

Part 2 - CCK & Views

How to build a simple social featured
website in a matter of minutes

A dark blue silhouette of a city skyline with various building shapes, located at the bottom of the slide.

Intro

- CCK and Views are two most powerful modules of Drupal
- CCK module enables fast creation of content types (data models)
- Views module enable fast creation of all kinds of lists and selections, either in pages or in blocks
- The combination of CCK and Views modules greatly improves the efficiency and convinience of custom developement

Fantastic CCK

- With CCK you can create whatever content models you would like to do
 - Create custom content types
 - API provided for both "edit" and "view"
- Pre-defined field types
 - textfield
 - select (single/multi)
 - checkbox
 - autocomplete field
- Easy to expand custom fields by API

Awesome Views

- The top rated and most used module of Drupal
- Build all kinds of lists and collections easily
- Provide all kinds of options:
 - fields
 - arguments handling
 - filters
 - sort criteria
- Can export codes for further customization
 - theming wizard
 - views codes export

Case Study

Target & Requirements: Build a simple Web 2.0 website for restaurant reviews like dianping.com

- Restaurant information
 - name
 - address
 - menu
 - photos
 - average price
- Reviews and recommendations
 - title
 - review content
 - fivestar rating
 - customer-shot photos

1st Implementations - Content types

- CCK content type: restaurant
 - name
 - address (including taxonomy for cities)
 - menu
 - imagefield
 - price
- CCK content type: user review
 - title
 - review content
 - imagefield
 - node-reference to restaurant

1st Implementations - Views

- CCK content type: restaurant
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Advanced CCK

- How to build new CCK fields
- How does CCK work
- Where to find the reason of problems



Problems

- Fivestar target node id
 - Supply it with path
 - Make a link "Review it"
- Compute average rating
 - Use a Voteapi function to get the value
 - Show it in the node

How to display them

- Basic ideas - take the link as example
 - Use template files
 - Nodeapi
 - hook_link
 - hook_link with template
- My idea
 - A new CCK Field. Why:
 - Shows how to make a simple field
 - Really simple - only display something
 - Can be reused in any content type, any position
 - Can be themed in many ways
 - ...

Coding basics

- Concepts
 - What is a CCK field
 - What is a field widget or say a widget
- Materials
 - <http://api.drupal.org>
 - `cck/field.php`

"Review it"

- Build the field
 - restaurant_fields.module
 - 8 hooks
- Setup
- Use it
 - restaurant_support.module
 - hook_form_alter()
 - get nid from path
 - set it as node reference default value
 - let 5star use the value of node reference

Compute average rating

- Another widget
 - 2 lines
 - `votingapi_get_voting_result()`
- Enable 5star for restaurant & hide it

Further possibilities

- Build CCK field forms
- Make CCK fields working with Views



Thank you!
Questions

