

Dancing Around the World

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American Spaces

- ▶ 850 American Spaces
- ▶ American Corners
- ▶ Information Resource Center
- ▶ Binational Center

American Spaces

[Ouagadougou](#) Martin Luther King Jr. Library

[Nuku'alofa](#) American Corner Nuku'alofa

[Gweru](#) American Corner Gweru

American Spaces



Amerika-Gedenkbibliothek Berlin

American Spaces Event



**Join Us for
the 4th of July!**

Tbilisi Youth Palace American Corner
continues summer activities and holds events
related to the US Independence Day:

- 1st July - movie-night - "Footloose" (2011) -
4:00 p.m.
- 2nd July - fair of handmade things, using
and imitative art models - 4:00 p.m.

This event is charitable and with earned money
American Corner Tbilisi will help children sick
with Leukemia

***Please, Become the Part of the
Charity Event !***

LDAP Directory - Hierarchy

Region EUR

Country Ukraine

City Kyiv

Space American Library Kyiv

LDAP Directory - DN

```
dn: ou=American Library Kyiv ,  
    ou=Ukraine ,  
    ou=EUR,  
    ou=institutes ,  
    dc=interchange ,  
    dc=at
```

LDAP Directory

- ▶ Homepage
- ▶ Longitude
- ▶ Latitude
- ▶ Year Opened
- ▶ Host Institution

Applications

- ▶ Dashboard
- ▶ eShop
- ▶ eLibraryUSA
- ▶ Administration
- ▶ Training
- ▶ Locator (planned)

Dashboard

- ▶ `https://americanspaces.state.gov/`
- ▶ Homepage internal/external
- ▶ Single Sign-On (SSO)

eShop

- ▶ `https://eshop.state.gov/`
- ▶ Procurement of Materials
- ▶ 11 commercial vendors
- ▶ 3 partners
- ▶ Backend for prices, substitutions
- ▶ Best price
- ▶ Price display only for American Spaces

eShop

- ▶ PostgreSQL
- ▶ WorldCat
- ▶ LibraryThing
- ▶ Solr / Ajax
- ▶ LiveChat, MailChimp
- ▶ ProForma invoices with PDF::WebKit

eShop: Search Solr / Ajax

- ▶ Products
- ▶ Partners
- ▶ Collections

eShop: WebService::Solr

```
$solr = WebService::Solr->new( config->{solr_url} );  
  
$results = $solr->search(_query_  
    "{!edismax qf='isbn sku title '}englishl*");  
  
$content = from_json $results->{raw_response}->{_content}  
  
@docs = @{$content->{response}->{docs}};
```

eShop: WebService::Solr::Document

```
sub value_for {  
  my ( $self , $key ) = @_;  
  
  for my $field ( $self->fields ) {  
    if ( $field->name eq $key ) {  
      return $field->value;  
    }  
  }  
  
  return ;  
}
```

eShop - PDF::WebKit

```
content_type 'application/pdf';  
$html = template('invoice', { ... }, {layout => undef});  
$img_url = uri_for('/images/');  
$html =~ s%/images/%$img_url%g;  
$kit = PDF::WebKit->new(\$html, page_size => 'Letter');  
return $kit->to_pdf;
```


eLibraryUSA

- ▶ `http://elibraryusa.state.gov/`
- ▶ Access to 30 commercial databases
- ▶ monthly themes
- ▶ EzProxy-Server

Administration

Access Superuser, Referrer, Patrons

Spaces Region, Country, City, Homepage, GeoIP, ...

User Space, Role, Email, ...

Single Sign-On

- ▶ Functions
- ▶ Cookies
- ▶ Password policy
- ▶ Email validation

Single Sign-On Functions

- ▶ Login
- ▶ Logout
- ▶ Reset password
- ▶ Change password

Single Sign-On

- ▶ Check login status
- ▶ Create token
- ▶ Login form
- ▶ Load user data

Cookies

```
cookie 'sso.username' => 'racke@linuxia.de',  
      domain => '.state.gov',  
      expires => config->{session_expires};
```

Password Policy

- ▶ Minimum 8 characters
- ▶ One lowercase and one uppercase
- ▶ Pattern `qwertz`
- ▶ Leet `ph34r`
- ▶ `Data::Transpose::PasswordPolicy`

Email::Valid

- ▶ rfc822
 - ▶ info@icdev.de; racke@linuxia.de
 - ▶ racke.linuxia.de
- ▶ tld
- ▶ mxcheck

VERP

- ▶ Variable Envelope Return Path

```
<< bounces@interchange . at  
>> racke@linuxia . de
```

```
<< bounces—racke=linuxia . de@interchange . at  
>> racke@linuxia . de
```

Dancer

- ▶ Why Dancer
- ▶ Plugins
- ▶ Hooks

Why Dancer?

Simple

Flexible

Community

Eco system

Plugins

Dancer::Plugin::Database

Dancer::Plugin::Email

Dancer::Plugin::LDAP

Dancer::Plugin::LibraryThing

Dancer::Plugin::Nitesi

Dancer::Plugin::SSO

Dancer::Plugin::Database

plugins :

Database:

driver: Pg

database: iro

username: interch

password: nevairbe

Dancer::Plugin::Database

- ▶ quick_select
- ▶ quick_insert
- ▶ quick_update
- ▶ quick_delete

Dancer::Plugin::Database

```
$user_ref = database->quick_select('users',  
    {username => lc($username)});
```

Dancer::Plugin::Database

- ▶ SQL::Abstract
- ▶ SQL::Abstract::More
- ▶ DBIx::Class (planned)

Dancer::Plugin::LDAP

plugins :

LDAP:

uri : 'ldap://127.0.0.1:389/ '

bind : cn=admin,dc=linuxia,dc=de

password : nevairbe

base : dc=linuxia,dc=de

Dancer::Plugin::LDAP

- ▶ quick_select
- ▶ quick_insert
- ▶ quick_update
- ▶ quick_delete

Dancer::Plugin::LDAP

```
@users = ldap->quick_select(  
  {dosRegionName => 'EUR',  
    c => 'Ukraine',  
    dosInstitute => 'American Library Kyiv',  
    objectClass => 'dosPerson'  
  });
```

Dancer::Plugin::LDAP features

- ▶ UTF-8 handling
 - ▶ DN
 - ▶ Attributes
- ▶ Empty values for attributes

Dancer::Plugin::Nitesi

```
cart('')->add(sku => '9782357450271',  
              name => 'The Adventures of Tom Sawyer',  
              price => 8,  
              quantity => 10,  
            );
```

```
cart('collect')->add(sku => '447',  
                    name => 'Youth',  
                    price => 804,  
                  );
```

Hooks

- ▶ before
- ▶ before_template_render
- ▶ database_connection_failed
- ▶ database_connection_lost
- ▶ sso_login
- ▶ sso_failure

eShop SSO hooks

```
hook sso_login => sub {  
  my $account = shift;  
  
  if (! (account->become($account->username))) {  
    debug "Account not approved for eShop: ",  
          $account->username;  
    vars->{account_missing} = $account->username;  
  }  
};  
  
hook sso_failure => sub {  
  account->logout;  
};
```

Development & Deployment

- ▶ Local OpenLDAP Instance
- ▶ Email Redirect
- ▶ Nginx

Local OpenLDAP Instance

```
% rm -rf ldap/db
% mkdir ldap/db
% cp /usr/share/slapd/DB_CONFIG ldap/db
% /usr/sbin/slapadd -f slapd.conf live.ldif
% /usr/sbin/slapd -u 1000 -g 1000 \
    -h ldap://127.0.0.1:9009 -f slapd.conf
```

Email Redirect

```
plugins :  
  Email :  
    transport :  
      Sendmail :  
        redirect_address : racke@linuxia.de
```

Nginx Configuration

```
server {  
    listen 80;  
    server_name elibraryusa.state.gov;  
    root /home/dancer/Elib/public;  
  
    ...  
}
```

Nginx Configuration

```
server {  
    ...  
  
    location / {  
        try_files $uri @proxy;  
        access_log off;  
        expires max;  
    }  
  
    ...  
}
```

Nginx Configuration

```
server {  
    ...  
  
    location @proxy {  
        proxy_set_header Host $http_host;  
        proxy_set_header X-Forwarded-Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_pass http://localhost:5001;  
    }  
}
```

Nginx Configuration SSL

```
server {  
    listen 213.129.249.66:443;  
    server_name eshop.state.gov;  
    root /home/interch/eShop/public;  
  
    ssl on;  
    ssl_certificate_key /etc/ssl/private/eshop.state.gov.  
    ssl_certificate /etc/ssl/certs/eshop.state.gov.pem;  
  
    ...  
}
```

Nginx Configuration SSL

```
server {  
    ...  
  
    location @proxy {  
        proxy_set_header Host $http_host;  
        proxy_set_header X-Forwarded-Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header X-Forwarded-Proto https;  
        proxy_pass http://localhost:5001;  
    }  
}
```

Dance break

Slides: <http://www.linuxia.de/talks/yapc2013/dancer-for-the-world-beamer.pdf>

Ecommerce Innovation

- ▶ Dancer / Perl / Ecommerce Conference
- ▶ Hancock, NY, 8-11 October
- ▶ Speakers and Attendees welcome

