

Jifty Now!



Audrey Tang

Jifty Now.

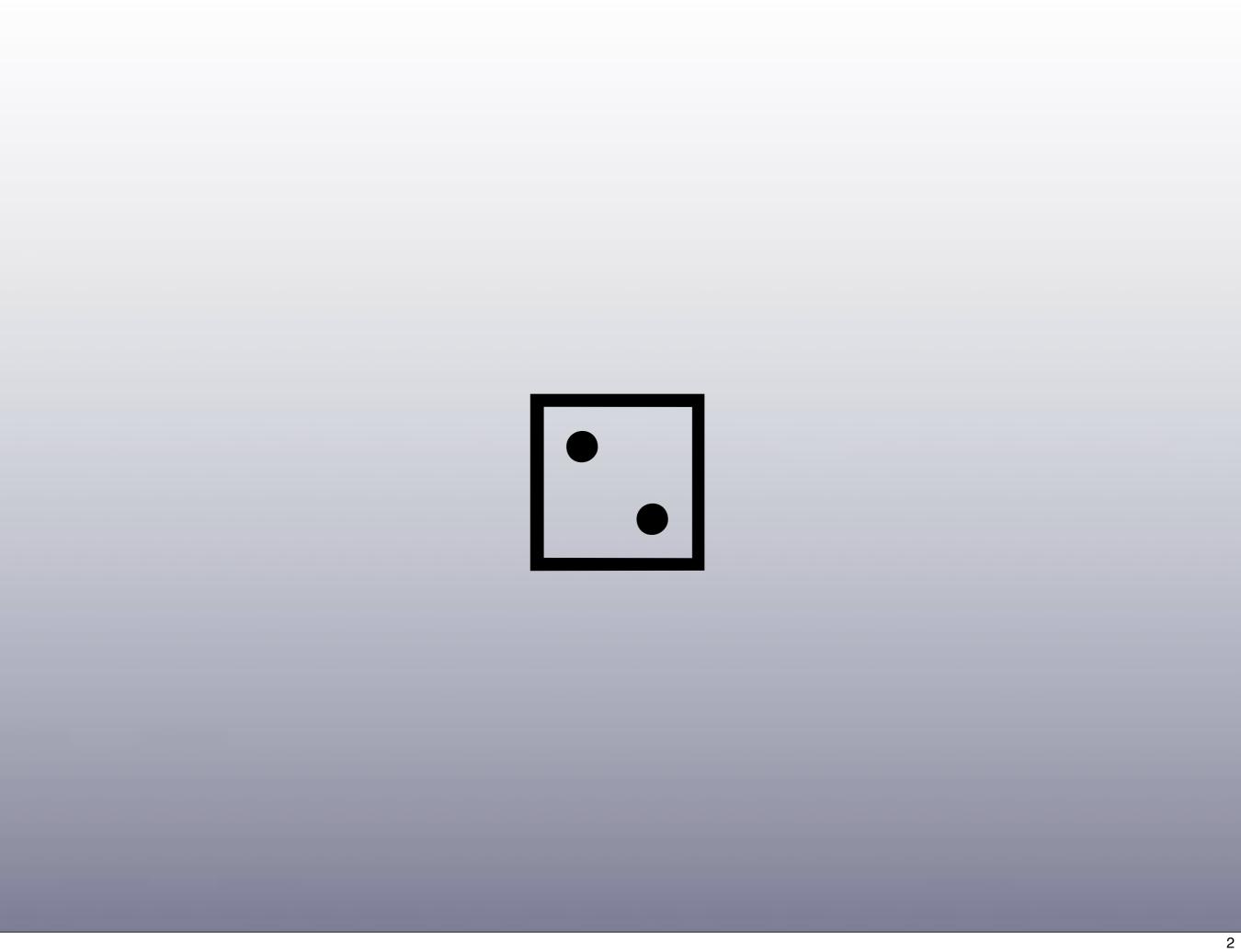


Jessed Vincent

Jifty Now!



Pretending to be audreyt



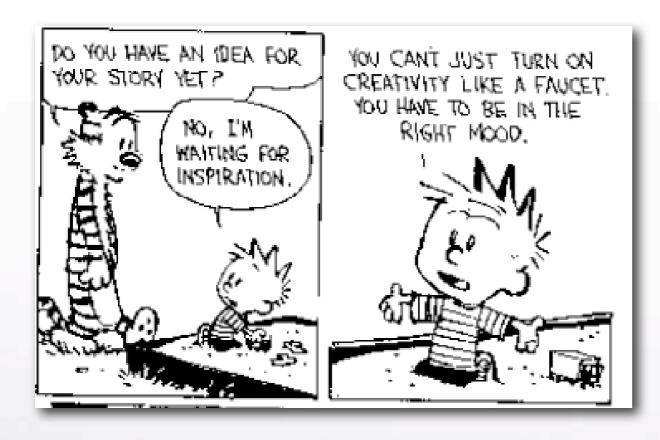
Going to Japan tomorrow

- Going to Japan tomorrow

- Going to Japan tomorrow
- □ Two talks at YAPC::Asia
- Panic: No slides!

JIT

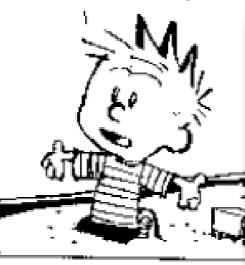
JIT



JIT



YOU CAN'T JUST TURN ON CREATIVITY LIKE A FAUCET. YOU HAVE TO BE IN THE RIGHT MOOD.





- □ Two talks to work on
- □ Which one first?
- Panic: Can't decide!

doxory?

You need help deciding what to do...

Slides for both of my talks for YAPC::Asia are rather outdated, and the deadline is imminent

doxory? If the by committee

Should you...

Update "Jifty Now" to show how Doxory.com is built

...or should you...

Update "Perl 6 Today" to include latest Pugs developments

Ask the crowd!

doxory? If the by committee

Should you...

Update "Jifty Now" to show how Doxory.com is built

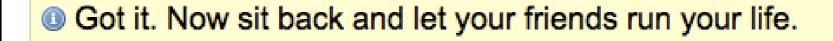
...or should you...

Update "Perl 6 Today" to include latest Pugs developments

Ask the crowd!



doxory? If the by committee





Waiting for a decision

- Waiting for a decision
- No need to work just now

- Waiting for a decision
- No need to work just now
- So I have time to help people!

<u>jdaviescoates</u>: I think I need more skills and more money

Asked 90 days and 7 hours ago

learn python and hack plone

or learn php and become a drupal hacker

jdaviescoates: I think I need more skills and more money

Asked 90 days and 7 hours ago

learn python and hack plone

or

"False Dilemma"

learn php and become a drupal hacker

<u>jdaviescoates</u>: I think I need more skills and more money

Asked 90 days and 7 hours ago

Comments? Learn Perl and become a Jifty hacker, surely! :-)

Before you click, give us some idea of why you feel that way.

<u>jdaviescoates</u>: I think I need more skills and more money

Asked 90 days and 7 hours ago

Comments? Learn Perl and become a <u>Jifty</u> hacker, surely! :-)

Before you click, give us some idea of why you feel that way.



jdaviescoates: I think I need more skills and more money...

or learn python and hack plone (60) leads over learn php and become a drupal hacker (23). (asked 90 days and 7 hours ago)

Details...

timowest: Help me choose!

Asked 17 days and 15 hours ago

Semantic Web

or

Web 2.0

jdaviescoates: I think I need more skills and more money...

or learn python and hack plone (60) leads over learn php and become a drupal hacker (23). (asked 90 days and 7 hours ago)

Details...

timowest: Help me choose!

Asked 17 days and 15 hours ago

Semantic Web

or

Web 2.0

jdaviescoates: I think I need more skills and more money...

or learn python and hack plone (60) leads over learn php and become a drupal hacker (23). (asked 90 days and 7 hours ago)

learn php and become a drupal hacker

jesse, austein, seph, Draconid, wibbly, saul, lan, Bliss, sauergeek, meri, RedBug, PhoneticLight, misty, merlin, Shields, hanopycanopy, propertrampage, saifatlast, ChickenPotPie, cire1425, gg, maor1948, kzinti

or learn python and hack plone

ocschwar, kilroi, crs, bob, shadow, Karl,
nelhage, zkzkz, ntn, uberjay, Richie, j3h, jtu,
Beck, Diane, Martin, transistorman, cshiley,
Alex, tibbetts, diediedie, Lex, paigep,
barnex, Combaine, kevinr, ctl, MasterMark,
trs, Kake, Yoyo, Mark, kyoumeisha,
Arcadia, dha, jimd, aletta, daveman692,
Kitty, acme, whump, timseal, ctsims,
ZaTyrn, RedHotWings, kainam, benazeer,
Brad, ternus, hatter, Lattyware, dvp,
garfieldfreak123, chrismear, DOAconstrictor,
steev, ilmari, duckie, dorgreen

jdaviescoates: I think I need more skills and more money...

or learn python and hack plone (60) leads over learn php and become a drupal hacker (23). (asked 90 days and 7 hours ago)

learn php and become a drupal hacker

jesse, austein, seph, Draconid, wibbly, saul, lan, Bliss, sauergeek, meri, RedBug, PhoneticLight, misty, merlin, Shields, hanopycanopy, propertrampage, saifatlast, ChickenPotPie, cire1425, gg, maor1948, kzinti

or learn python and hack plone

ocschwar, kilroi, crs, bob, shadow, Karl,
nelhage, zkzkz, ntn, uberjay, Richie, j3h, jtu,
Beck, Diane, Martin, transistorman, cshiley,
Alex, tibbetts, diediedie, Lex, paigep,
barnex, Combaine, kevinr, ctl, MasterMark,
trs, Kake, Yoyo, Mark, kyoumeisha,
Arcadia, dha, jimd, aletta, daveman692,
Kitty, acme, whump, timseal, ctsims,
ZaTyrn, RedHotWings, kainam, benazeer,
Brad, ternus, hatter, Lattyware, dvp,
garfieldfreak123, chrismear, DOAconstrictor,
steev, ilmari, duckie, dorgreen

Skipped (with comments)

roy

Learn Ruby and hack Rails.

<u>AudreyT</u>

Learn Perl and become a Jifty hacker, surely! :-)

An hour passes...



...we have a decision!

People are asking



AudreyT: Slides for both of my talks for YAPC::Asia are rather outdated, and the deadline is imminent...

Update "Jifty Now" to show how Doxory.com is built leads over

Update "Perl 6 Today" to include latest Pugs developments.

(asked 1 hour and 6 minutes ago) Made up your mind?





Web framework

Solution Easy things easy

- **Web framework**
- **Solution Easy things easy**
- J Impossible things easy

Just Do It

Just Do It

Solution Lets you JFDI

- **Just Do It**
- **M** Lets you JFDI
- **So let's JFD!!**

\$ cpan

```
$ cpan
cpan> notest install Jifty
```

\$ cpan
cpan> notest install Jifty

"notest" saves ~60 minutes here.

\$ jifty app --name Doxory

```
$ jifty app --name Doxory
Creating new application Doxory
Creating directory lib
Creating directory lib/Doxory
Creating directory bin
Creating directory etc
Creating directory doc
Creating directory log
Creating directory var
Creating directory var/mason
Creating directory share
Creating directory share/po
Creating directory share/web
Creating directory share/web/templates
Creating directory share/web/static
Creating directory lib/Doxory/Model
Creating directory lib/Doxory/Action
Creating directory t
Creating configuration file Doxory/etc/config.yml
```

bin/jifty

bin/jifty

bin/jifty

etc/config.yml

- bin/jifty
- etc/config.yml
- Makefile.PL

It runs!



It runs!



\$ cd Doxory

- \$ cd Doxory
- \$ jifty model --name User

\$ cd Doxory

```
$ jifty model --name User
Writing file t/00-model-User.t
Writing file lib/Doxory/Model/User.pm
```

\$ cd Doxory

```
$ jifty model --name User
Writing file t/00-model-User.t
Writing file lib/Doxory/Model/User.pm
```

\$ vim lib/Doxory/Model/User.pm

```
package Doxory::Model::User;
use Jifty::DBI::Schema;
use Doxory::Record schema {
```

};

25

```
package Doxory::Model::User;
use Jifty::DBI::Schema;
use Doxory::Record schema {
column name =>
    label is 'Username',
    hints is 'Other people see this when you ask questions.',
    is distinct,
    is mandatory;
column email =>
    label is 'Email',
    hints is 'We will not sell it to anybody. Honest.',
    default is '',
    is distinct,
    is immutable;
};
```

\$ jifty schema

\$ jifty schema

- INFO Generating SQL for application Doxory...
- INFO Using Doxory::Model::User
- INFO Using Jifty::Model::Session
- INFO Using Jifty::Model::Metadata
- INFO Set up version v0.0.1, jifty version 0.701170

\$ jifty schema INFO - Generating SQL for application Doxory... INFO - Using Doxory::Model::User INFO - Using Jifty::Model::Session INFO - Using Jifty::Model::Metadata INFO - Set up version v0.0.1, jifty version 0.701170 \$ jifty server

\$ jifty schema INFO - Generating SQL for application Doxory... INFO - Using Doxory::Model::User INFO - Using Jifty::Model::Session INFO - Using Jifty::Model::Metadata INFO - Set up version v0.0.1, jifty version 0.701170

\$ jifty server

INFO - You can connect to your server at http://localhost:8888/

Welcome to your new Jifty application





Jifty Administrative Console

You're not currently signed in.

ADMINISTRATION

USER

Database Administration

This console lets you manage the records in your Jifty database. Below, you should see a list of all your database tables. Feel free to go through and add, delete or modify records.

To disable this administrative console, add "AdminMode: 0" under the "framework:" settings in the config file (etc/config.yml).

Models

User

Actions

- Doxory::Action::Record::Create
- Doxory::Action::Record::Delete
- Doxory::Action::Record::Search
- Doxory::Action::Record::Update
- Jifty::Action::Autocomplete
- Jifty::Action::Redirect

Done?

Back to the application

Page info

Jifty Administrative Console

You're not currently signed in.

ADMINISTRATION

USER

Database Administration

This console lets you manage the records in your Jifty database. Below, you should see a list of all your database tables. Feel free to go through and add, delete or modify records.

To disable this administrative console, add "AdminMode: 0" under the "framework:" settings in the config file (etc/config.yml).

Models



Actions

- Doxory::Action::Record::Create
- Doxory::Action::Record::Delete
- Doxory::Action::Record::Search
- Doxory::Action::Record::Update
- Jifty::Action::Autocomplete
- Jifty::Action::Redirect

Done?

Back to the application

Page info

Manage User records

You're not currently signed in.

ADMINISTRATION

USER

Manage records: User

Toggle search No items found

Username

audreyt

Email

audreyt@audreyt.org

Other people see this when you ask questions. We will not sell it to anybody. Honest.

Create

Manage User records

You're not currently signed in.

ADMINISTRATION

USER

Manage records: User

Toggle search No items found

Username

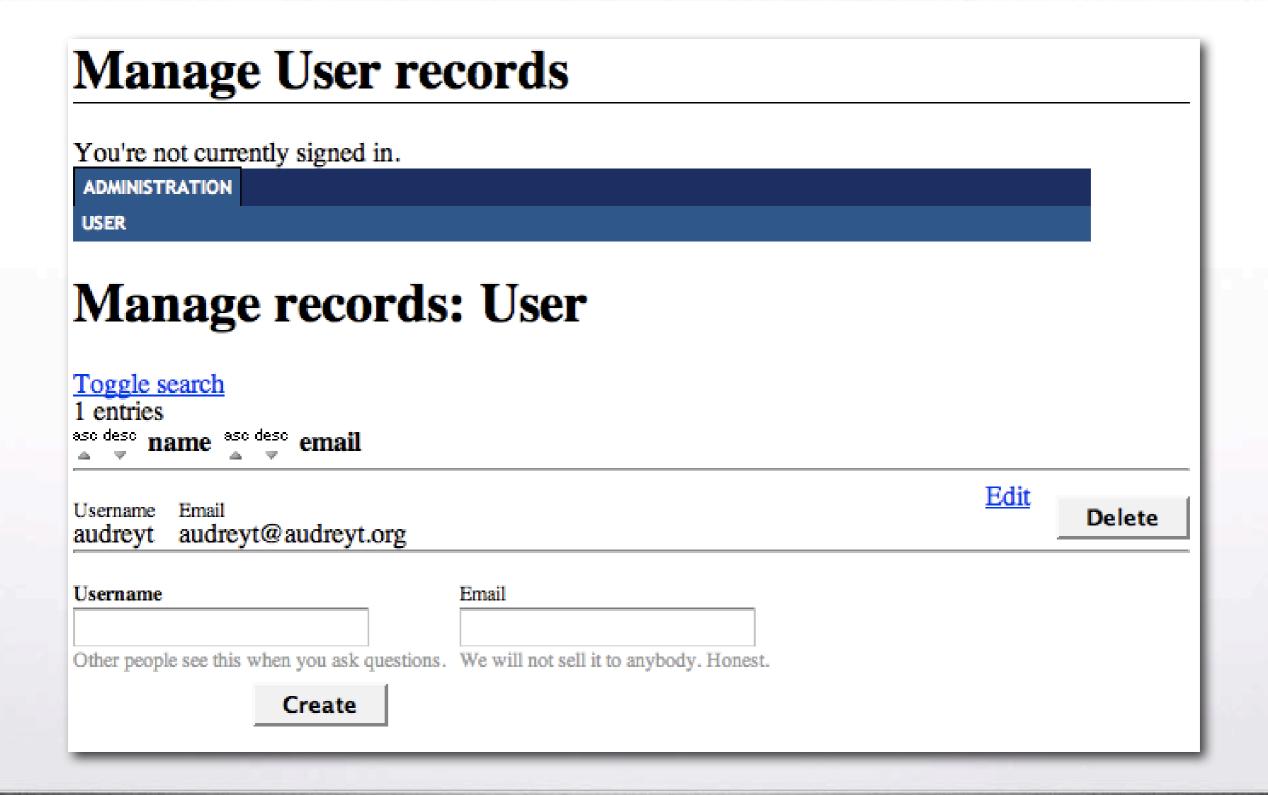
audreyt

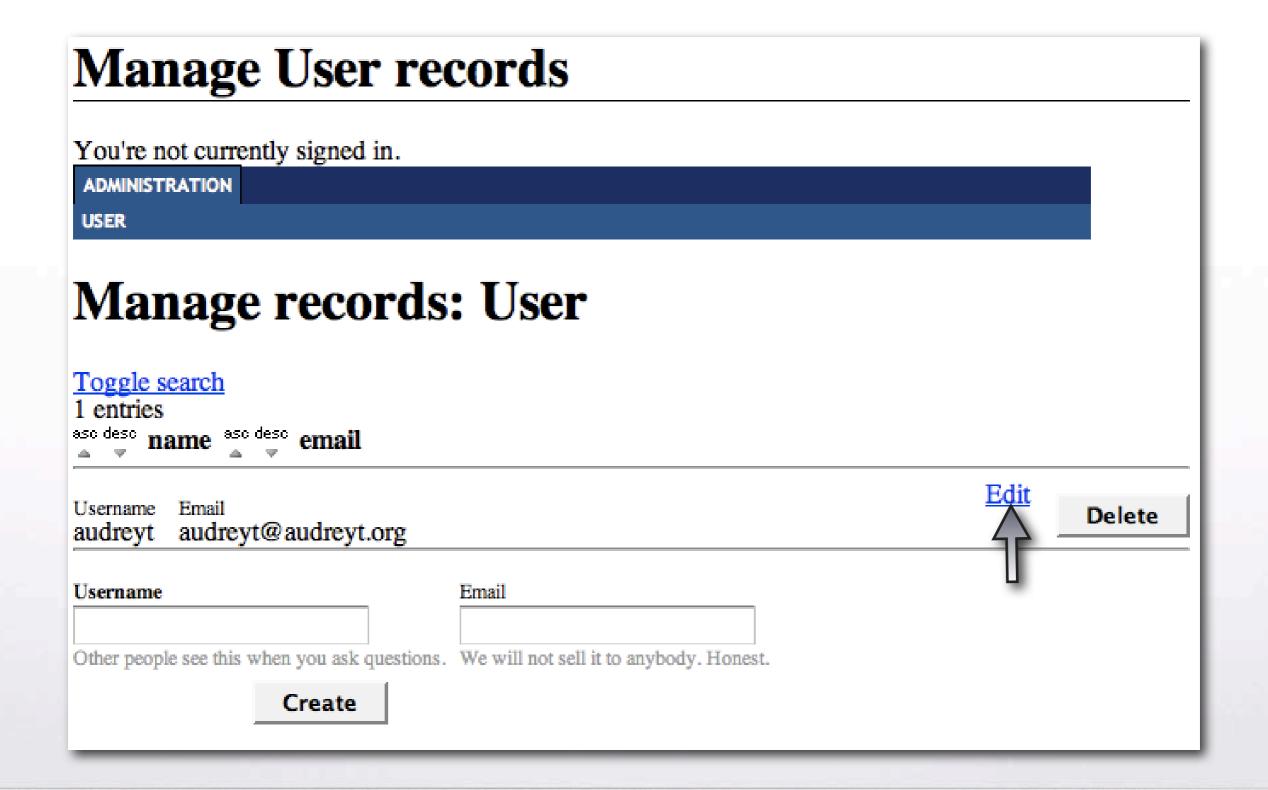
Other people see this when you ask questions. We will not sell it to anybody. Honest.

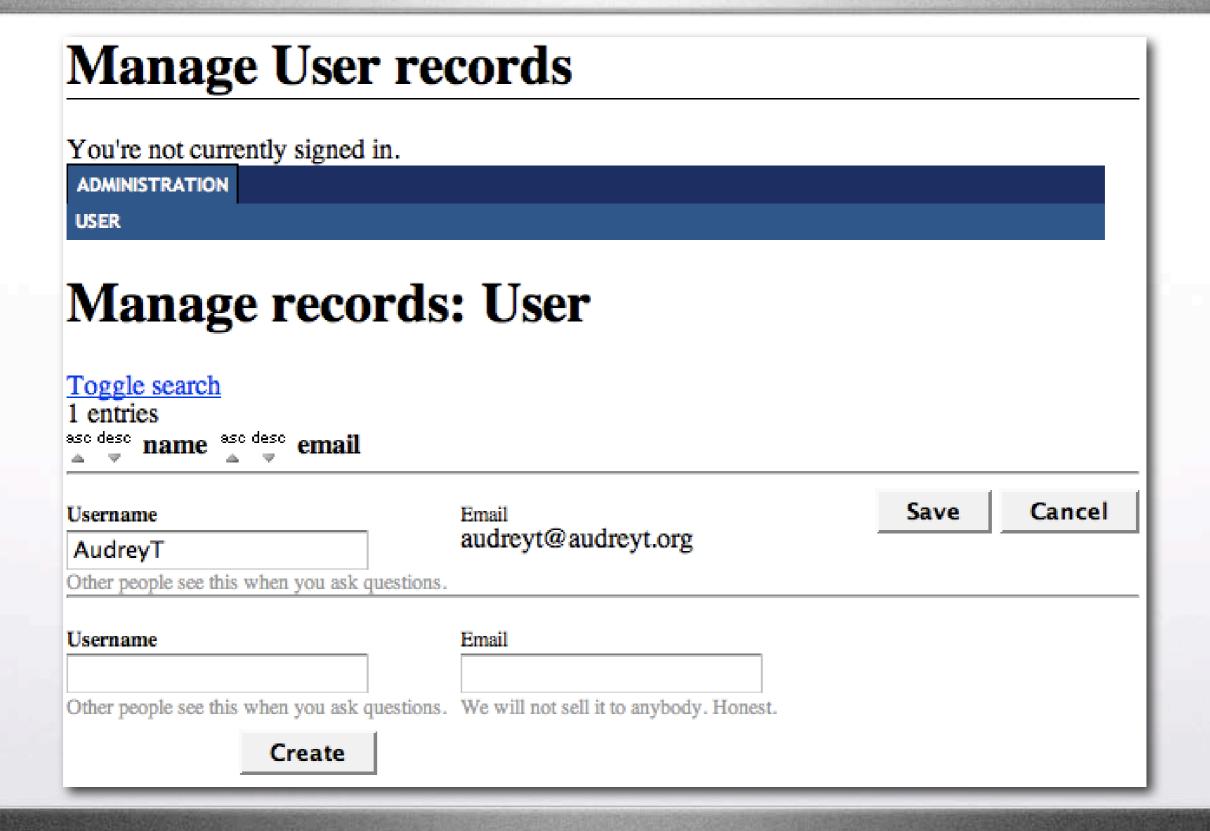
Email

audreyt@audreyt.org

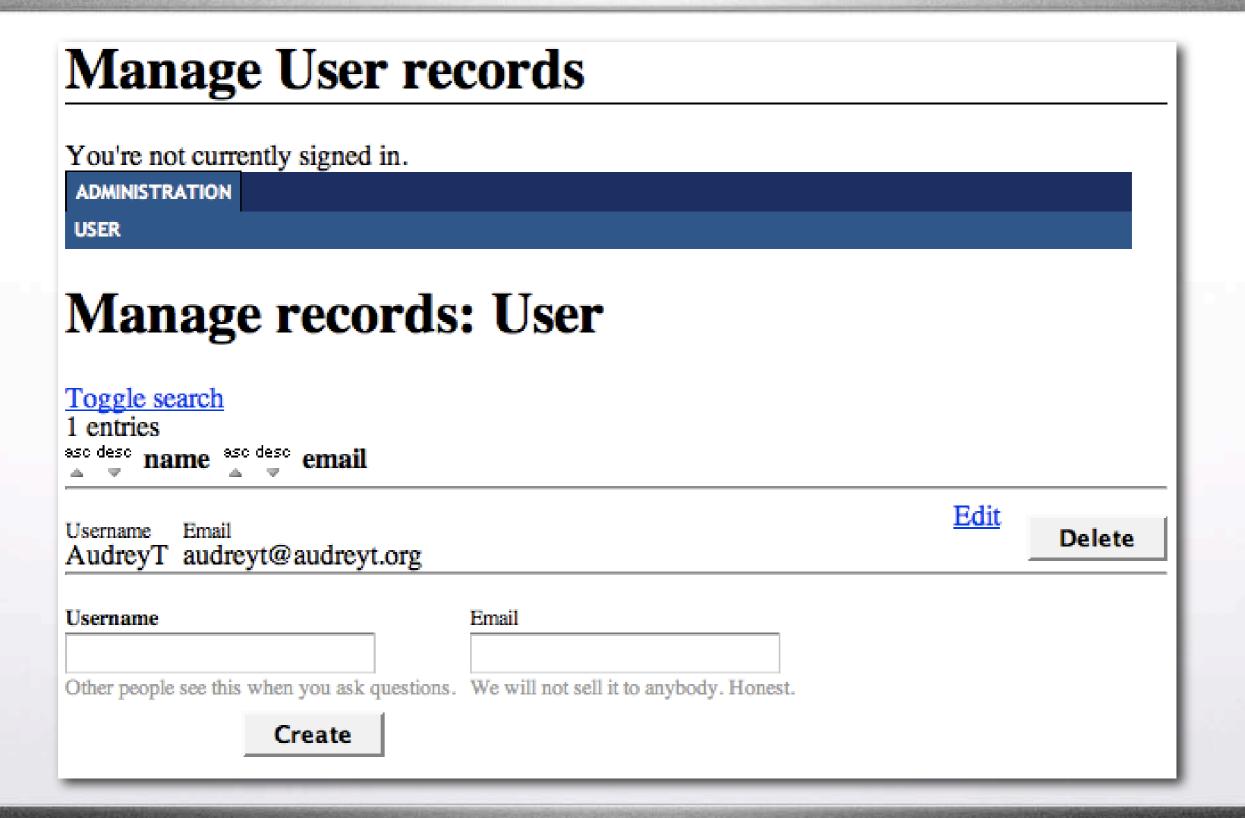


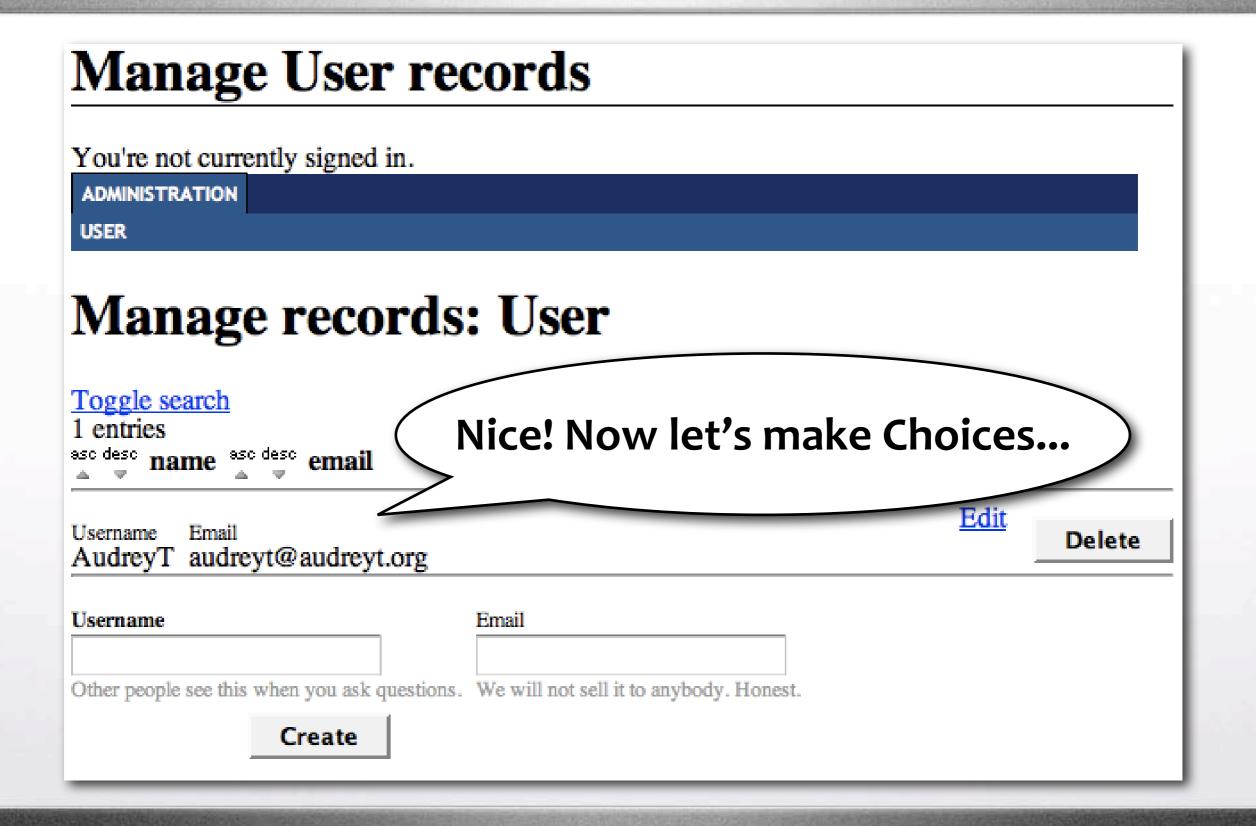






Manage User records You're not currently signed in. **ADMINISTRATION USER** Manage records: User Toggle search 1 entries asc desc name asc desc email Save Cancel Username Email audreyt@audreyt.org AudreyT Other people see this when you ask questions. Username Email Other people see this when you ask questions. We will not sell it to anybody. Honest. Create





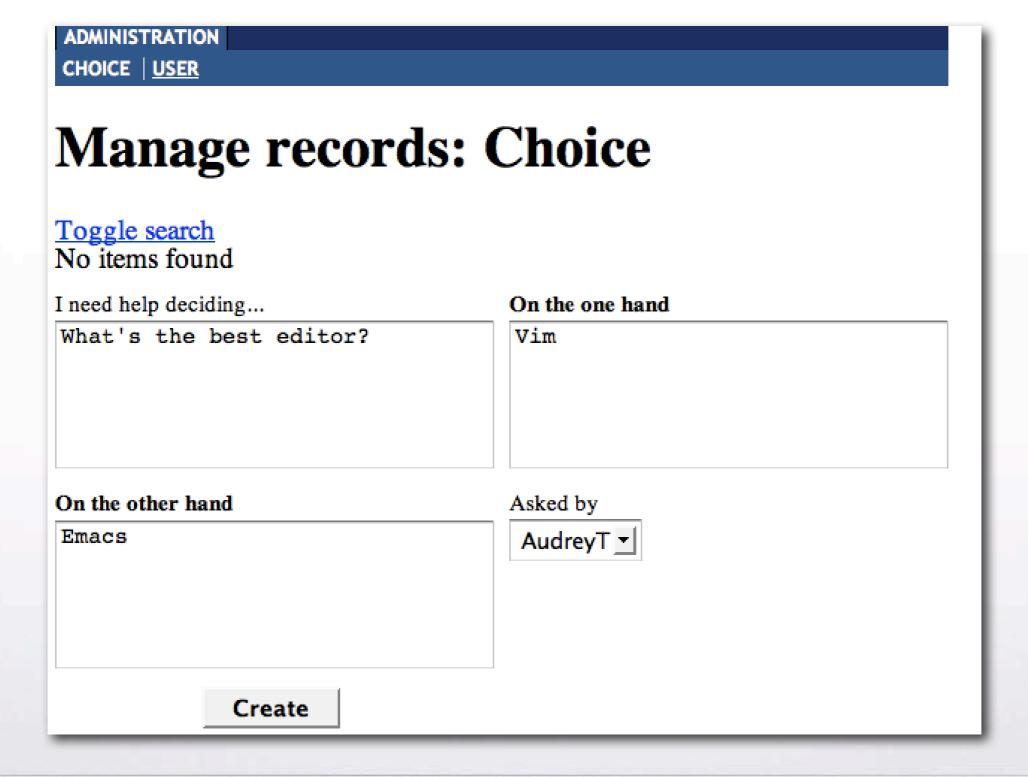
\$ jifty model --name Choice

```
$ jifty model --name Choice
Writing file t/00-model-Choice.t
Writing file lib/Doxory/Model/Choice.pm
```

```
$ jifty model --name Choice
Writing file t/00-model-Choice.t
Writing file lib/Doxory/Model/Choice.pm
```

\$ vim lib/Doxory/Model/Choice.pm

```
package Doxory::Model::Choice;
use Jifty::DBI::Schema;
use Doxory::Record schema {
column name =>
    label is 'I need help deciding...',
    render as 'textarea';
column a =>
    label is 'On the one hand',
    render as 'textarea', is mandatory;
column b =>
    label is 'On the other hand',
    render as 'textarea', is mandatory;
column asked by =>
    label is 'Asked by',
    default is defer { Jifty->web->current_user->id },
    references Doxory::Model::User;
};
```



ADMINISTRATION CHOICE | USER Manage records: Choice Toggle search No items found I need help deciding... On the one hand What's the best editor? Vim Asked by On the other hand **A**udreyT <u>▼</u> Emacs **Create** ≤

ADMINISTRATION CHOICE | USER

Manage records: Choice

Toggle search No items found

I need help deciding... What's the best editor? Vim

On the one hand

On the other hand **Emacs**

Asked by AudreyT <u>Edit</u>

Delete



ADMINISTRATION CHOICE | USER

Manage records: Choice

Toggle search No items found

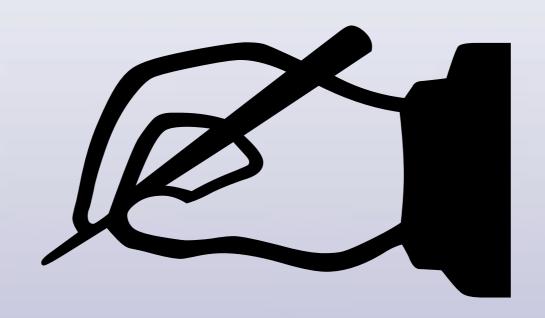
I need help deciding... What's the best editor? Vim

On the one hand

On the other hand Emacs

Asked by AudreyT Edit

Delete



\$ vim etc/config.yml

\$ vim etc/config.yml

We need to add two lines here.

```
framework:
   Plugins:
    - SkeletonApp: {}
    - REST: {}
    - Halo: {}
    - ErrorTemplates: {}
    - CompressedCSSandJS: {}
```

```
framework:
  Plugins:
    - SkeletonApp: {}
    - REST: {}
    - Halo: {}
    - ErrorTemplates: {}
    - CompressedCSSandJS: {}
    - Authentication::Password: {}
  SkipAccessControl: 1
```

```
framework:
  Plugins:
    - SkeletonApp: {}
    - REST: {}
    - Halo: {}
    - ErrorTemplates: {}
    - CompressedCSSandJS: {}
    - Authentication::Password: {}
  SkipAccessControl: 1
```

Too lazy to define ACLs yet.

\$ vim lib/Doxory/Model/User.pm

\$ vim lib/Doxory/Model/User.pm

Then we add two mixins here.

```
package Doxory::Model::User;
use Jifty::DBI::Schema;
use Doxory::Record schema {
column name =>
    label is 'Username',
    hints is 'Other people see this when you ask questions.',
    is distinct,
    is mandatory;
column email =>
    label is 'Email',
    hints is 'We will not sell it to anybody. Honest.',
    default is '',
    is distinct,
    is immutable;
};
```

```
package Doxory::Model::User;
use Jifty::DBI::Schema;
use Doxory::Record schema {
column name =>
    label is 'Username',
    hints is 'Other people see this when you ask questions.',
    is distinct,
    is mandatory;
column email =>
    label is 'Email',
    hints is 'We will not sell it to anybody. Honest.',
    default is '',
    is distinct,
    is immutable;
};
```

```
use Jifty::Plugin::User::Mixin::Model::User;
use Jifty::Plugin::Authentication::Password::Mixin::Model::User;
```

Welcome to your new Jifty application



Welcome to your new Jifty application



HOME SIGN UP LOGIN

Signup

Nickname JesseVincent

How should I display your name to other users?

Email address jesse@bestpractical.com

Password *****

Your password should be at least six characters

Type that again?

Signup

HOME SIGN UP LOGIN

Signup

Nickname JesseVincent

How should I display your name to other users?

Email address jesse@bestpractical.com

Password *****

Your password should be at least six characters

Type that again?

Signup 🐇

HOME SIGN UP LOGIN



HOME SIGN UP LOGIN

Welcome to Doxory, JesseVincent. We've sent a confirmation message to your email box. 🗈



From: Doxory \Leftrightarrow

Date: April 3, 2007 5:43:07 PM JST

To: jesse@bestpractical.com **Subject: Welcome to Doxory!**

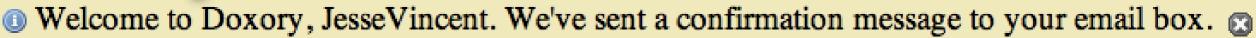
You're getting this message because you (or somebody claiming to be you) wants to use Doxory.

We need to make sure that we got your email address right. Click on the link below to get started:

http://127.0.0.1:8888/let/jesse%40bestpractical.com/confirm_email/78f28e934cf6c058

You're not currently signed in.

HOME SIGN UP LOGIN





From: Doxory \Leftrightarrow

Date: April 3, 2007 5:43:07 PM JST

To: jesse@bestpractical.com **Subject: Welcome to Doxory!**

You're getting this message because you (or somebody claiming to be you) wants to use Doxory.

We need to make sure that we got your email address right. Click on the link below to get started:

http://127.0.0.1:8888/let/jesse%40bestpractical.com/confirm_email/78f28e934cf6c058

You're not currently signed in.

HOME SIGN UP LOGIN

Login!

No account yet? It's quick and easy. Sign up for an account!

Login with a password

Email jesse@bestpractical.com

Password *****

Remember me?

Your browser can remember your login for you

Login

Lost your password?

You're not currently signed in.

HOME SIGN UP LOGIN

Login!

No account yet? It's quick and easy. Sign up for an account!

Login with a password

Email jesse@bestpractical.com

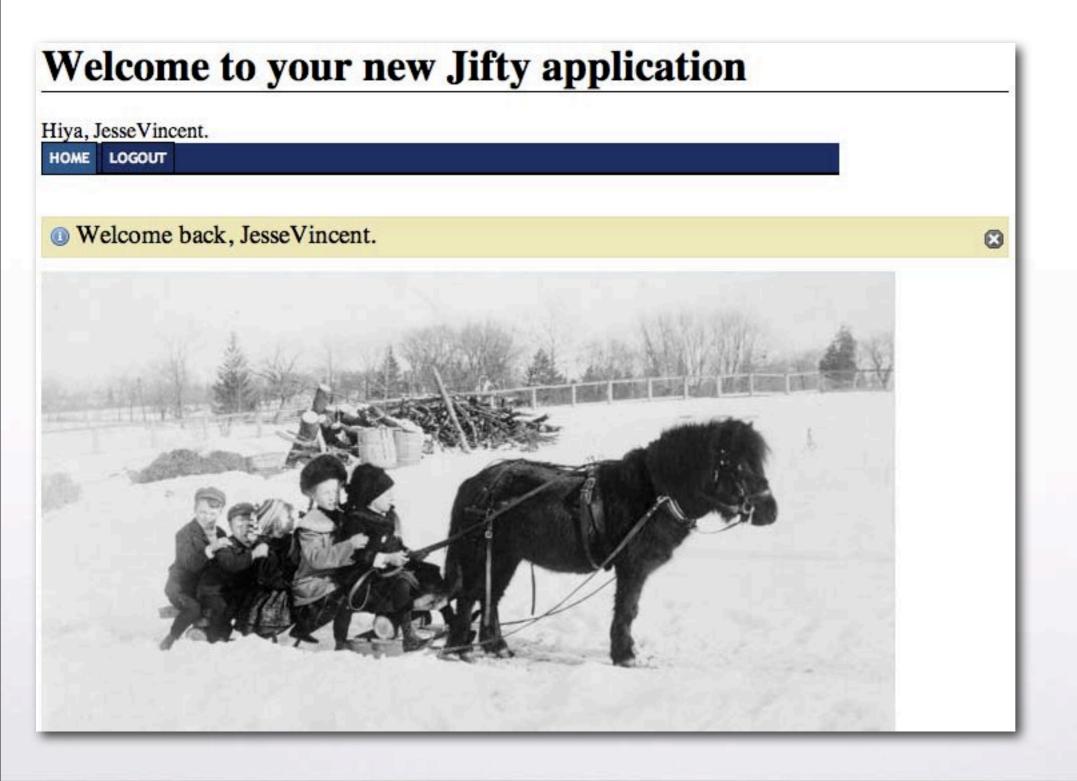
Password *****

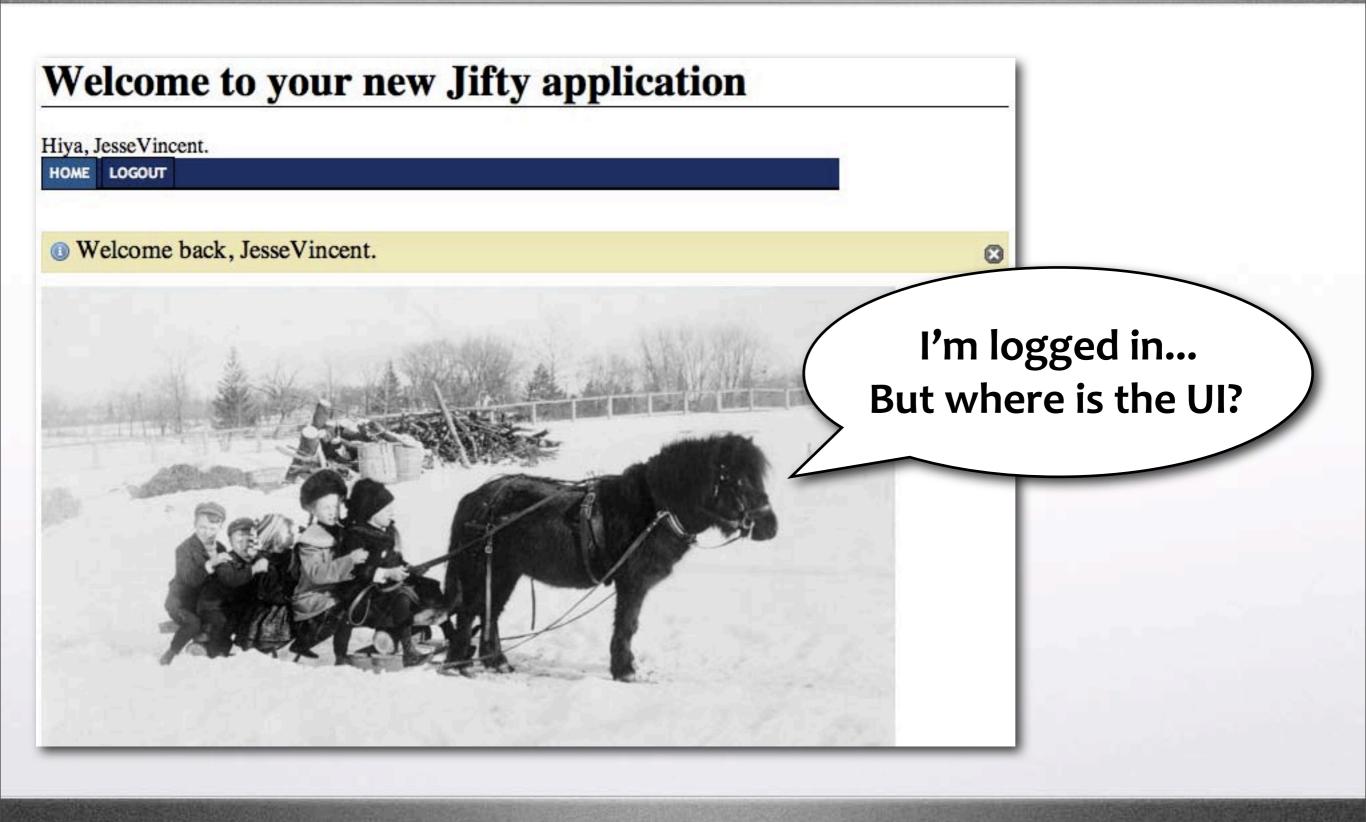
Remember me?

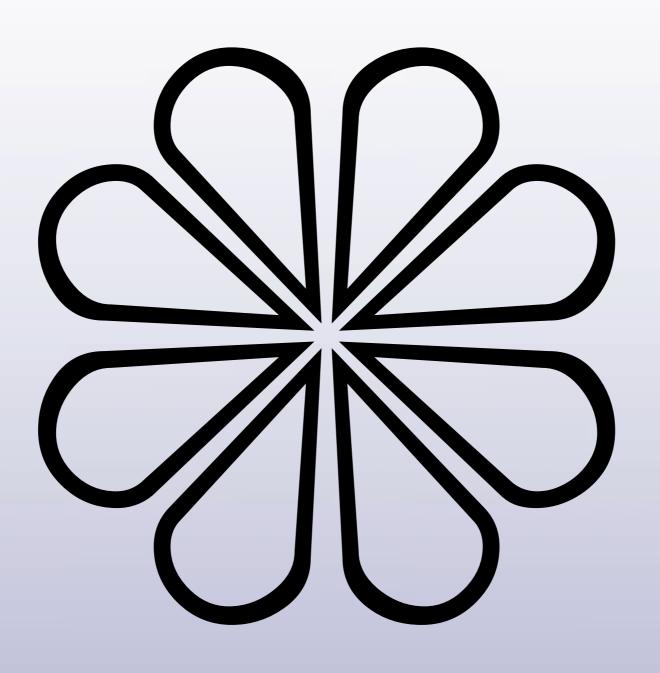
Your browser can remember your login for you



Lost your password?







\$ vim lib/Doxory/Dispatcher.pm

\$ vim lib/Doxory/Dispatcher.pm

Dispatcher maps URLs to Views.

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;

before '*' => run {
   if (Jifty->web->current_user->id) {
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;

before '*' => run {
   if (Jifty->web->current_user->id) {
      my $top = Jifty->web->navigation;
      $top->child( 'Choices' => url => '/choices' );
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;

before '*' => run {
    if (Jifty->web->current_user->id) {
        my $top = Jifty->web->navigation;
        $top->child( 'Choices' => url => '/choices' );
    }
}
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;

before '*' => run {
    if (Jifty->web->current_user->id) {
        my $top = Jifty->web->navigation;
        $top->child( 'Choices' => url => '/choices' );
    }
    elsif ($1 !~ /^login|^signup/) {
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;

before '*' => run {
    if (Jifty->web->current_user->id) {
        my $top = Jifty->web->navigation;
        $top->child( 'Choices' => url => '/choices' );
    }
    elsif ($1 !~ /^login|^signup/) {
        tangent 'login';
    }
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;

before '*' => run {
    if (Jifty->web->current_user->id) {
        my $top = Jifty->web->navigation;
        $top->child( 'Choices' => url => '/choices' );
    }
    elsif ($1 !~ /^login|^signup/) {
        tangent 'login';
    }
};
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;
before '*' => run {
    if (Jifty->web->current_user->id) {
        my $top = Jifty->web->navigation;
        $top->child( 'Choices' => url => '/choices' );
    elsif ($1 !~ /^login | ^signup/) {
        tangent 'login';
# on '/'
                 => show '/';
```

```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;
before '*' => run {
    if (Jifty->web->current_user->id) {
       my $top = Jifty->web->navigation;
       $top->child( 'Choices' => url => '/choices' );
    elsif ($1 !~ /^login|^signup/) {
       tangent 'login';
};
# on '/' => show '/';
# on '/choices' => show 'choices';
```

Something's not quite right

Hiya, JesseVincent.

HOME CHOICES LOGOUT

Welcome back, JesseVincent.



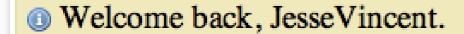
You got to a page that we don't think exists. Anyway, the software has logged this error. Sorry about this.

ERROR - 404: User tried to get to /

Something's not quite right

Hiya, JesseVincent.

HOME CHOICES LOGOUT





You got to a page that we don't think exists. Anyway, the software has logged this error. Sorry about this.

ERROR - 404: User tried to get to /

Now we should fill in the "/" view.

\$ vim lib/Doxory/View.pm

\$ vim lib/Doxory/View.pm



```
package Doxory::View;
use Jifty::View::Declare -base;
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page {
    h1 { 'Ask a question!' }
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};

private template new_choice => sub {
    div { form {
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};

private template new_choice => sub {
    div { form {
        my $action = new_action( class => 'CreateChoice' );
    }
}
```

```
package Doxory::View;
use Jifty::View::Declare -base;

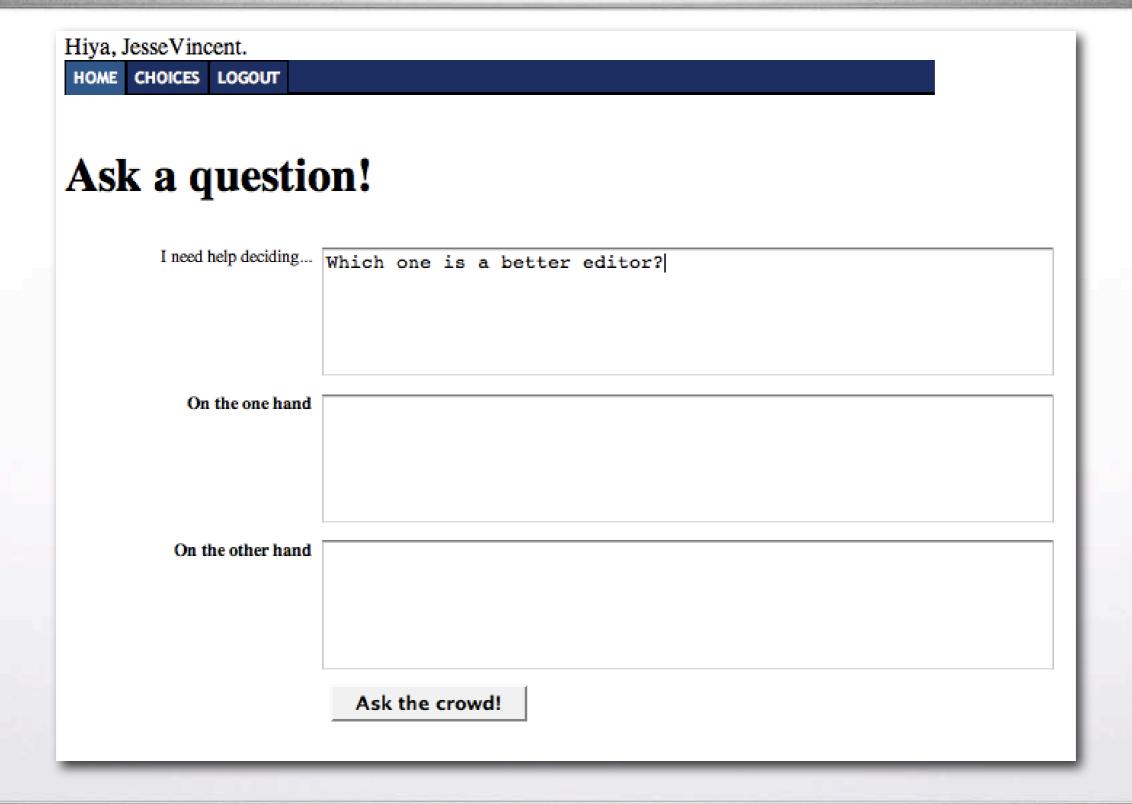
template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};

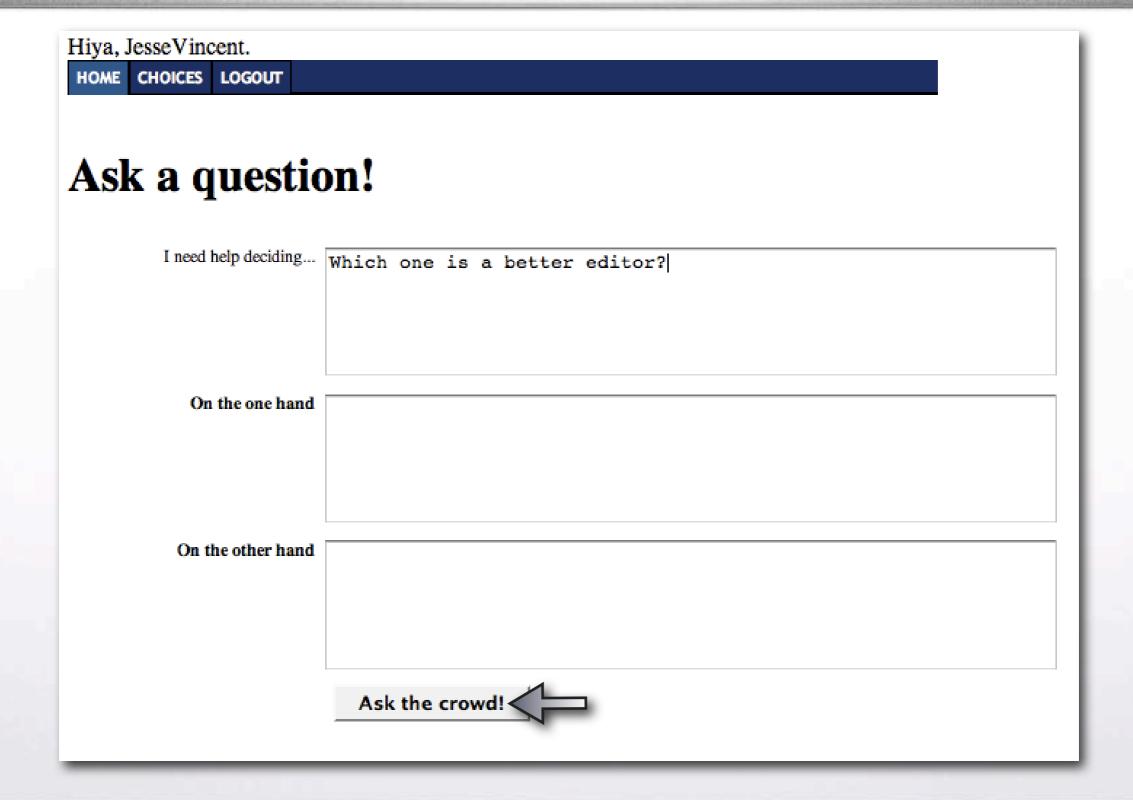
private template new_choice => sub {
    div { form {
        my $action = new_action( class => 'CreateChoice' );
        render_action( $action => ['name', 'a', 'b'] );
    }
}
```

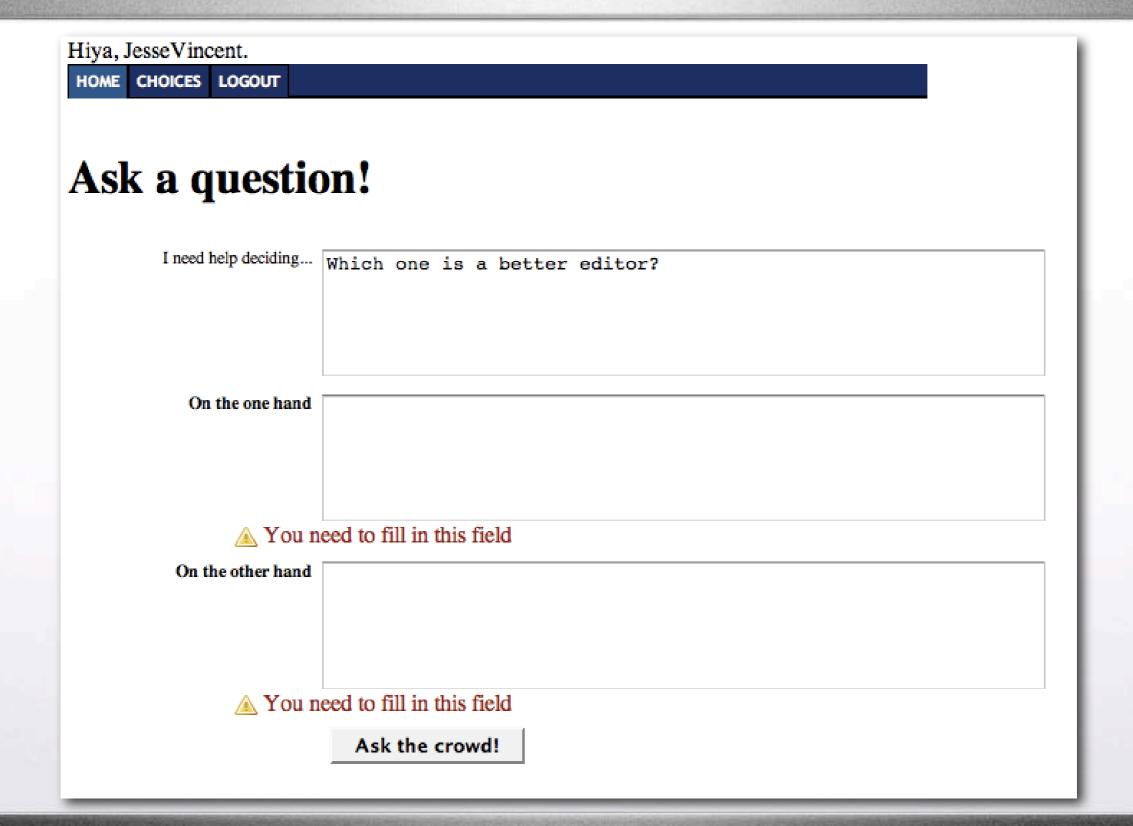
```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};
private template new_choice => sub {
    div { form {
        my $action = new_action( class => 'CreateChoice' );
        render_action( $action => ['name', 'a', 'b'] );
        form submit( label => 'Ask the Crowd!' );
```

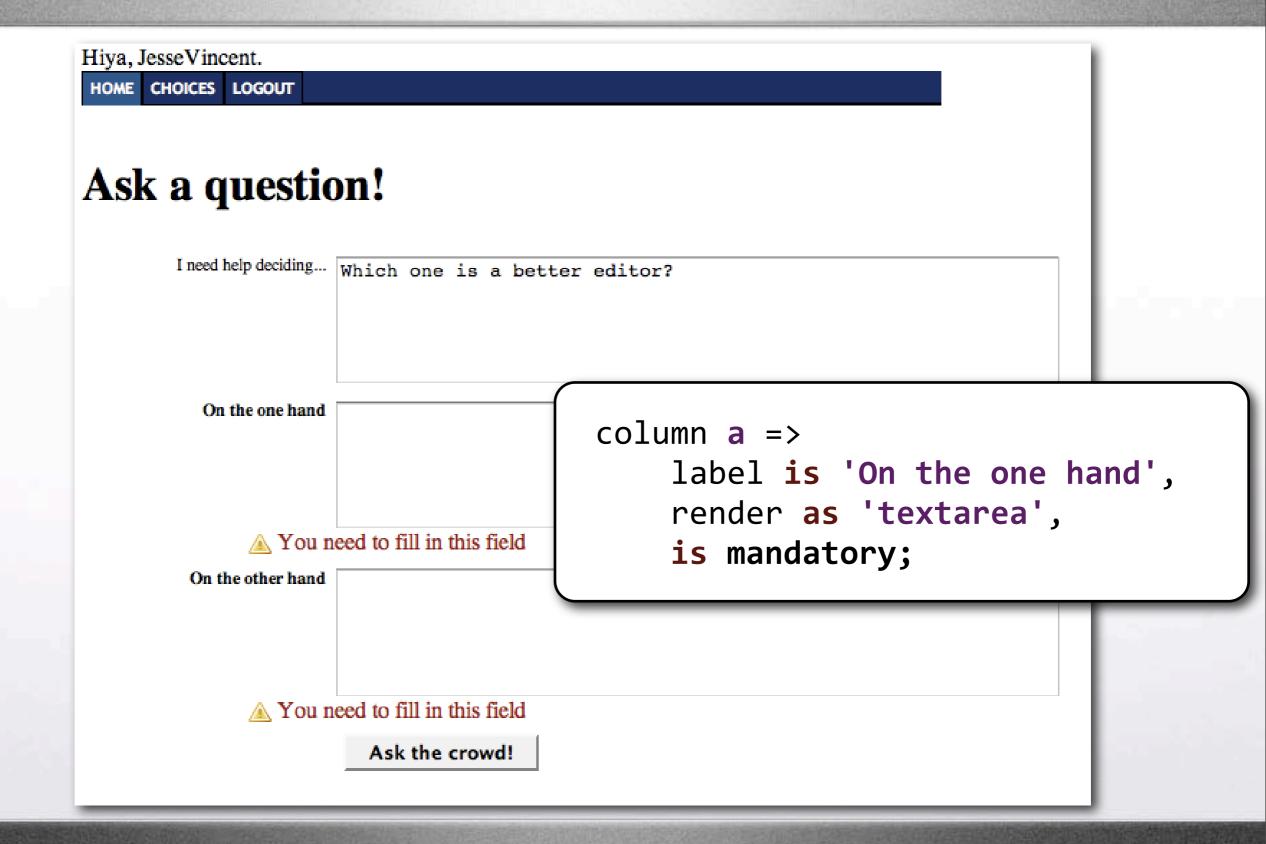
```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};
private template new_choice => sub {
    div { form {
        my $action = new_action( class => 'CreateChoice' );
        render_action( $action => ['name', 'a', 'b'] );
        form submit( label => 'Ask the Crowd!' );
    } }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page {
    h1 { 'Ask a question!' }
    show 'new_choice';
};
private template new_choice => sub {
    div { form {
        my $action = new_action( class => 'CreateChoice' );
        render_action( $action => ['name', 'a', 'b'] );
        form submit( label => 'Ask the Crowd!' );
    } }
```









Hiya, JesseVincent. HOME CHOICES LOGOUT

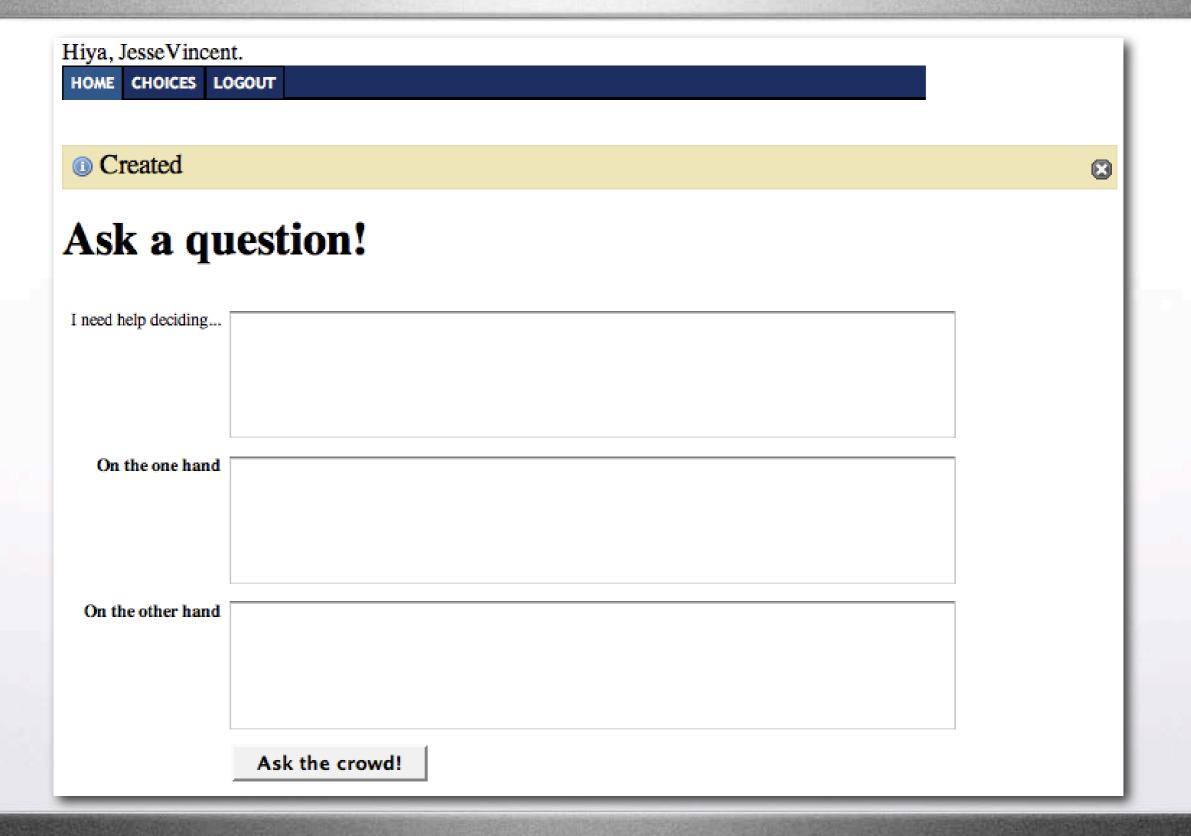
Ask a question!

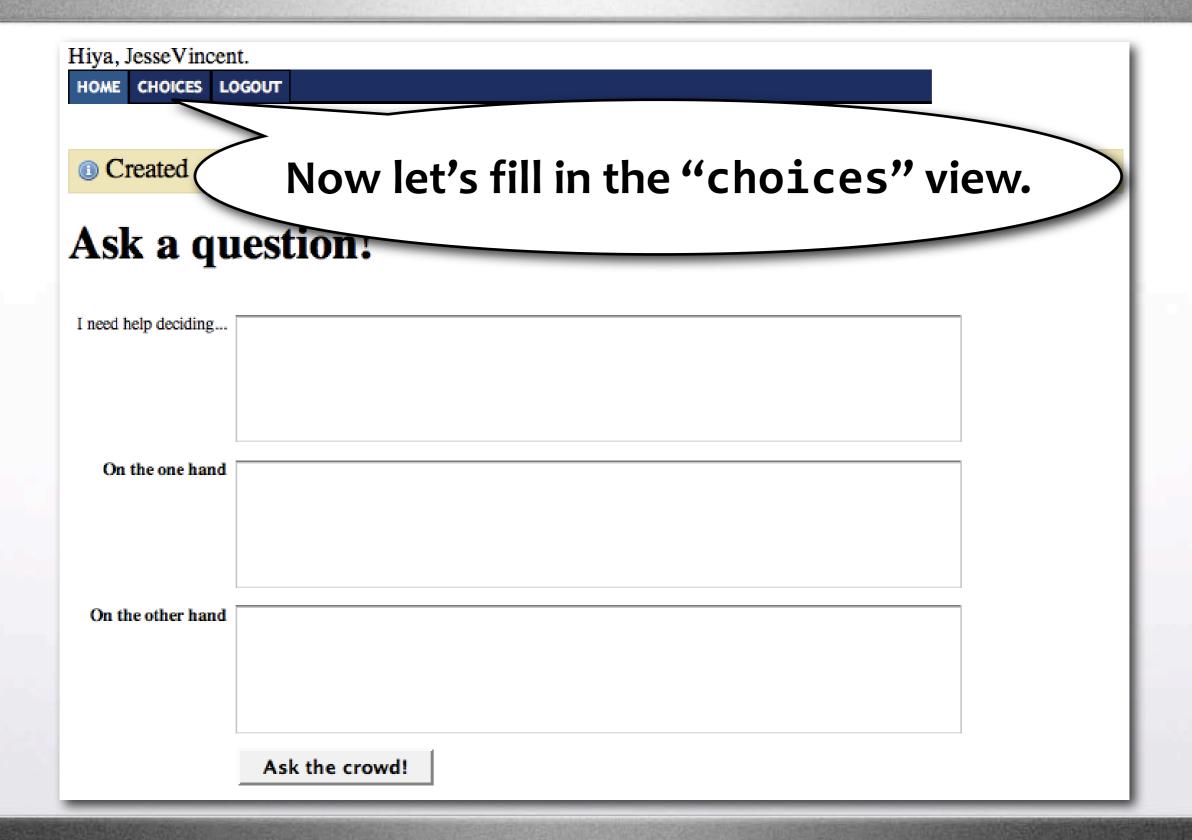
I need help deciding	Which one is a better editor?
On the one hand	Vim
,	V I III
A You no	eed to fill in this field
On the other hand	Emacs
A You no	eed to fill in this field
	Ask the crowd!

Hiya, JesseVincent. HOME CHOICES LOGOUT

Ask a question!

I need help deciding	Which one is a better editor?
On the one hand	** * · ·
On the one nanu	Vim
🛕 You n	eed to fill in this field
On the other hand	Emacs
	ElitaCS
A You n	eed to fill in this field
	Ask the crowd!
	ASK the crowd!





```
package Doxory::View;
use Jifty::View::Declare -base;
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page { ... };
private template new_choice => sub { ... };
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page { ... };
private template new_choice => sub { ... };
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page { ... };
private template new_choice => sub { ... };

template choices => page {
    h1 { 'My Choices' }
    d1 {
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page { ... };
private template new_choice => sub { ... };

template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
```

```
package Doxory::View;
use Jifty::View::Declare -base;

template '/' => page { ... };
private template new_choice => sub { ... };

template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        );
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current_user->id,
        );
        while (my $c = $choices->next) {
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked by',
            value => Jifty->web->current user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked by->name, ')' }
            dd { b { $c->a } em { 'vs' } b { $c->b } }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked by',
            value => Jifty->web->current user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked by->name, ')' }
            dd { b { $c->a } em { 'vs' } b { $c->b } }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked by',
            value => Jifty->web->current_user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked by->name, ')' }
            dd { b { $c->a } em { 'vs' } b { $c->b } }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template '/' => page { ... };
private template new_choice => sub { ... };
template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current_user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked by->name, ')' }
            dd { b { $c->a } em { 'vs' } b { $c->b } }
```

Hiya, JesseVincent.

HOME CHOICES LOGOUT

My Choices

Which one is a better editor? (JesseVincent) Vim vs Emacs

Hiya, JesseVincent.

HOME CHOICES LOGOUT

My Choices

Which one is a better editor? (JesseVincent)

Vim vs Emacs

Wait... How do we vote on this?



\$ jifty model --name Vote

\$ jifty model --name Vote
Writing file t/00-model-Vote.t
Writing file lib/Doxory/Model/Vote.pm

```
$ jifty model --name Vote
Writing file t/00-model-Vote.t
Writing file lib/Doxory/Model/Vote.pm
```

\$ vim lib/Doxory/Model/Vote.pm

```
package Doxory::Model::Vote;
use Jifty::DBI::Schema;
use Doxory::Record schema {
column choice =>
    references Doxory::Model::Choice;
column voter =>
    references Doxory::Model::User;
column suggestion =>
    valid are qw( a b skip );
column comments =>
    label is 'Comments?',
    render as 'textarea';
};
```

ADMINISTRATION	
CHOICE USER VOTE	
Manage records:	Vote

Toggle search No items found			
choice	voter	suggestion	
What's the best editor?	AudreyT	skip <u></u>	
Comments?			
I'll skip this quest	ion myself	•	
Create			

ADMINISTRATION
CHOICE | USER | VOTE

Manage records: Vote

Toggle search			
No items found			
choice	voter	suggestion	
What's the best editor? ▼	AudreyT <u>▼</u>	skip 🔽	
Comments?			
I'll skip this question	on myself	•	

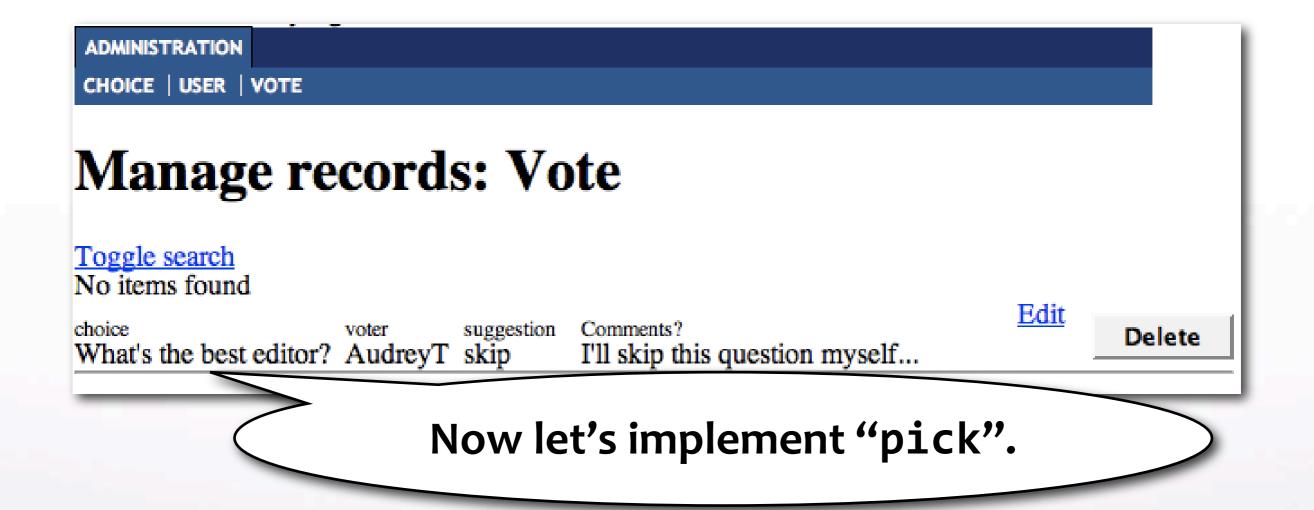


ADMINISTRATION CHOICE | USER | VOTE

Manage records: Vote

Toggle search
No items found

suggestion Comments? choice voter What's the best editor? AudreyT skip I'll skip this question myself... Edit Delete



```
package Doxory::Dispatcher;
use Jifty::Dispatcher -base;
before '*' => run {
    if (Jifty->web->current_user->id) {
        my $top = Jifty->web->navigation;
        $top->child( 'Pick!' => url => '/pick' );
        $top->child( 'Choices' => url => '/choices' );
    elsif ($1 !~ /^login | ^signup/) {
        tangent 'login';
};
on '/' => show 'new_choice';
```

package Doxory::Dispatcher; on pick => run { my \$choices = Doxory::Model::ChoiceCollection->new; my \$votes = \$choices->join(type => 'left', alias1 => 'main', column1 => 'id', table2 => 'votes', column2 => 'choice',); \$choices->limit(leftjoin => \$votes, column => 'voter', => Jifty->web->current user->id, value); \$choices->limit(=> \$votes, column => 'voter', alias operator => 'IS', value => 'NULL',); if (my \$c = \$choices->first) { set choice => \$c; else { show 'nothing_to_pick';

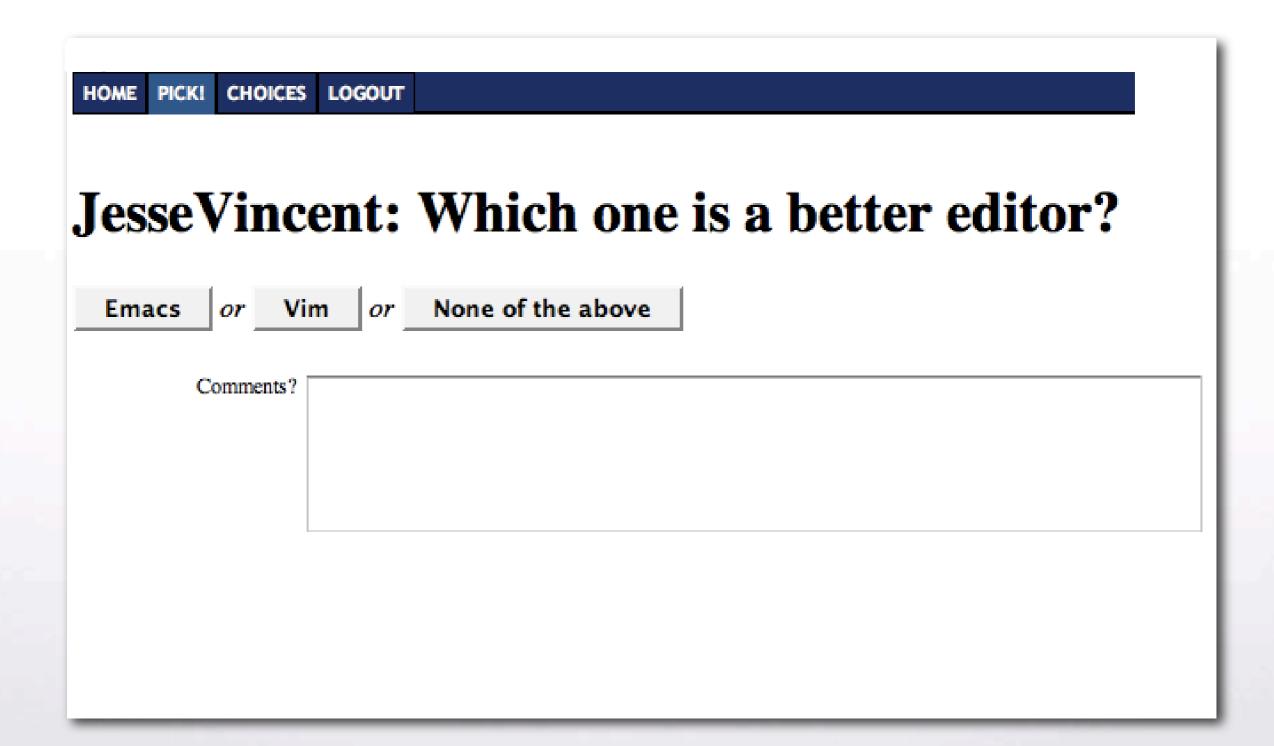
```
package Doxory::Dispatcher;
on pick => run {
   my $choices = Doxory::Model::ChoiceCollection->new;
   my $votes = $choices->join(
       type => 'left',
       alias1 => 'main', column1 => 'id',
       table2 => 'votes', column2 => 'choice',
    );
   $choices->limit(
       leftjoin => $votes, column => 'voter',
                => Jifty->web->current user->id,
       value
    );
   $choices->limit(
                => $votes, column => 'voter',
       alias
       operator => 'IS', value => 'NULL',
    );
    if (my $c = $choices->first) {
       set choice => $c;
                              "1st choice I've not voted on"
    else {
        show 'nothing_to_pick';
```

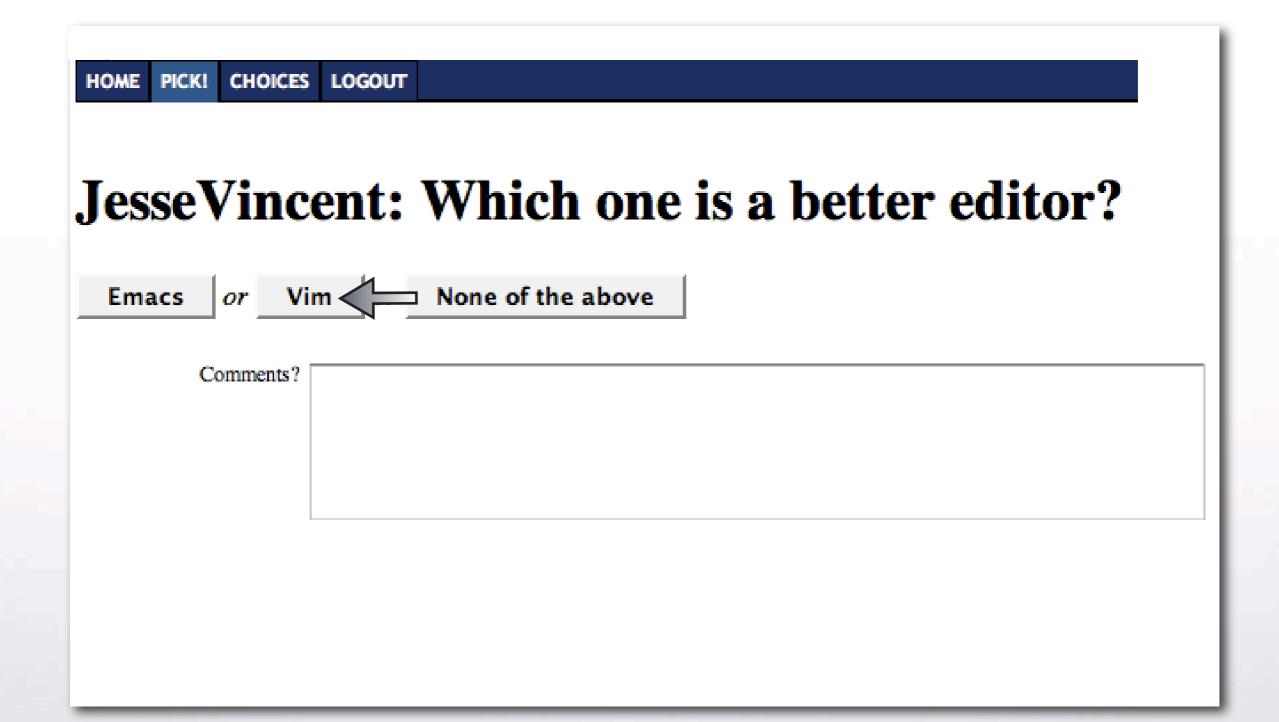
```
package Doxory::View;
use Jifty::View::Declare -base;
template '' => page { ... };
private template choices => sub { ... };
template pick => page {
   my $choice = get('choice');
   my $action = new_action( class => 'CreateVote' );
   my $redir = new_action(
       class => "Jifty::Action::Redirect",
       arguments => { url => '/pick' },
    );
   my %args = (
       choice => $choice->id,
       voter => Jifty->web->current_user->id,
    );
    h1 { $choice->asked_by->name, ': ', $choice->name }
   div { form {
       my ($x, $y) = map { $action->button(}
           submit => [ $action, $redir ],
           label => $choice->$_,
           arguments => { suggestion => $_, %args },
       ) } ((rand > 0.5) ? ('a', 'b') : ('b', 'a'));
       span { $x } em { 'or' } span { $y } em { 'or' } span {
           $action->button(
               submit => [ $action, $redir ],
               label => 'None of the above',
               arguments => { suggestion => 'skip', %args },
           );
       p { render_param( $action => 'comments' ) };
   } }
```

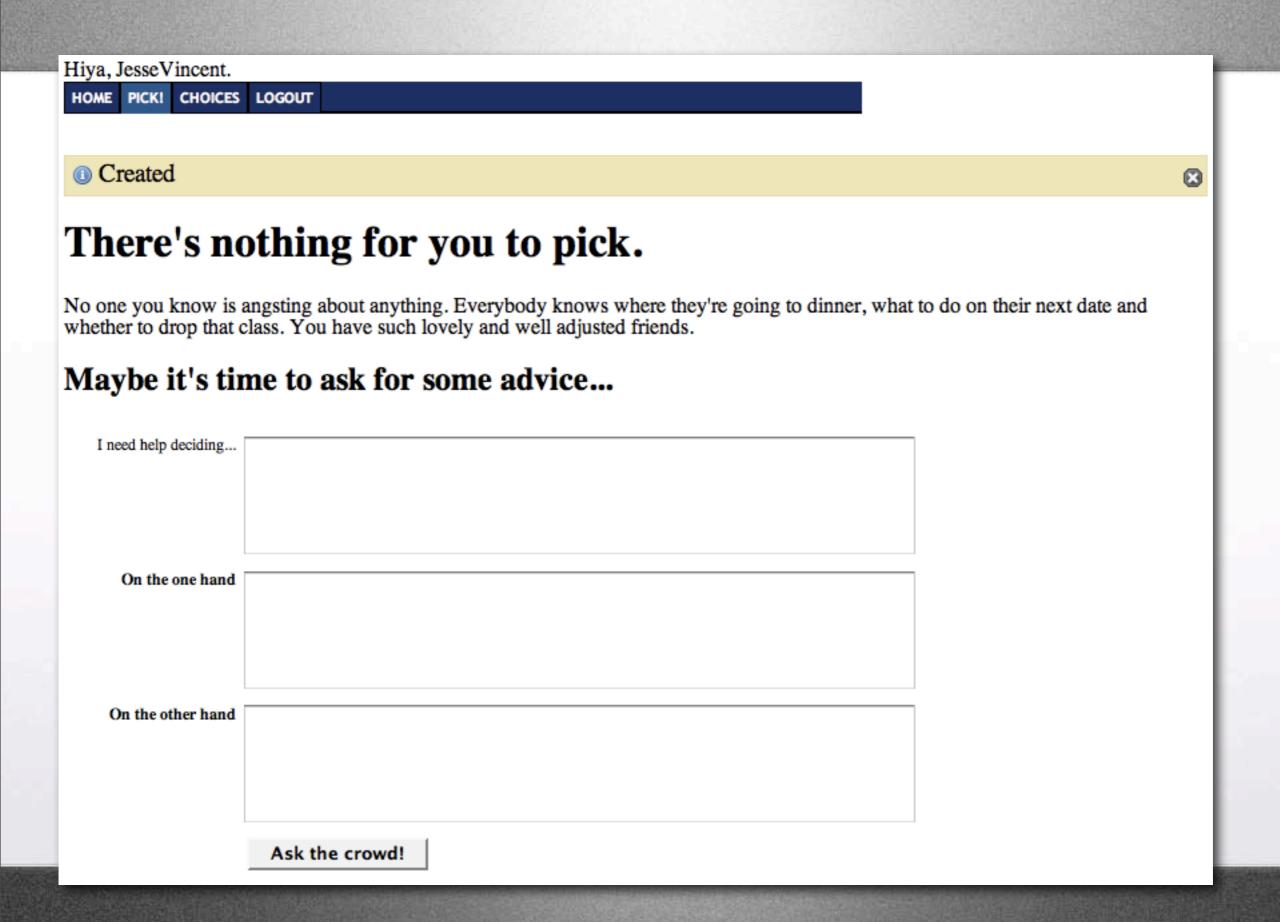
```
package Doxory::View;
use Jifty::View::Declare -base;
template '' => page { ... };
private template new_choice => sub { ... };
template choices => page { ... };
template pick => page { ... };
template nothing_to_pick => page {
    h1 { "There's nothing for you to pick." }
    p { "No one you know is angsting about anything.
         Everybody knows where they're going to dinner,
         what to do on their next date and whether to
         drop that class. You have such lovely and
         well adjusted friends." }
    h2 { "Maybe it's time to ask for some advice..." };
    show 'new_choice';
```

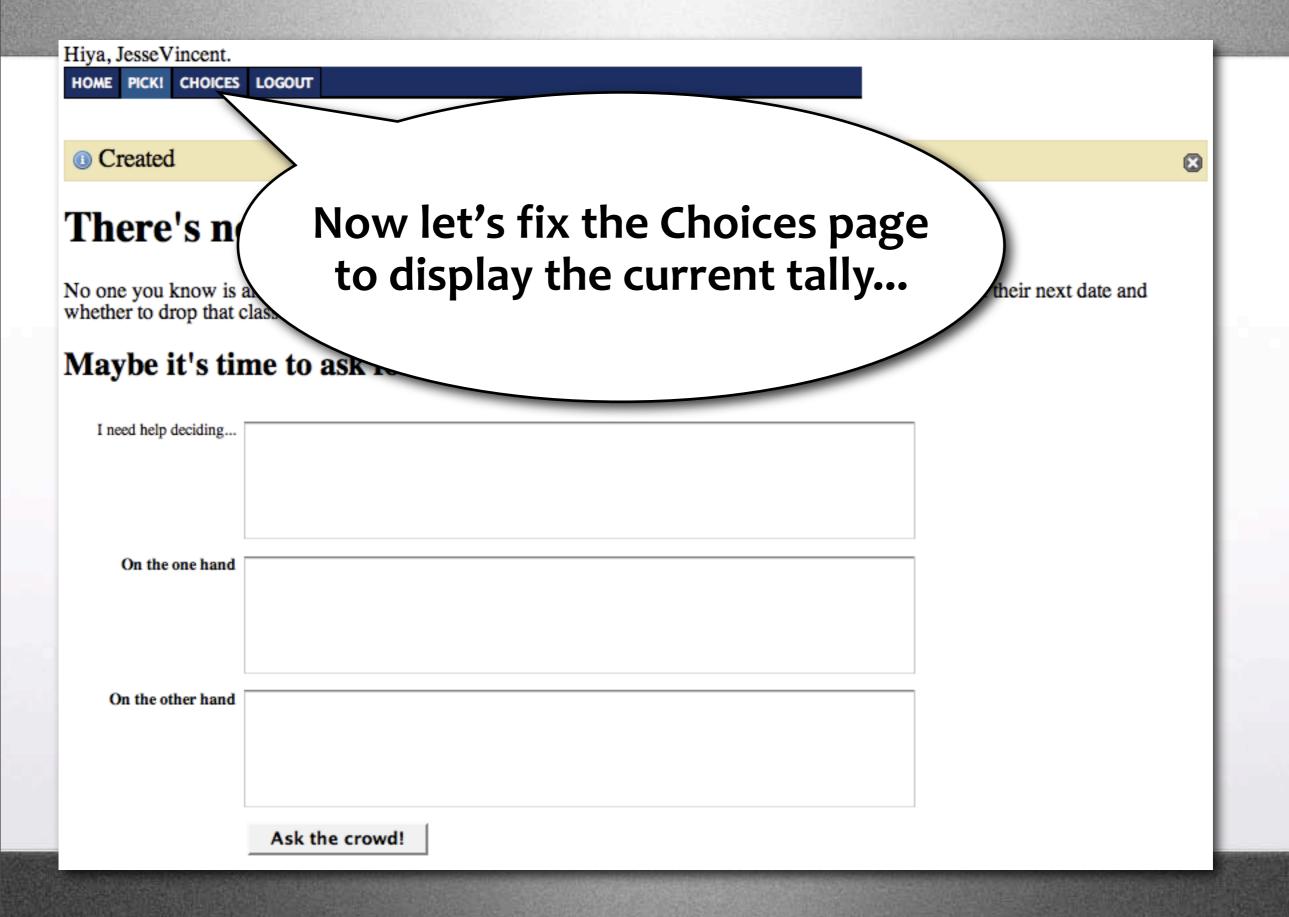


Vim	or Emacs	or	None of the above	
	Comments?			









```
package Doxory::Model::Choice;
use Jifty::DBI::Schema;
use Doxory::Record schema { ... }
sub in favor of a {
    my $self = shift;
    $self->in_favor_of('a');
sub in_favor_of_b {
    my $self = shift;
    $self->in favor of('b');
sub in favor of {
    my (\$self, \$x) = @_;
    my $votes = Doxory::Model::VoteCollection->new;
    $votes->limit(column => 'choice', value => $self->id);
    $votes->limit(column => 'suggestion', value => $x);
    return $votes;
```





```
package Doxory::View;
use Jifty::View::Declare -base;
```

```
package Doxory::View;
use Jifty::View::Declare -base;
...
```

```
package Doxory::View;
use Jifty::View::Declare -base;
...
template choices => page {
   h1 { 'My Choices' }
   d1 {
```

```
package Doxory::View;
use Jifty::View::Declare -base;
...
template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
```

```
package Doxory::View;
use Jifty::View::Declare -base;
...
template choices => page {
    h1 { 'My Choices' }
    d1 {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        );
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')
                em { 'vs' }
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')'
                em { 'vs' }
                b { $c->b, ' (', $c->in_favor_of_b->count, ')'
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')'
                em { 'vs' }
                b { $c->b, ' (', $c->in_favor_of_b->count, ')'
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')'
                em { 'vs' }
                b { $c->b, ' (', $c->in_favor_of_b->count, ')'
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked_by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')'
                em { 'vs' }
                b { $c->b, ' (', $c->in_favor_of_b->count, ')'
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')'
                em { 'vs' }
                b { $c->b, ' (', $c->in_favor_of_b->count, ')'
```

```
package Doxory::View;
use Jifty::View::Declare -base;
template choices => page {
    h1 { 'My Choices' }
    dl {
        my $choices = Doxory::Model::ChoiceCollection->new;
        $choices->limit(
            column => 'asked_by',
            value => Jifty->web->current user->id,
        while (my $c = $choices->next) {
            dt { $c->name, ' (', $c->asked by->name, ')' }
            dd {
                b { $c->a, ' (', $c->in_favor_of_a->count, ')
                em { 'vs' }
                b { $c->b, ' (', $c->in_favor_of_b->count, ')'
```

Hiya, JesseVincent.

HOME PICK! CHOICES LOGOUT

My Choices

Which one is a better editor? (JesseVincent)
Vim (1) vs Emacs (0)



lib/Doxory/Model/User.pm

lib/Doxory/Model/User.pm

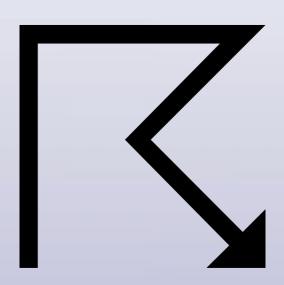
lib/Doxory/Model/Choice.pm

lib/Doxory/Model/User.pm
 lib/Doxory/Model/Choice.pm
 lib/Doxory/Model/Vote.pm

Iib/Doxory/Model/User.pm
Iib/Doxory/Model/Choice.pm
Iib/Doxory/Model/Vote.pm
Iib/Doxory/Dispatcher.pm

 lib/Doxory/Model/User.pm lib/Doxory/Model/Choice.pm lib/Doxory/Model/Vote.pm lib/Doxory/Dispatcher.pm lib/Doxory/View.pm

 lib/Doxory/Model/User.pm lib/Doxory/Model/Choice.pm lib/Doxory/Model/Vote.pm lib/Doxory/Dispatcher.pm lib/Doxory/View.pm



Banning profanity

- **Banning profanity**
- **To protect the children**

Ranning profanityTo protect the children∴ ...from the internet

No problem

- No problem
- Back to the code!

- No problem
- Back to the code!
- lib/Doxory/Model/Choice.pm

package Doxory::Model::Choice;

```
package Doxory::Model::Choice;
use Regexp::Common 'profanity_us';
```

```
package Doxory::Model::Choice;
use Regexp::Common 'profanity_us';
sub validate_name {
   my ($self, $name) = @_;
```

```
package Doxory::Model::Choice;
use Regexp::Common 'profanity_us';
sub validate name {
   my (\$self, \$name) = @;
   if ($name =~ /$RE{profanity}/i) {
       return (
           0, 'Would you speak like that '.
              'in front of your mother? *cough*'
```

```
package Doxory::Model::Choice;
use Regexp::Common 'profanity_us';
sub validate name {
   my (\$self, \$name) = @;
   if ($name =~ /$RE{profanity}/i) {
       return (
           0, 'Would you speak like that '.
               'in front of your mother? *cough*'
       );
   return 1;
```

Hiya, JesseVincent. HOME PICK! CHOICES LOGOUT Ask a question! I need help deciding... I'm in deep shit if NSA finds out about this... ▲ Would you speak like that in front of your mother? *cough* On the one hand On the other hand Ask the crowd!

Not good enough

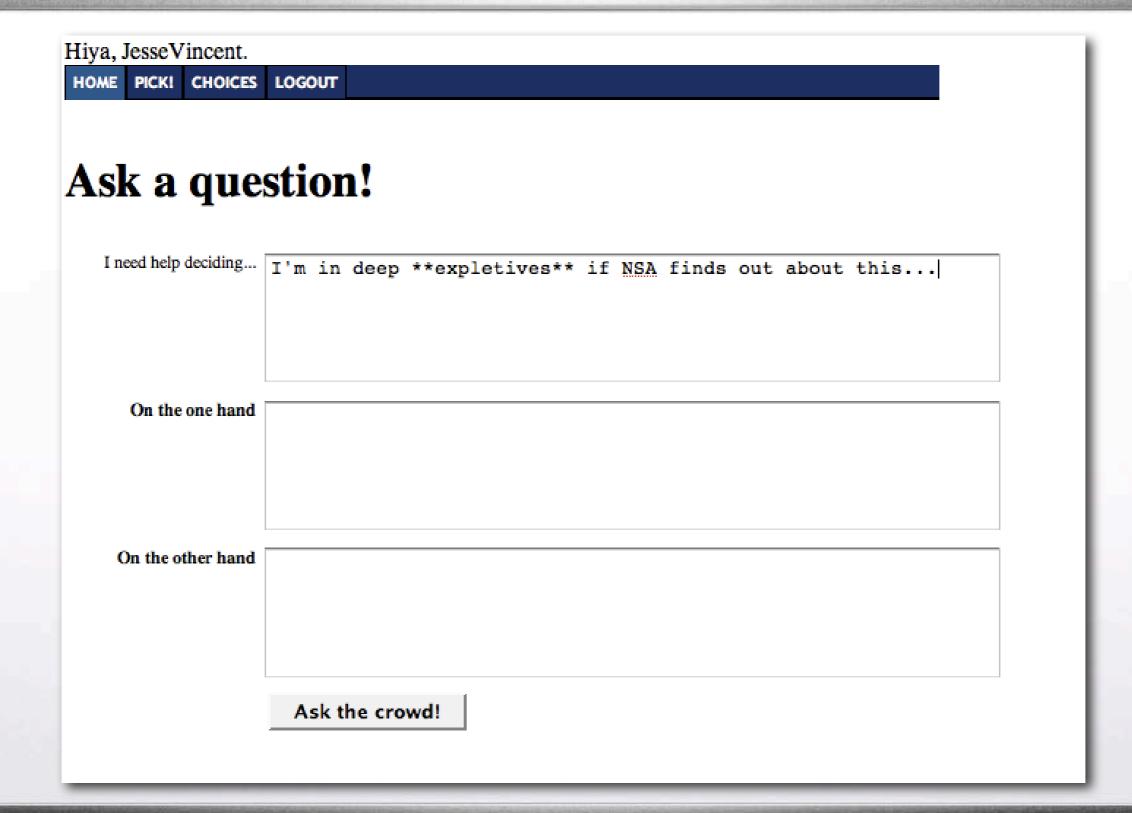
- Not good enough
- Stops people asking questions

- Not good enough
- Stops people asking questions
- Let's clean it up directly!

```
package Doxory::Model::Choice;
use Regexp::Common 'profanity_us';

sub canonicalize_name {
    my ($self, $name) = @_;

    $name =~ s/$RE{profanity}/**expletives**/gi;
    return $name;
}
```



R Part of the model

- Part of the model
- Same for autocompleters

- Part of the model
- Same for autocompleters
- R Now we're done!



Development Tools

Development Tools

∀ Standalone Server

Development Tools

∀ Standalone Server

∀ Module::Install

Development Tools

- **∀** Standalone Server
- ∀ Module::Install
- **∀** PAR Distribution

```
/autohandler - 0.122 Edit
  / elements/nav - 0 Edit
  /edit - 0.099 Edit
     elements/page nav - 0.001 Edit
     elements/wrapper - 0.095 Edit
     / elements/header - 0.001 Edit
       / elements/javascript - 0 Edit
     / elements/sidebar - 0.074 Edit
       / elements/menu - 0.072 Edit
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.033
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
           / elements/menu:.menu - 0.001
     / elements/markup - 0 Edit
```

∀ View Tracing

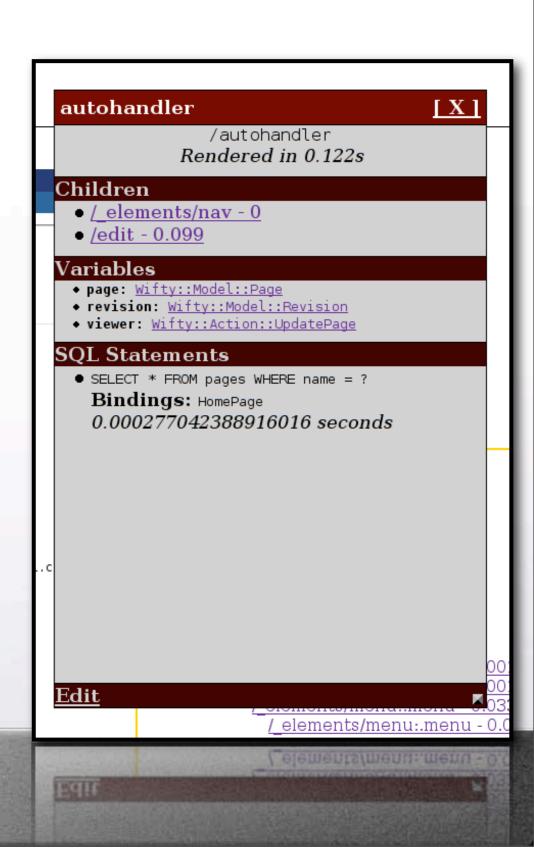
```
/autohandler - 0.122 Edit
 / elements/nav - 0 Edit
 /edit - 0.099 Edit
     elements/page nav - 0.001 Edit
     elements/wrapper - 0.095 Edit
     / elements/header - 0.001 Edit
       / elements/javascript - 0 Edit
     / elements/sidebar - 0.074 Edit
        elements/menu - 0.072 Edit
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.033
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
     / elements/markup - 0 Edit
```

∀ View Tracing∀ Online Editing

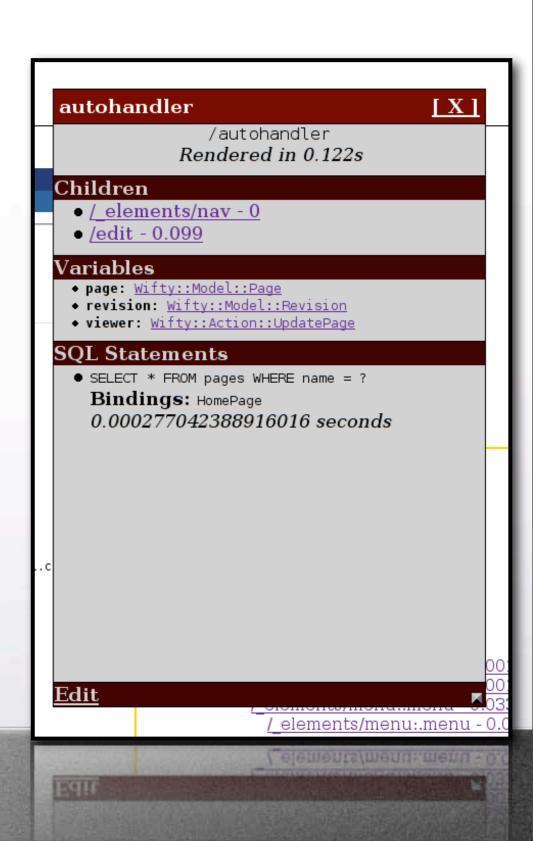
```
/autohandler - 0.122 Edit
  / elements/nav - 0 Edit
  edit - 0.099 Edit
     elements/page nav - 0.001 Edit
     elements/wrapper - 0.095 Edit
     / elements/header - 0.001 Edit
        elements/javascript - 0 Edit
     / elements/sidebar - 0.074 Edit
        elements/menu - 0.072 Edit
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.033
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
     / elements/markup - 0 Edit
```

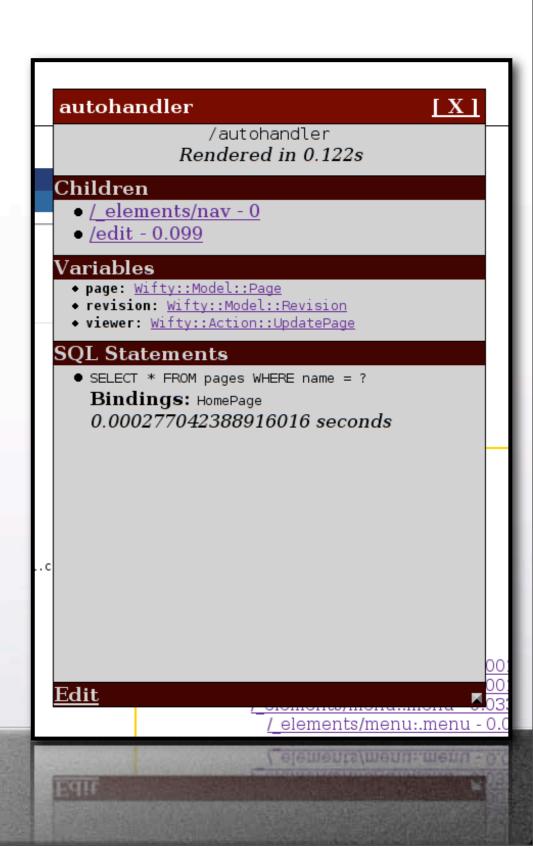
∀ View Tracing∀ Online Editing∀ …and more!

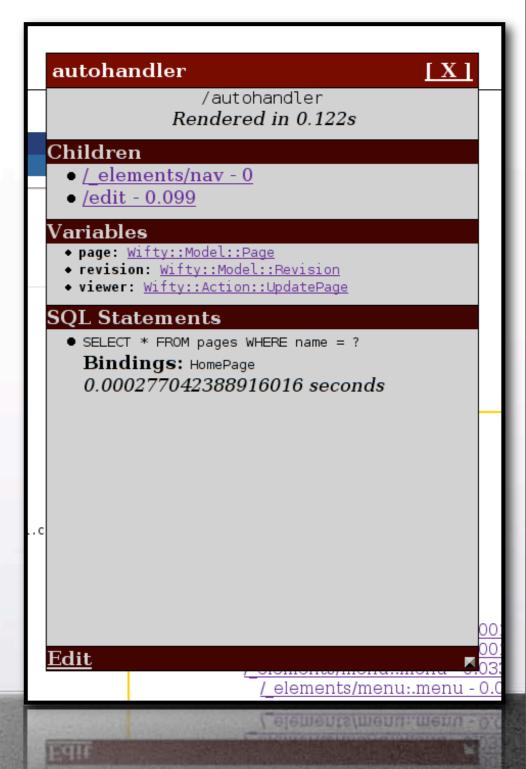
```
/autohandler - 0.122 Edit
 / elements/nav - 0 Edit
 edit - 0.099 Edit
     elements/page nav - 0.001 Edit
     elements/wrapper - 0.095 Edit
     / elements/header - 0.001 Edit
        elements/javascript - 0 Edit
     / elements/sidebar - 0.074 Edit
        elements/menu - 0.072 Edit
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.001
          elements/menu:.menu - 0.033
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
            elements/menu:.menu - 0.001
     / elements/markup - 0 Edit
```



∀ SQL Logging







∀ Module::Refresh

∀ Tracing with Log4Perl

- **∀** Tracing with Log4Perl
- **∀** Administrative Console

∀ Lighttpd / Apache

∀ Lighttpd / Apache

∀ Fast Static Server

- **∀** Lighttpd / Apache
- **∀** Fast Static Server
- ∀ CSS::Squish, JS::Squish

∀ Comprehensive I18N

∀ Comprehensive I18N

∀ Client-Side Sessions

- **∀** Comprehensive I18N
- **∀** Client-Side Sessions
- **∀** Events and Subscriptions



Wiki-style UI Editor

- Wiki-style UI Editor
- +> Even less code

- Wiki-style UI Editor
- +> Even less code
- +> "Jifty in a Jiffy" MTVs

Wifty

- + Wifty
- + CommitBit

- + Wifty
- + CommitBit
- + Babelbee

- + Wifty
- + CommitBit
- + Babelbee
- +> Ping / Chat / Clock

Get Jifty

Get Jifty

+ cpan Jifty

Get Jifty

- + cpan Jifty
- -> svn.jifty.org/svn/jifty.org

Get Jifty

- + cpan Jifty
- svn.jifty.org/svn/jifty.org
- http://jifty.org/

Jifty::Manual::Tutorial

- >> Jifty::Manual::Tutorial
- +> irc.freenode.net #jifty

- +> Jifty::Manual::Tutorial
- +> irc.freenode.net #jifty
- +> jifty-devel@lists.jifty.org

That Demo App..

That Demo App..

http://fsck.com/~audreyt/
DoxoryDemo.tgz

Thank you!



B01115

Sides



© Model: Columns

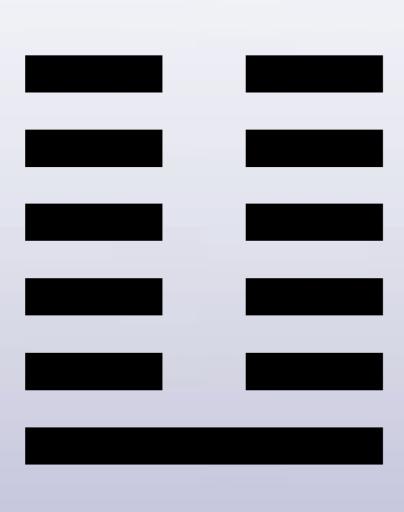
- © Model: Columns
- © Action: Parameters

- © Model: Columns
- © Action: Parameters
- © Template: Fragments

© Dispatcher

- © Dispatcher
- © ClassLoader

- © Dispatcher
- © ClassLoader
- © Continuations



Ø CREATE TABLE

- Ø CREATE TABLE
- Ø ALTERTABLE

- Ø CREATE TABLE
- Ø ALTERTABLE
- Ø CREATE FOREIGN KEY

Ø SELECT

Ø SELECT

Ø INSERT

Ø SELECT Ø UPDATE

Ø INSERT

SELECTUPDATEINSERTDELETE







SQLite



Postgres

SQLite

III MySQL

Postgres

Oracle

Jifty::DBI::Collection

Jifty::DBI::Collection

II Joins and Limits

Jifty::DBI::Collection

Joins and Limits

Paging = Data::Page

Jifty::DBI::Collection

- **Joins and Limits**
- Paging = Data::Page
- **Laching = Memcached**

Declarative Columns

- **Declarative Columns**
- E Remember our Doxory?

- **Declarative Columns**
- **Remember our Doxory?**
- Time for 0.0.2!

```
package Doxory::Model::Comment;
use Jifty::DBI::Schema;
use Doxory::Record schema {
    since '0.0.2';
```

```
package Doxory::Model::Comment;
use Jifty::DBI::Schema;
use Doxory::Record schema {
    since '0.0.2';

column User => refers to Doxory::Model:User;
    column author => refers to Doxory::Model::User;
```

```
package Doxory::Model::Comment;
use Jifty::DBI::Schema;
use Doxory::Record schema {
since '0.0.2';
column User => refers to Doxory::Model:User;
column author => refers to Doxory::Model::User;
column body =>
   label is 'Content',
  type is 'Text',
   render as 'Textarea',
   default is 'First Post!';
```

```
package Doxory::Model::Comment;
use Jifty::DBI::Schema;
use Doxory::Record schema {
since '0.0.2';
column User => refers to Doxory::Model:User;
column author => refers to Doxory::Model::User;
column body =>
   label is 'Content',
  type is 'Text',
   render as 'Textarea',
   default is 'First Post!';
column title =>
   is mandatory,
   label is 'Title',
   length is 40,
   hints is '40 bytes max';
```

```
package Doxory::Model::Comment;
use Jifty::DBI::Schema;
use Doxory::Record schema {
since '0.0.2';
column User => refers to Doxory::Model:User;
column author => refers to Doxory::Model::User;
column body =>
   label is 'Content',
  type is 'Text',
   render as 'Textarea',
   default is 'First Post!';
column title =>
   is mandatory,
   label is 'Title',
   length is 40,
   hints is '40 bytes max';
};
```

Used to be painful

- **Used to be painful**
- **II** Not anymore

- **Used to be painful**
- **II** Not anymore
- II Jifty fixed it!

\$ vim etc/config.yml

\$ jifty server

\$ jifty server

Application schema version in database (v0.0.1) doesn't match application schema version (0.0.2) Please run `bin/jifty schema --setup` to upgrade the database.

\$ jifty server

Application schema version in database (v0.0.1) doesn't match application schema version (0.0.2) Please run `bin/jifty schema --setup` to upgrade the database.

\$ jifty schema --setup

\$ jifty server

Application schema version in database (v0.0.1) doesn't match application schema version (0.0.2) Please run `bin/jifty schema --setup` to upgrade the database.

\$ jifty schema --setup

Jifty version 0.605070 up to date.

INFO - Generating SQL to upgrade Doxory
 v0.0.1 database to v0.0.2

INFO - Upgraded to version v0.0.2

\$ jifty server

Application schema version in database (v0.0.1) doesn't match application schema version (0.0.2) Please run `bin/jifty schema --setup` to upgrade the database.

\$ jifty schema --setup

Jifty version 0.605070 up to date.

INFO - Generating SQL to upgrade Doxory
 v0.0.1 database to v0.0.2

INFO - Upgraded to version v0.0.2

\$ jifty server

\$ jifty server

Application schema version in database (v0.0.1) doesn't match application schema version (0.0.2) Please run `bin/jifty schema --setup` to upgrade the database.

\$ jifty schema --setup

Jifty version 0.605070 up to date.

INFO - Generating SQL to upgrade Doxory
 v0.0.1 database to v0.0.2

INFO - Upgraded to version v0.0.2

\$ jifty server

INFO - You can connect to your server at http://localhost:8888/

```
column tags =>
   since '0.0.3',
   refers to Doxory::Model::TagCollection by 'User';
```

```
column tags =>
    since '0.0.3',
    refers to Doxory::Model::TagCollection by 'User';

column mood =>
    since '0.0.4',
    default is 'happy',
    valid are
        { display => 'Sad', value => 'sad' },
        { display => 'Happy', value => 'happy' };
```

```
column tags =>
   since '0.0.3',
   refers to Doxory::Model::TagCollection by 'User';
column mood =>
   since '0.0.4',
  default is 'happy',
  valid are
       { display => 'Sad', value => 'sad' },
       { display => 'Happy', value => 'happy' };
column created =>
   since '0.0.5',
   is immutable,
   type is 'timestamp',
   default is literal 'now()',
   filters are 'Jifty::DBI::Filter::DateTime';
```

\$ vim etc/config.yml

\$ jifty schema --setup

\$ jifty schema --setup
Jifty version 0.605070 up to date.
INFO - Generating SQL to upgrade Doxory
 v0.0.2 database to v0.0.5

INFO - Upgraded to version v0.0.5

\$ jifty server

\$ jifty schema --setup

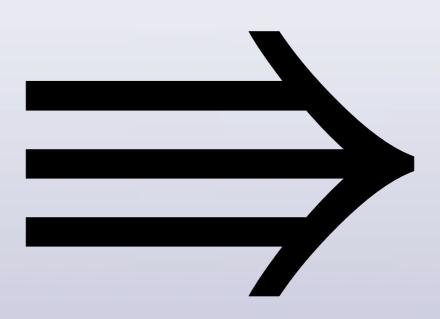
Jifty version 0.605070 up to date.

INFO - Generating SQL to upgrade Doxory
 v0.0.2 database to v0.0.5

INFO - Upgraded to version v0.0.5

\$ jifty server

INFO - You can connect to your server at http://localhost:8888/



⇒ Method Calls

- ⇒ Method Calls
- ⇒ Typed named arguments

- ⇒ Method Calls
- ⇒ Typed named arguments
- **⇒** Returns results or errors

⇒ Many actions on one page

- ⇒ Many actions on one page
- **⇒** Called with web forms

- ⇒ Many actions on one page
- ⇒ Called with web forms
- **⇒** Sounds like RPC?

⇒ Web form encoding

- ⇒ Web form encoding
- ⇒ XML/YAML encoding

- ⇒ Web form encoding
- ⇒ XML/YAML encoding
- ⇒ Web services for free!

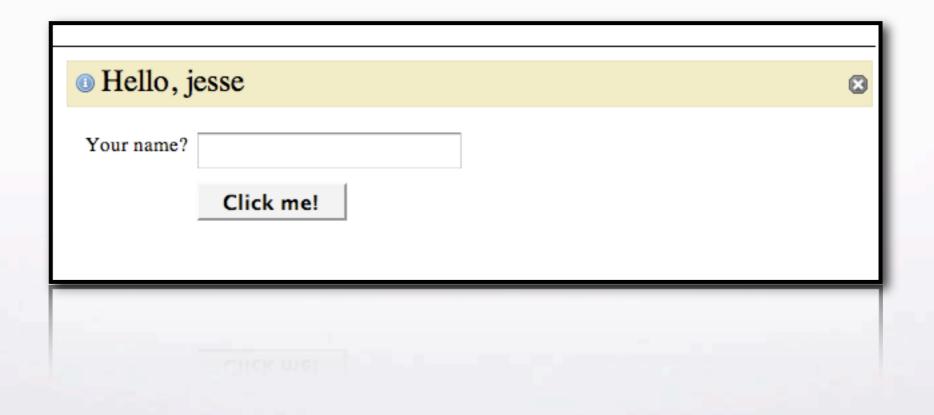
⇒ Doxory::Action::CreateUser

- ⇒ Doxory::Action::CreateUser
- ⇒ Doxory::Action::SearchUser

- ⇒ Doxory::Action::CreateUser
- ⇒ Doxory::Action::SearchUser
- ⇒ Doxory::Action::UpdateUser

- ⇒ Doxory::Action::CreateUser
- ⇒ Doxory::Action::SearchUser
- ⇒ Doxory::Action::UpdateUser
- ⇒ Doxory::Action::DeleteUser

Make your own Actions



```
package Hello::Action::SayHi;
use Jifty::Param::Schema;
use Jifty::Action schema {

param name =>
   label is 'Your name?';
};
```

```
package Hello::Action::SayHi;
use Jifty::Param::Schema;
use Jifty::Action schema {
param name =>
   label is 'Your name?';
};
sub take action {
   my $self = shift;
   my $name = $self->argument_value('name');
   $self->result->message( "Hello, $name" );
```



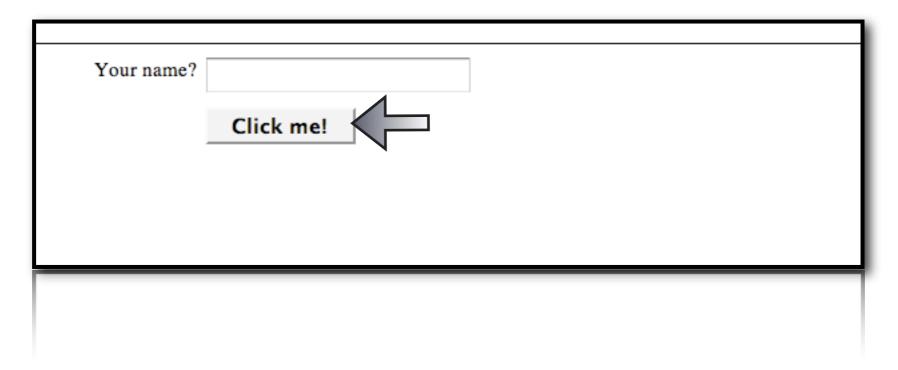
```
<%init>
my $action = Jifty->web->new_action(
    class => 'SayHi'
);
</%init>
```



```
<%init>
my $action = Jifty->web->new action(
    class => 'SayHi'
);
</%init>
<& / elements/wrapper&>
<% Jifty->web->form->start %>
<% $action->form field('name') %>
<% Jifty->web->form->submit %>
<% Jifty->web->form->end %>
</&>
```



```
<%init>
my $action = Jifty->web->new action(
    class => 'SayHi'
);
</%init>
<& / elements/wrapper&>
<% Jifty->web->form->start %>
<% $action->form field('name') %>
<% Jifty->web->form->submit %>
<% Jifty->web->form->end %>
</&>
```



```
<%init>
my $action = Jifty->web->new action(
    class => 'SayHi'
);
</%init>
<& / elements/wrapper&>
<% Jifty->web->form->start %>
<% $action->form field('name') %>
<% Jifty->web->form->submit %>
<% Jifty->web->form->end %>
</&>
```



```
$ curl \
http://localhost:8888/__jifty/webservices/yaml?\
J:A-1=SayHi;J:A:F-name-1=Jesse
```

```
$ curl \
  http://localhost:8888/__jifty/webservices/yaml?\
  J:A-1=SayHi;J:A:F-name-1=Jesse
1: !!perl/hash:Jifty::Result
 content: {}
  action class: Hello::Action::SayHi
  failure: 0
  field errors:
    name: ~
  field warnings:
    name: ~
  message: 'Hello, Jesse'
```



Jifty::Dispatcher



- **ॐ** Simple
- **®** Declarative

- **Simple**
- **®** Declarative
- **Encapsulates view logic**

Three Stages

Three Stages

Before: Sets up state

Three Stages

- **Before: Sets up state**
- **®** On: Shows your pages

Three Stages

- **Before: Sets up state**
- **®** On: Shows your pages
- **After: Cleans up state**

Jifty::ClassLoader



- **₩** Ugly
- **®** Redundant

- **愛 Ugly**
- **Redundant**
- **寒** Fragile

W Ugly

- **Annoying**
- **Redundant**
- **Fragile**

愛 Ugly

- **Annoying**
- **Redundant**
- **Redundant**

Fragile

₩ Ugly

- **Annoying**
- **Redundant**
- **Redundant**

Fragile

Redundant

拳 Jifty::ClassLoader

- **♥** Jifty::ClassLoader
- **Auto-creates classes**

- **₩** Jifty::ClassLoader
- **Auto-creates classes**
- **Never writes them to disk**

⊕ Doxory

- **♥** Doxory
- **♥** Doxory::Record

- **B** Doxory
- **♥** Doxory::Record
- **♥** Doxory::Collection

- **♥** Doxory
- **®** Doxory::Record
- **♥** Doxory::Collection
- **♥** Doxory::Bootstrap

- **♥** Doxory
- **♥** Doxory::Record
- **♥** Doxory::Collection
- ***** Doxory::Bootstrap
- ***** Doxory::Upgrade

- ◆ Doxory
- **®** Doxory::Record
- ***** Doxory::Collection
- ***** Doxory::Bootstrap
- ***** Doxory::Upgrade
- Doxory::Dispatcher

- **♥** Doxory
- **♥** Doxory::Record
- **♥** Doxory::Collection
- **®** Doxory::Bootstrap
- **♥** Doxory::Upgrade
- Doxory::Dispatcher
- **♥** Doxory::CurrentUser

- ⊕ Doxory
- **®** Doxory::Record
- **★ Doxory::Collection**
- Doxory::Bootstrap
- Doxory::Upgrade
- **♥** Doxory::Dispatcher
- Doxory::CurrentUser

Doxory::Model::UserCollection
on

- **♥** Doxory
- **®** Doxory::Record
- **♥** Doxory::Collection
- **♥** Doxory::Bootstrap
- **♥** Doxory::Upgrade
- **♥** Doxory::Dispatcher
- **®** Doxory::CurrentUser

- Doxory::Model::UserCollection
- **♥** Doxory::Action::CreateUser

- ◆ Doxory
- **®** Doxory::Record
- **♥** Doxory::Collection
- **♥** Doxory::Bootstrap
- ***** Doxory::Upgrade
- **♥** Doxory::Dispatcher
- **®** Doxory::CurrentUser

- Doxory::Model::UserCollection
- ***** Doxory::Action::CreateUser
- **♥** Doxory::Action::SearchUser

- **♥** Doxory
- **®** Doxory::Record
- **♥** Doxory::Collection
- **♥** Doxory::Bootstrap
- **®** Doxory::Upgrade
- ◆ Doxory::Dispatcher
- **®** Doxory::CurrentUser

- Doxory::Model::UserCollection
- Doxory::Action::CreateUser
- Doxory::Action::SearchUser
- **♥** Doxory::Action::UpdateUser

- ◆ Doxory
- **®** Doxory::Record
- ◆ Doxory::Collection
- **♥** Doxory::Bootstrap
- Doxory::Upgrade
- * Doxory::Dispatcher
- **®** Doxory::CurrentUser

- Doxory::Model::UserCollection
- ***** Doxory::Action::CreateUser
- ***** Doxory::Action::SearchUser
- **♥** Doxory::Action::UpdateUser
- **♥** Doxory::Action::DeleteUser

- ⊕ Doxory
- **®** Doxory::Record
- **♥** Doxory::Collection
- **♥** Doxory::Bootstrap
- Doxory::Upgrade
- ◆ Doxory::Dispatcher
- **®** Doxory::CurrentUser

- Doxory::Model::UserCollection
- ***** Doxory::Action::CreateUser
- ***** Doxory::Action::SearchUser
- **♥** Doxory::Action::UpdateUser
- * Doxory::Action::DeleteUser
- * ...et cetera





© Continuations in Perl?

- Continuations in Perl?
- Not Full Continuations

- Continuations in Perl?
- Not Full Continuations
- Delimited Continuations

Full Continuations

Full Continuations



Serializes everything

Full Continuations

- Serializes everything
- 60 %ENV, STDIN, STDOUT

Full Continuations

- Serializes everything
- 6 %ENV, STDIN, STDOUT
- DBI Handle, Log Handle

Full Continuations

- Serializes everything
- %ENV, STDIN, STDOUT
- DBI Handle, Log Handle
- Phase of the moon



- Only the application state
- Requests and Actions

- Only the application state
- Requests and Actions
- That's all we need



The web is built on GOTO

- The web is built on GOTO
- Do you like GOTO?

- The web is built on GOTO
- Do you like GOTO?
- Continuations are GOSUB

- The web is built on GOTO
- Do you like GOTO?
- Continuations are GOSUB
- Welcome to Civilization!



- Back to our Doxory
- Requiring Login

- Back to our Doxory
- Requiring Login
- lib/Doxory/
 Dispatcher.pm

```
package Doxory::Action::Login;
use Jifty::Param::Schema;
use Jifty::Action schema {
param address =>
   is mandatory,
   ajax validates,
   label is 'Email address';
param password =>
   is mandatory,
   type is 'Password',
   label is 'Password';
};
```

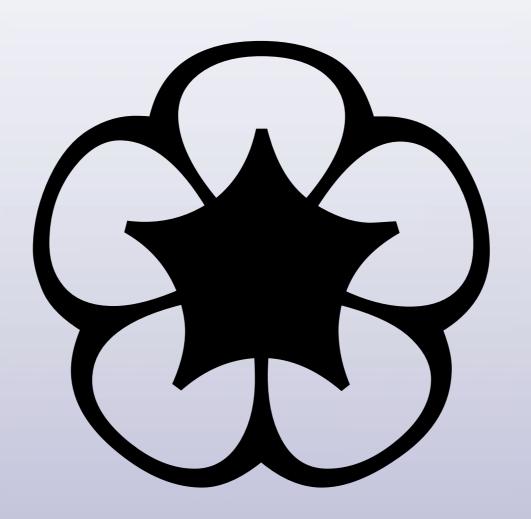
```
package Doxory::Action::Login;
use Jifty::Param::Schema;
use Jifty::Action schema {
param address =>
   is mandatory,
   ajax validates,
   label is 'Email address';
param password =>
   is mandatory,
   type is 'Password',
   label is 'Password';
};
sub take_action {
   my $self = shift;
   if ( $self->validate_login ) {
       $self->login_as_user( $self->user );
       return 1;
   return 0;
```

package Doxory::Dispatcher;

```
## Auth and login
before '*' => run {
   if (not Jifty->web->current_user->id ) {
      tangent '/login';
   }
};
```

```
%# share/web/templates/login
<%init>
my $action = Jifty->web->new_action(
    class => 'Login',
);
</%init>
```

```
%# share/web/templates/login
<%init>
my $action = Jifty->web->new_action(
    class => 'Login',
);
</%init>
<&/pre>
<&|/ elements/wrapper, title => 'Login' &>
<h2>Login</h2>
   <% Jifty->web->form->start %>
       <% $action->form_field('address') %>
       <% $action->form_field('password') %>
       <% Jifty->web->return( label => 'Login') %>
   <% Jifty->web->form->end %>
</&>
```











HTML::Mason



Mason has Components



Server-side inclusion







- Components 2.0
- Client-side for AJAX
- Server-side for Lynx

```
<% Jifty->web->region(
   name => "myweDoxory-posts",
   path => "/fragments/page_of_posts"
) %>
```





Server-push (Comet)



Refreshed fragments

- Server-push (Comet)
- Refreshed fragments
- Live Demo!

Thank you!

