Modern PerlCommerce

Stefan Hornburg (Racke)
`racke@linuxia.de`

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Modern PerlCommerce
Past and Future
API
Development

Modern Perl
PerlCommerce Choices

Nitesi

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Modern Perl
PerlCommerce Choices

Modern Perl - OO

- ► Moose
- ► Mouse
- ► Moo

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Modern Perl
PerlCommerce Choices

Modern Perl - Web Frameworks

- ▶ Catalyst
- ▶ Dancer
- ▶ Mojolicious

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Modern Perl - ORM

- ▶ DBIx::Class
- ▶ Rose::DB

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Modern Perl - Ecommerce

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Modern Perl
PerlCommerce Choices

PerlCommerce Choices

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

Modern PerlCommerce
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Development

Past
Future

Past

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

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Past
Future

Interchange Development

- ► Lot of things
- ► Small community
- ► Same codebase

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Past
Future

Status quo

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Past
Future

References

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

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Future

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Past
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Principles

- ► KISS
- ► Components
- ► Independent
- ► Expressive

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Future

Independent

Cart

- ▶ Session
- ▶ DBI
- ▶ Webservice *

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Future

Independent

Account Manager

- ► DBI
- ► LDAP *
- ► OpenID *

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Future

Independent

Templating Engine

- ▶ Template::Toolkit
- ▶ Template::Flute

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Past
Future

Indepedent

Web framework

- ▶ Catalyst
- ▶ Dancer
- ▶ Mojolicious

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Preferences

- ► Dancer
- ► Template::Flute
- ► DBI

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Framework

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

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Extensions

- Bundles
- Plugins
- Hooks

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Features

- ▶ Navigation
- ▶ Cart
- ▶ Checkout
- ▶ Accounts

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Cart
Checkout
Accounts and Access Control
Forms

Cart

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

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Checkout
Accounts and Access Control
Forms

Nitesi::Cart Methods

```perl
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();
```

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Checkout
Accounts and Access Control
Forms
Web Services

Everything is a Cart

- Saved Carts
- Wishlists
- Collections

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Checkout
Accounts and Access Control
Forms

Multiple Carts

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

Cart Backends

- ► Session
- ► DBI

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Forms

Inventory Check

```
MinQuantityField  min_quantity
MaxQuantityField  inventory:quantity
```

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API

Development

Cart

Checkout

Accounts and Access Control

Forms

Inventory Check Hook

```perl
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';
    }
};
```

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Cart Hooks

- before_cart_add
- after_cart_add

Cart Hooks

- before_cart_remove
- after_cart_remove

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Checkout

- ▶ Taxes
- ▶ Shipping
- ▶ Payment
- ▶ Invoice

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Checkout
Accounts and Access Control
Forms

Payment

- ▶ Business::CreditCard
- ▶ Business::OnlinePayment

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Tax Modules on CPAN

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

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Shipping

- ▶ Simple Shipping
- ▶ Crazy Shipping
- ▶ Shipping API

Costs

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

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

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Accounts and Access Control
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PDF Invoices

- ▶ HTML template
- ▶ Template::Flute::PDF

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Checkout
Accounts and Access Control
Forms

Accounts

```perl
post '/login' => sub {
    if (account->login(username => params('body')->{username},
                       password => params('body')->{password})) {
        redirect '/customerservice';
    }
    else {
        redirect '/login';
    }
};
```

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Checkout
Accounts and Access Control
Forms

Accounts

```perl
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

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Past and Future   Checkout
API   Accounts and Access Control
Development   Forms

Account Provider

- ▶ DBI
- ▶ LDAP *
- ▶ Htpasswd *
- ▶ OpenID *
- ▶ OAuth *

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Access Control

- ▶ User
- ▶ Roles
- ▶ Permissions

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Forms

Forms

- Display
- Validation
- Storage

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Web Services

- ▶ REST
- ▶ XML-RPC
- ▶ SOAP

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Projects
Contribution
The End

Vienna Shopping Cart

```
https://vsc.state.gov/
```

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Payment Gateway

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

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OpenERP Interface

▶ XML-RPC

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Backend/CRM

- ▶ Backend
- ▶ CRM

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Demo Shop

- ▶ Templates
- ▶ Navigation
- ▶ Database
- ▶ Payment Tests

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CPAN/GitHub

- http://search.cpan.org/dist/Nitesi/
- http://search.cpan.org/dist/Nitesi-DBI/
- http://search.cpan.org/dist/
  Dancer-Plugin-Nitesi/

- https://github.com/racke/Nitesi
- https://github.com/racke/Nitesi-DBI
- https:
  //github.com/racke/Dancer-Plugin-Nitesi

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Past and Future
API
Development

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Contribution
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Slides: `http://www.linuxia.de/talks/perlcommerce/`
`perlcommerce-beamer.pdf`
Email: racke@linuxia.de