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Business Apps with Drupal's webform module

DrupalCamp Orlando - Apr 20, 2013

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SpinSpire: Enterprise Drupal!

<http://spinspire.com/>

What is webform module?

Webform module lets you ...

- Design custom forms and save submissions.
- Use most of the standard components such as textfield, select, textarea, checkbox/radios, even file uploads.
- Send emails driven by submitted data.
- Let Anonymous users create submissions.
- Download submission reports.
- Lightweight: Each submission is just a record in a table, not a whole new node.
- Very flexible data model.

Use Cases

Increasing order of complexity

- Contact form
- Survey / Poll
- Content submission
- Event registration
- Case tracking system
- Order entry system
- E-commerce: ordering, payment, delivery ...
- Or whatever you can dream up!

Helper Modules

- [webform_conditional](#) - show a component based on value of another (built in with v4)
- [webform_rules](#) - react to submissions
- [webform_tokens](#) - use webform submitted data as token values (built in with v4)
- [fillpdf](#) - populate PDF form templates with webform submitted data
- Attach webform forms to non-webform content types

Beyond Configuration

- Add BCC field to any email component.
- Single-use options: options used by a submission become unavailable.
- Dynamic option lists: options generated by code (e.g. fetch from DB or webservice)
- Replace listboxes with [multiselect](#) widget.
- Store/load webform data to/from your own custom tables.
- Suppress submission email until payment arrives.

Webform Data Structures

```
$node = $form['#node'];  
$webform = $node->webform;  
$components = $webform['components'];  
$component['cid'], $component['name'],  
$component['type'], etc.;  
// The one place to store all extension data.  
$component['extra']; // serialized metadata
```

Webform API Hooks

- `hook_form_webform_client_form_alter`
- `hook_form_webform_component_edit_form_alter`
- `hook_webform_submission_*`: load, presave, insert, update, delete
- `hook_webform_select_options_info & _alter`
- `hook_webform_submission_actions`
- `hook_webform_component_info & _alter`

Silver Bullet: \$component['extra']

- Hierarchical tree of metadata(array of arrays)
- \$component['extra'], form alter hooks and '#parents' attribute make a killer combination!
- Alter component edit forms to bind to \$component['extra'] at design time.
- Alter client forms to use \$component['extra'] at runtime and drive your custom code.

Generalized approach to Customizing Webforms

1. Create custom module: mymod.info & mymod.module.
2. List 'webform' as dependency in mymod.info.
3. Implement two hooks as below.

```
function mymod_form_webform_component_edit_form_alter
  (&$form, &$form_state) {
  $form['mydata'] = array(
    '#type' => 'textfield',
    '#parents' => array('extra', 'mydata'),
  );
}
function mymod_form_webform_client_form_alter
  (&$form, &$form_state) {
  // use $component['extra']['mydata'] ...
}
```

JavaScript behaviors

```
// In mymod.module
function mymod_form_webform_client_form_alter
  (&$form, &$form_state) {
  drupal_add_js('mymod.js');
  $data['mymod']['mydata'] = $component['extra']
  ['mydata'];
  drupal_add_js($data, 'setting');
}
// In mymod.js
(function($){
  Drupal.behaviors.mymod {
    attach: function(context, settings) {
      // use settings.mymod.mydata ...
      context.find('comp..').val(settings.mymod.mydata
[...]);
    }
  }
})(jQuery);
```

Example: Email component BCC

```
function wfdemo_form_webform_component_edit_form_alter(..)
{
    $component_type = $form['type']['#value'];
    $component = @$form_state['build_info']['args'][1];
    if($component_type == 'email') {
        $form['extra']['bcc'] = array(
            '#type' => 'textfield',
            '#title' => t('Additional BCC'),
            '#default_value' => @$component['extra']['bcc'],
        );
    }
}

function wfdemo_mail_alter(&$message) {
    $node = $message['params']['node'];
    $cid = (int)$message['params']['email']['email'];
    $component = $node->webform['components'][$cid];
    $bcc = $component['extra']['bcc'];
    if($bcc) {
        $message['headers']['Bcc'] = $bcc;
    }
}
```

Screenshot: Component Edit Form

Additional BCC

Enter comma-separated list of email addresses to be added to BCC when this component is chosen as email target

▼ VALIDATION

Mandatory

Check this option if the user must enter a value.

Unique

Check that all entered values for this field are unique. The same value is not allowed to be used twice.

▼ DISPLAY

If you want to place the input textbox elsewhere, then change `$form['extra']['bcc']` to some other path. But then you'll also have to set `'#parents'` attribute to `array('extra', 'bcc')` ...

What else is possible?

- save webform submission data to custom tables while using webform UI.
- webform_remote_post - post the webform submission data to a remote webservice. See <http://drupal.org/sandbox/enrique.delgado/1786762>
- Also checkout webform UI builder - http://drupal.org/project/form_builder
- Tell me what you might do with webforms?!?!

Q&A

Ask any questions.

Or email jitesh@spinspire.com.

Download source code from

http://drupal.org/sandbox/jitesh_doshi/1811566

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