Modern PerlCommerce

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Nitesi Shop Machine
Perl Buzzwords

- Marketing Perl
- Modern Perl
- Postmodern Perl
Modern Perl

- CPAN
- Best Practices
- Tests
- Separation (Modules, Plugins, Hooks, Templates)
- PSGI/Plack
PerlCommerce Choices

- Interchange
- Handel
- Agora
- Business::Cart::Generic
Past

- 1995 CGI
- 1995 MiniVend
- 1998 http://www.materialboerse.de/
- 2001 Interchange
Interchange Development

- Lot of things
- Small community
- Same codebase
Status quo
References

Future
Principles

- KISS
- Components
- Agnostic
- Expressive
Agnostic

Cart

- Session
- DBI
- Webservice *
Agnostic

Account Manager

- DBI
- LDAP *
- OpenID *
Agnostic

Templating Engine

- Template::Toolkit
- Template::Flute
Agnostic

Web framework

▶ Catalyst
▶ Mojo
▶ Dancer
Preferences

- Dancer
- Template::Flute
- DBI
Framework

- Dispatching requests
- Parameter parsing
- Session handling
- Template engine
- I18N
Extensions

- Bundles
- Plugins
- Hooks
Features

- Navigation
- Cart
- Checkout
- Accounts
Cart

- SKU, Name, Quantity, Price
- Price > 0
- Combines automatically
- Multiple carts
- Storage everywhere
- Price caching
use Dancer::Plugin::Nitesi;

cart->add(sku => 'POM253', name => 'Pomelo',
           price => 3.00, quantity => 10);

cart->remove(sku => 'POM253');

cart->count();

cart->clear();

cart->total();

cart->subtotal();
Everything is a Cart

- Saved Carts
- Wishlists
- Collections
Multiple Carts

```perl
cart('wishlist')-›add(sku => 'ORA322', name => 'Orange',
price => 2.00, quantity => 5);
```
Cart Backends

- Session
- DBI
Inventory Check

MinQuantityField  min_quantity
MaxQuantityField  inventory:quantity
hook 'before_cart_add' => sub {
    my ($cart, $item) = @_;  
    my ($inventory); 

    $inventory = query->select_field(table => 'products',
                                        field => 'inventory',
                                        where => {sku => $item->{sku}}); 

    if ($item->{quantity} > $inventory) {
        $item->{error} = 'Out of stock';
    }

    };}
Cart Hooks

- before_cart_add
- after_cart_add
Cart Hooks

- before_cart_remove
- after_cart_remove
Checkout

- Taxes
- Shipping
- Payment
- Invoice
Payment

- Business::OnlinePayment
Tax Modules on CPAN

- Business::Tax::Canada
- Business::CA::GST
- Business::Tax::VAT
- Business::Tax::VAT::Validation
Shipping

- Simple Shipping
- Crazy Shipping
- Shipping API
Costs

```perl
$cart->apply_cost(amount => 5);

$cart->apply_cost(amount => 0.19, relative => 1);
```
PDF Invoices

- HTML template
- Template::Flute::PDF
post '/login' => sub {
    if (account->login(username => params('body')->{username},
        password => params('body')->{password})) {
        redirect '/customerservice';
    } else {
        redirect '/login';
    }
};
get '/checkout' => sub {
    if (account->acl(check => 'submit_orders')) {
        return template 'checkout';
    }

    redirect '/access_denied';
};
Account manager

- Account Providers
- Login/Logout
- Account Information
- Login status
- Forgot password
- Registration
Account Provider

- DBI
- LDAP *
- Htpasswd *
- OpenID *
- OAuth *
Access Control

- User
- Roles
- Permissions
Forms

- Display
- Validation
- Storage
Routes

- Categories
- Products
- Cart
- Checkout
- Login/Logout
- Customer Service
Default Route

get qr{/(.*)}/ => sub {
    my ($sku) = splat;
    my $product;

    # check for existing product
    if ($product = database->quick_select('products', {sku => $sku}))
    {
        # display flypage
        template 'flypage', $product;
    }
    else {
        # display not found page
        status 'not_found';
        forward '404';
    }
};
CPAN/GitHub

- http://search.cpan.org/dist/Nitesi/
- http://search.cpan.org/dist/Nitesi-DBI/
- https://github.com/racke/Nitesi
- https://github.com/racke/Nitesi-DBI
- https://github.com/racke/Dancer-Plugin-Nitesi
The End

Project: https://vsc.state.gov/