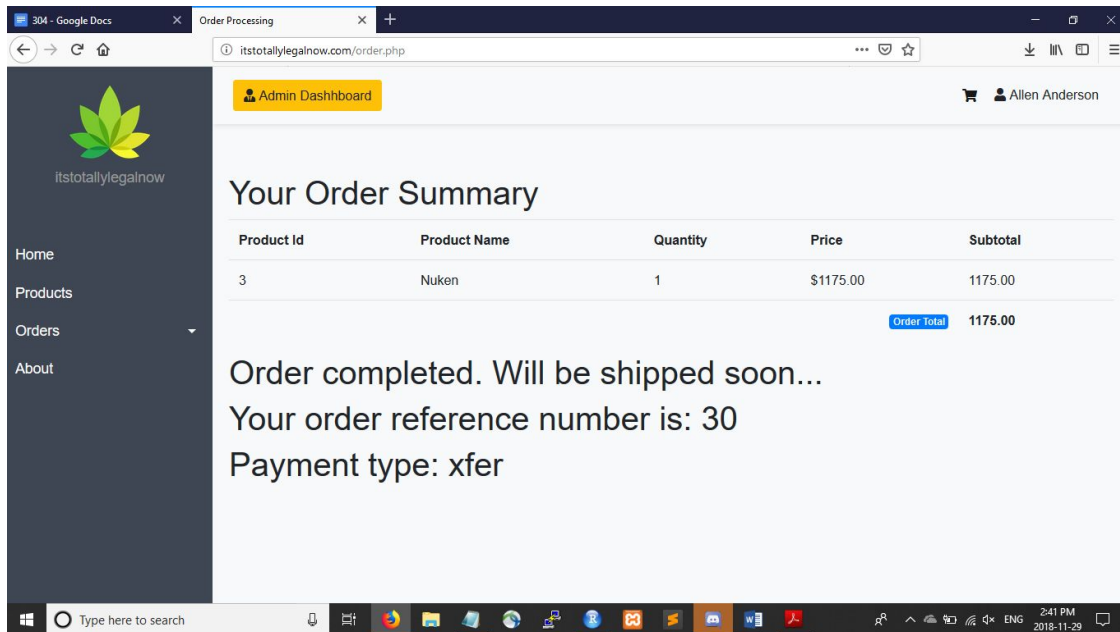
5. When we add an item to our cart, we are redirected to our cart page. Here, we can update the quantity of the item we would like to purchase, remove items from our cart, and add other items by using the "Continue Shopping" function. We're already spending a lot of money though, so let's choose the "Check Out" option.
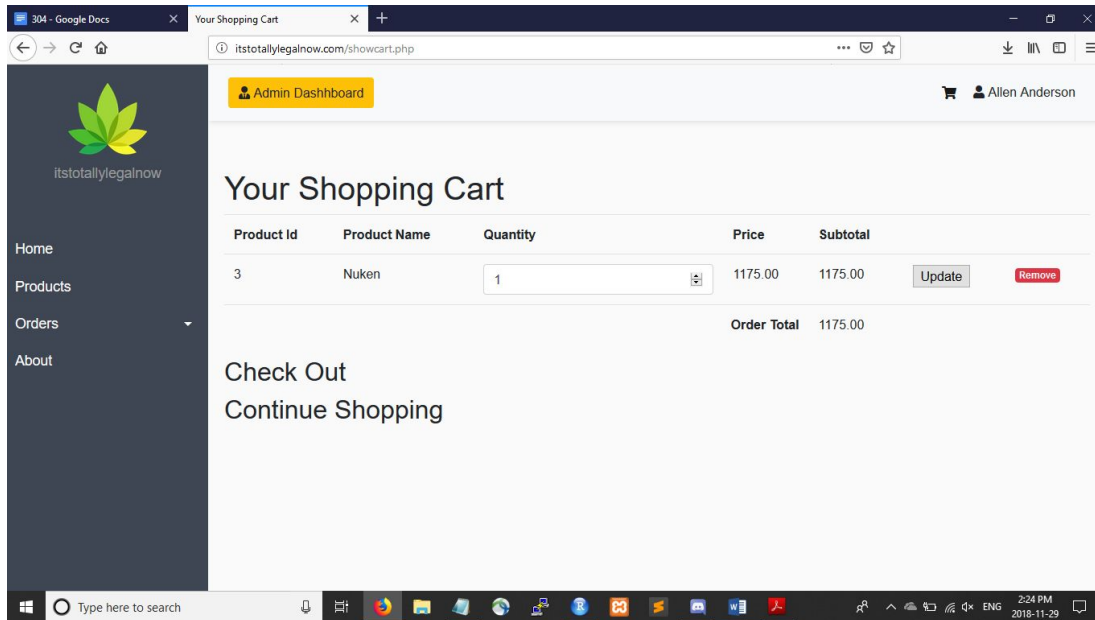
6. Since we don't (yet) have a license from the Government of Canada, we only accept e-transfers or bitcoin. Select the payment method of your choice and press "Continue to Checkout".
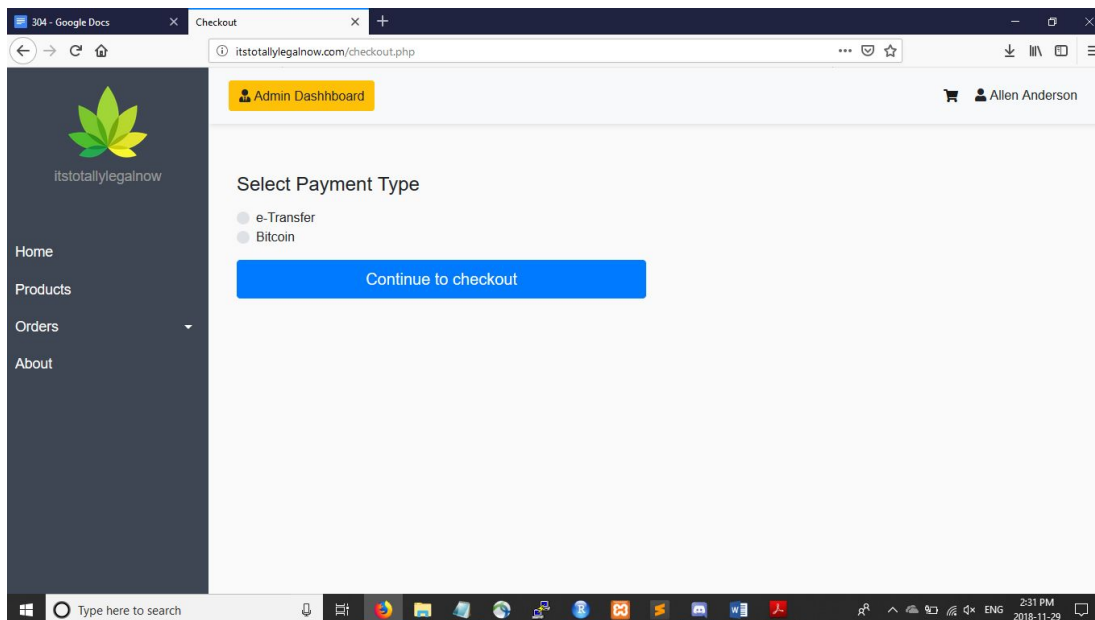
7. Awesome! You've completed your first order. Let's navigate to the "Orders" drop down menu on the left side of the page and select the "Open Orders" option to check on your current order via reference number.
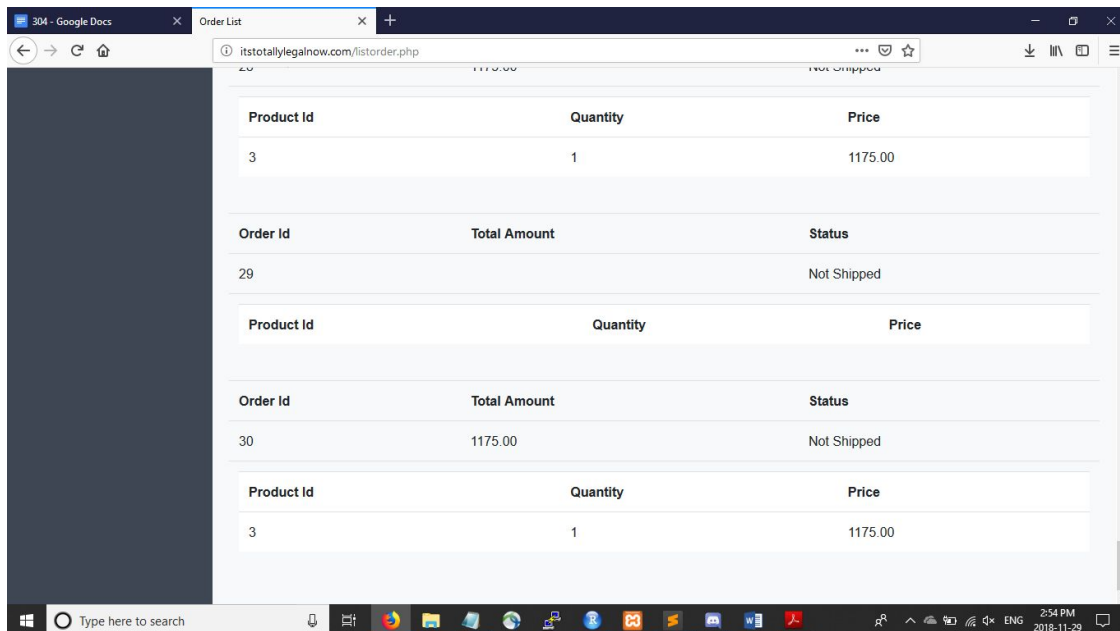
8. This page allows you to check on your current order, past orders, whether the order has been shipped or not, and a brief description of the order.

9. Let's take a look at the privileges you'll have as an administrator. Click on the "Admin Dashboard" button at the top of the page.
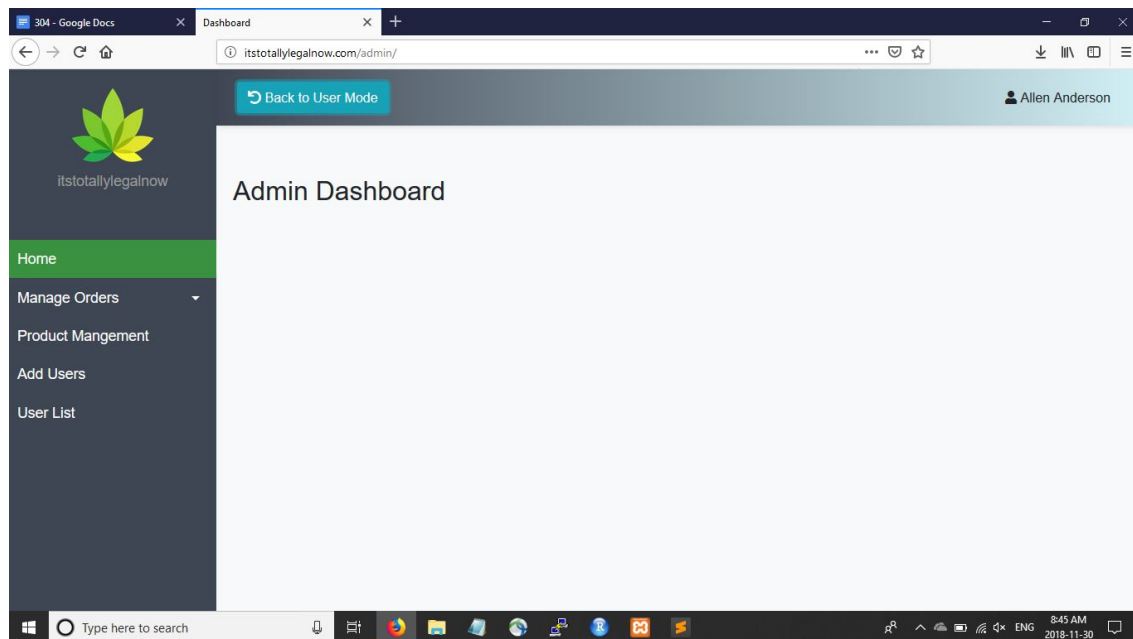
10. In the Admin Dashboard we can perform the various functions you'd expect from an administrator, such as product management, user management, and more. Lastly, press the "Back to User Mode" button to return to the user dashboard page. You can log out by clicking on your username on the top right corner of the page, or continue exploring!
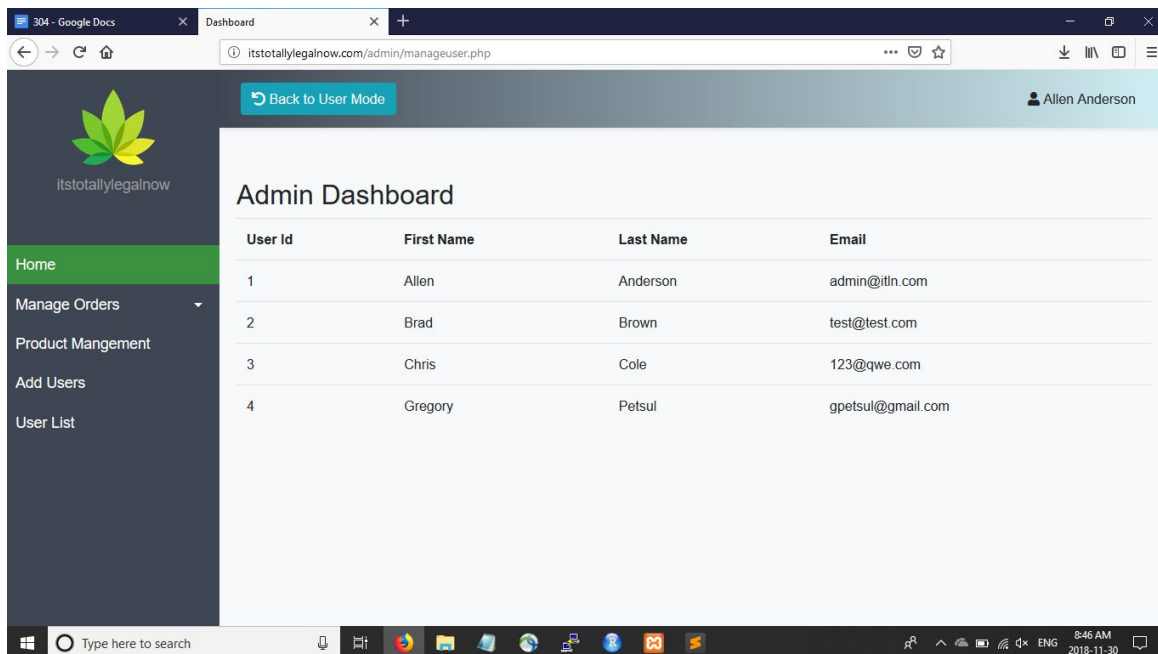
Domain Assumptions

<u>User:</u>

Each user account is designated as a dealer account or administrator account. A dealer account can be changed to an administrative account and an administrative account can be changed to a dealer account.

1. A dealer account will store a users' unique ID, an email and password (login credentials), the users' first and last name, the users' shipping address, a Bitcoin wallet ID, a user cart, an order, and whether the user has administrative privileges.
2. An administrator account stores the same information as a dealer's account but has administrative privileges such as selling products, manipulating inventory, and user request verification.

<u>Product:</u>

From a list of cannabis related products available, the dealer (user) adds products and quantities to their cart, and after checkout these items are then shipped to the dealer. All products have a unique product ID, and there is a minimum of one product in every order. Furthermore, each products past sales are tracked.

<u>Shipment:</u>

Due to the strict laws surrounding the consumption of cannabis, if your address is outside of Canada a "Black Market" shipping fee will be applied, otherwise shipping is free. All shipments contain a tracking number and a unique shipment ID. A shipment can only be shipped to a single dealer.

<u>Order:</u>

Every order has a unique (incrementally produced) order ID, and all orders must be paid in full before shipment. If not all products in an order can be shipped, there will be multiple shipments of the order, however a shipment can only contain one order. Moreover, a user can have multiple orders.
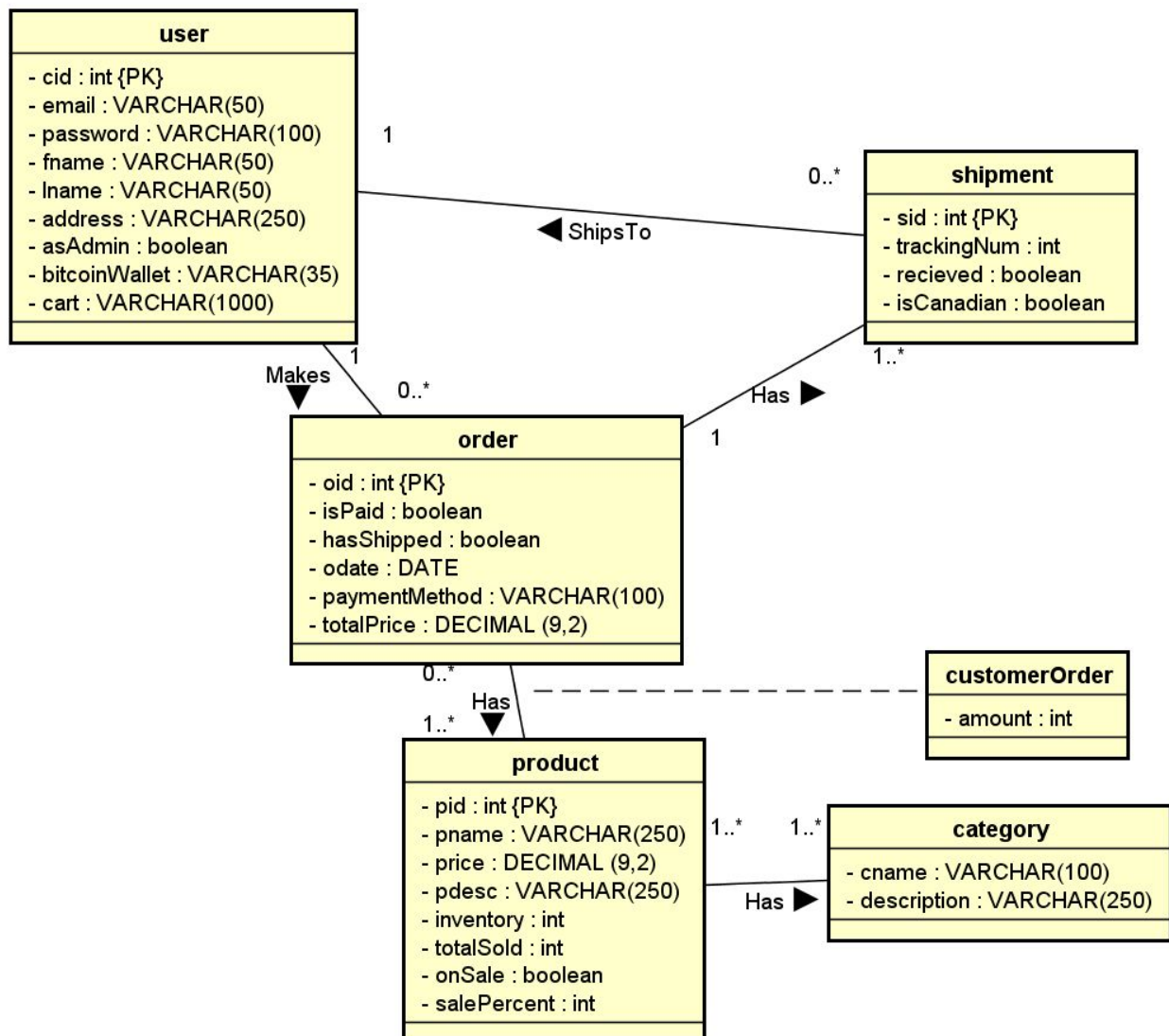
<u>Categories:</u>

All products are sorted into categories for user convenience. Every category has at least one product and every product has at least one category.

<u>Payment:</u>

Due to the nature of the products being sold, the only form of payment accepted is Bitcoin. A dealer may only have one Bitcoin wallet ID registered to their account at a time.

UML Diagram:

Relation Assumptions:

- <u>User:</u> A user can make make zero to many orders. A user may receive zero to many shipments.
- <u>Order:</u> An order can only have one user. An order has at least one product but can have many as well. An order must have at least 1 shipment but the order can be split up into many shipments.
- <u>Product:</u> A product can have zero to many orders. A product must have at least one category but may also have many categories.
- <u>Category:</u> A category must have at least one product but may have many products as well.
- <u>Shipment</u>**:** A shipment can only have one order. A shipment can only have 1 user.

Relational Schema:

CREATE TABLE Category (
  catid   int,
  cname   VARCHAR(100),
  description   VARCHAR(250),
  PRIMARY KEY (catid)
);

CREATE TABLE Product (
  pid   int NOT NULL,
  pname   varchar(50),
  pdesc   varchar(250),
  price   decimal(9,2),
  catid   int,
  inventory   int,
  totalSold   int,
  onSale   boolean,
  salePrice   decimal(9,2),
  PRIMARY KEY (pid),
  FOREIGN KEY (catid) REFERENCES Category(catid)
);

CREATE TABLE User (
  cid   int NOT NULL,

```
  email    VARCHAR(50) NOT NULL,
  password    VARCHAR(100) NOT NULL,
  fname    VARCHAR(50) NOT NULL,
  lname    VARCHAR(50) NOT NULL,
  street    VARCHAR(50),
  city    VARCHAR(20),
  province    VARCHAR(10),
  postalCode    VARCHAR(10),
  isAdmin    BOOLEAN,
  bitcoinWallet    VARCHAR(35),
  cart    VARCHAR(1000),
  PRIMARY KEY (cid)
);

CREATE TABLE Orders (
  oid            int    NOT NULL AUTO_INCREMENT,
  cid    int,
  totalAmount    decimal(9,2),
  odate    DATETIME,
  payMethod    VARCHAR(100),
  isPaid    BOOLEAN,
  PRIMARY KEY (oid),
  FOREIGN KEY (cid) REFERENCES User(cid)
);

CREATE TABLE Shipment (
  sid    int,
  oid    int,
  cid    int,
  trackingNum    VARCHAR(50),
  received    BOOLEAN,
  PRIMARY KEY (sid),
  FOREIGN KEY (oid) REFERENCES Orders(oid)
        ON DELETE CASCADE ON UPDATE CASCADE,
  FOREIGN KEY (cid) REFERENCES User(cid)
        ON DELETE CASCADE ON UPDATE CASCADE
);

CREATE TABLE OrderedProduct (
  oid    int    NOT NULL,
  pid    int    NOT NULL,
  quantity        int,
  price            decimal(9,2),
  PRIMARY KEY (oid, pid),
  FOREIGN KEY (oid) REFERENCES Orders(oid),
```
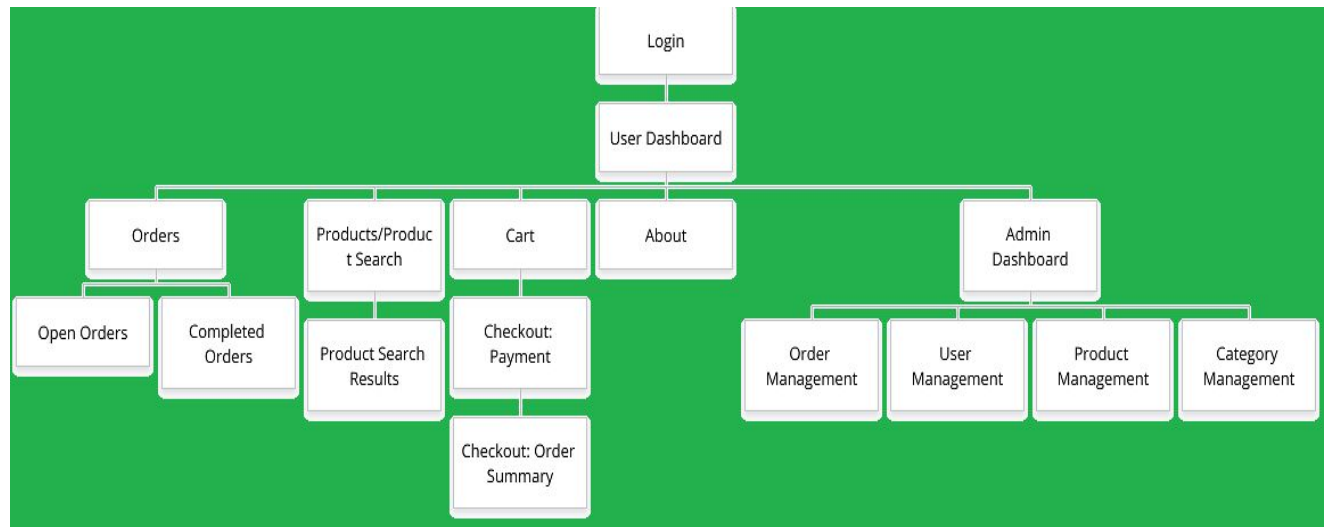
   FOREIGN KEY (pid) REFERENCES Product (pid)
);

Sitemap

Conclusion

     To summarize, itstotallylegalnow.com is the ultimate up and coming wholesale purchasing solution for the budding dealer. We offer a variety of top of the line marijuana products for Mexican street level prices. Moreover, we hope to soon be certified by the Government of Canada, so we can legally fulfill all of our duties as marijuana distribution kingpins.