Modern PerlCommerce

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Interchange

- Around since 1995.
- Fast and stable.
- Flexible and extensible.

Showcases

- ▶ Backcountry http://www.backcountry.com/
- FragnanceNet http://www.fragrancenet.com/

My projects

- 20 projects
- 6 countries
- ▶ 80% income

Interchange

Sounds wonderful!

Interchange

Sounds wonderful! Really?

Community

- Small group of developers
- Little activity
- Same people
- Not part of CPAN

Developer

- Monolithic
- Same codebase
- Hard to find things

User

- Obscure templating
- Missing extensions
- Bad demo

Past



Alternatives to Interchange

- Handel
- Agora
- Business::Cart::Generic

Problem with Existing Codebase

- Problem with Existing Codebase
- Missing alternatives

- Problem with Existing Codebase
- Missing alternatives
- Strong competitors

We need a plan!

Rewrite from scratch ?

- Rewrite from scratch ?
- ▶ Too much work?

- Rewrite from scratch ?
- Too much work ?
- Modern Perl to the rescue!

Modern Perl

- ▶ Plack/PSGI
- **OO**
 - Moose
 - Moo
- Web Frameworks
 - Dancer
 - Catalyst
 - Mojolicious

Delegated Tasks

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

Extensions

- Bundles
- Plugins
- ► Hooks

Policy

- KISS
- Components
- Assumptions
- Expressive



Cart

- Session
- DBI
- Webservice *

Account Manager

- DBI
- ► LDAP *
- ► OpenID *

Templating Engine

Template::Toolkit

▶ Template::Flute

Web framework

- Catalyst
- Dancer
- Mojolicious

Preferences

- Dancer
- ▶ Template::Flute
- DBI

Features

- Navigation
- Cart
- Checkout
- Accounts

Cart

- ► SKU, Name, Quantity, Price
- ▶ Price > 0
- Combines automatically
- Multiple carts
- Storage everywhere
- Price caching



Nitesi::Cart Methods

```
use Dancer::Plugin::Nitesi;
cart -> add (sku => 'POM253', name => 'Pomelo',
     price \Rightarrow 3.00, quantity \Rightarrow 10);
cart -> remove (sku => 'POM253');
cart -> count();
cart -> clear();
cart -> total();
cart -> subtotal();
```

Everything is a Cart

- Saved Carts
- Wishlists
- Collections

Multiple Carts

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

Cart Backends

- Session
- DBI

Cart Checkout Accounts and Access Control Forms

Inventory Check

MinQuantityField min_quantity
MaxQuantityField inventory:quantity

Inventory Check Hook

Cart Hooks

- before_cart_add
- after_cart_add
- before_cart_update
- after_cart_update
- before_cart_remove
- after_cart_remove

Checkout

- Taxes
- Shipping
- Payment
- Invoice

Cart
Checkout
Accounts and Access Control
Forms

Payment

- Business::CreditCard
- 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

- Tax
- Shipping
- Coupons

Absolute Costs

Cart
Checkout
Accounts and Access Control
Forms

Relative Costs

Cart
Checkout
Accounts and Access Control
Forms

Inclusive Costs

PDF Invoices

- HTML template
- ► Template::Flute::PDF

Accounts

Accounts

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

Web Services

- ► REST
- XML-RPC
- ▶ SOAP

Nitesi



Vienna Shopping Cart

https://vsc.state.gov/

Payment Gateway

- charge keyword
- Business::OnlinePayment
- ACI payment system

OpenERP Interface

XML-RPC

Backend/CRM

- Backend
- ► CRM

Demo Shop

- Templates
- Navigation
- Database
- Payment Tests

CPAN/GitHub

- ▶ https://metacpan.org/module/Nitesi
- https://metacpan.org/module/Nitesi::DBI/
- https://metacpan.org/module/Dancer::
 Plugin::Nitesi/
- https://github.com/racke/Nitesi
- https://github.com/racke/Nitesi-DBI
- https:
 //github.com/racke/Dancer-Plugin-Nitesi

The End

Slides: http://www.linuxia.de/talks/perlcommerce/

perlcommerce-beamer.pdf

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