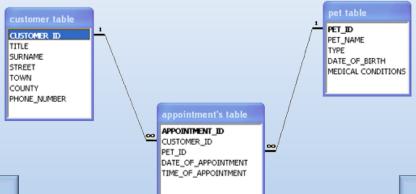


Intermediate: Site Building

Florida DrupalCamp 2014 Parent/Child Data Modeling



- Absolutely no code
- No custom entities
- No ECK

- User thought Ul's
- Tiny site footprint
- Super expand-able





Parent/Child Data Modeling





Jay Epstein

- Senior Developer with Traktek Partners, LLC.
- Co-Organizer: Broward Drupal Users Group
- Mentor: Drupal Career Starter Program
- 3+ Years working with Drupal
- Over 20 Years in IT



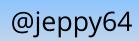
http://browarddrupal.org



http://meetup.com/broward-drupal







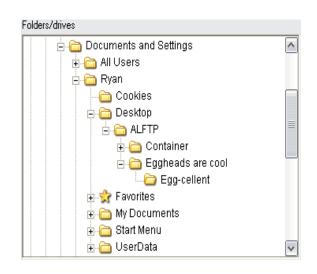


Parent/Child Data Modeling



What you can look forward to today:

- The toolbox (smaller than you'd expect!)
- The top down hierarchy approach to content types.
- Ul's that are user thought process driven.
- Visualizing your content in relational terms.
- Views and displaying fields based on relationships.
- Saying goodbye to taxonomy (Relying on groups of content).







Parent/Child Data Modeling



The toolbox:

Modules:

- Entity API: https://drupal.org/project/entity
- Entity Reference: https://drupal.org/project/entityreference
- Entity Connect: https://drupal.org/project/entityconnect
- Auto Entity Label: https://drupal.org/project/auto_entitylabel
- Views: https://drupal.org/project/views



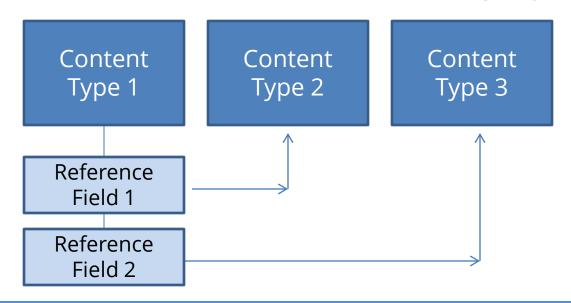


Parent/Child Data Modeling



The Comparison: The Flat Approach

- Content types reside on a level thought architecture.
- Reference fields, allow for data to tie or group (usually by taxonomy).





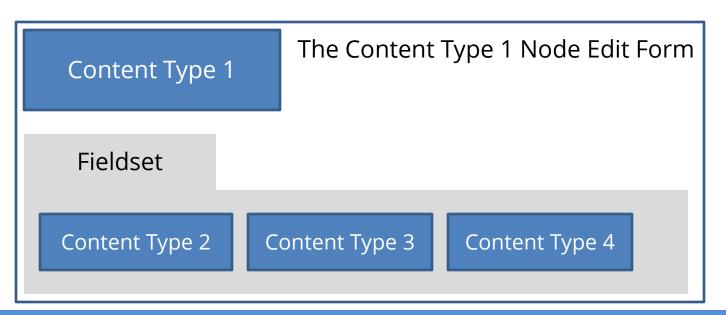


Parent/Child Data Modeling



The Comparison: The Hierarchal Approach

- Content types reside on a multi-level visual architecture.
- Reference fields as entity connect fields, allow for **content types** to tie or group.







Parent/Child Data Modeling



Our mission:

Build a new data model for a cruise ship company that sells River Cruises.

Hundreds of trips.

Deep relational data per trip. (10 content types deep per cruise... minimum ~ WHOA!)

Bolt on ability for future functions without affecting existing site content... (gulp, sigh)

Pain Points on Current System

- Node Ul's confusing.
- Non intuitive content list displays.
- Having to "hunt" for content (with thousands of nodes).
- Marathon data entry tasks.
- Down time for adding enhancements.





Parent/Child Data Modeling



We need to think differently on how we ask a user to interact with Drupal.

We need to give users a thought process driven UI.





Parent/Child Data Modeling

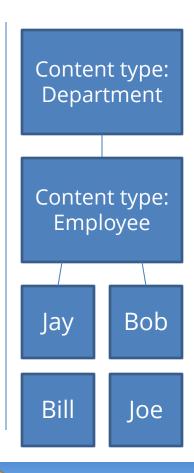


The Approach: Old School Relational Data Let's call it: Parent/Child Content Types

example: **One** Department can have **Many** employees.

How To: Relational model building with hierarchy

- Identifying "Parents and their Children".
- Identifying "Siblings".
- Sketching the "family" on paper (like a genealogy tree)
- Transposing to Drupal through content types and fields.







Parent/Child Data Modeling



Step 1: Content Type Inventory:

Document the content types and short descriptions of why they exist.

Example:

Cruise: The master content type. Container of itself and everything related to a cruise.

Itinerary: Describes the length of the trip, destinations, vessel, meals, cabins, upgrades, etc.

Itinerary Day: Describes each day of the itinerary in detail.





Parent/Child Data Modeling



Step 2: Identifying Parents & Children:

Document the content relations in a hierarchal fashion.

Cruise: The master content type. (AKA The Parent)

Itinerary: (child of cruise) (1 to many) (one cruise can have many itineraries)

Itinerary Day: (child of itinerary) (1 to many) (one itinerary can have many days)

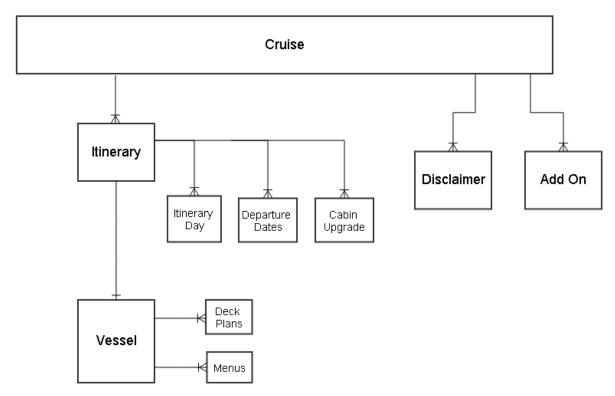




Parent/Child Data Modeling



Step 3: Create the tree:







Parent/Child Data Modeling



Step 4: It's Drupal Time:

- A well documented data model makes the Drupal part a breeze
- Documenting outside of Drupal allows for a clean, one shot system creation

One Last Thought:

- Machine names: Ensure matching machine names on content types and fields
- This makes views interaction super simple

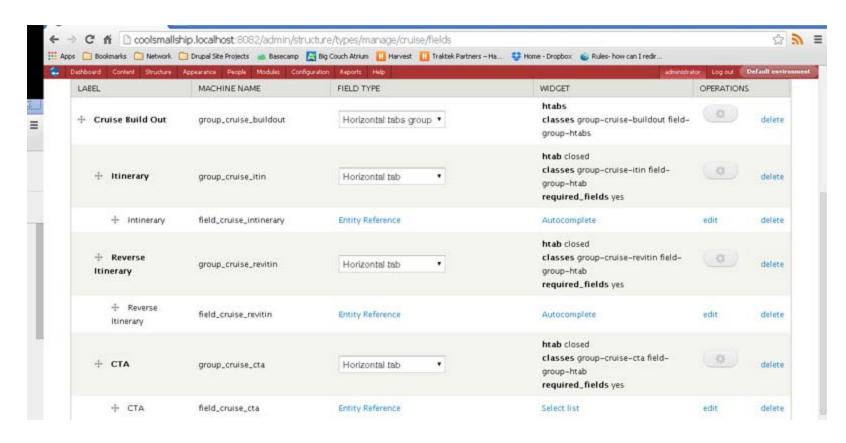




Parent/Child Data Modeling



Fields







Parent/Child Data Modeling



Fields

Use sitewide default ▼
Choose the default HTML for this field.
Display Entity Connect "add" button.
Yes
○ No
Choose "No" if you want to unload "add" button for the field
Display Entity Connect "edit" button.
Yes
○ No
Choose "No" if you want to unload "edit" button for the field

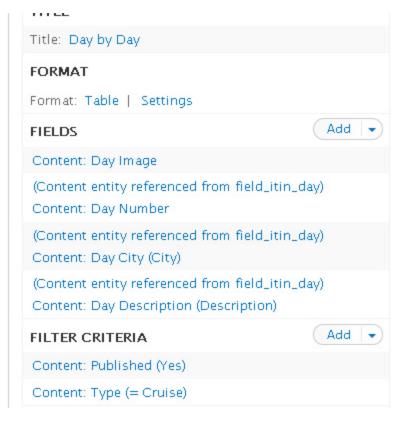




Parent/Child Data Modeling



Views



DEOCK DELLINGS	
Block name: Itin Day Block	
Access: Permission View published conter	nt
HEADER	Add
FOOTER	Add
PAGER	
Use pager: Display all items All items	
More link: No	

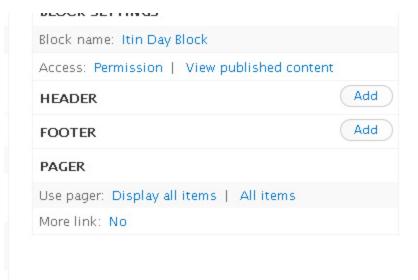




Parent/Child Data Modeling



Views



/ cavarreea	
CONTEXTUAL FILTERS	Add ▼
Content: Nid	
RELATIONSHIPS	Add →
Entity Reference: Intinerary	
(Content entity referenced from field_cri Entity Reference: Reverse Itinerary Day	uise_intinerary)
NO RESULTS BEHAVIOR	Add
EXPOSED FORM	
Exposed form style: Basic Settings	
OTHER	
Machine Name: block	
Comment: No comment	
Use AJAX: No	

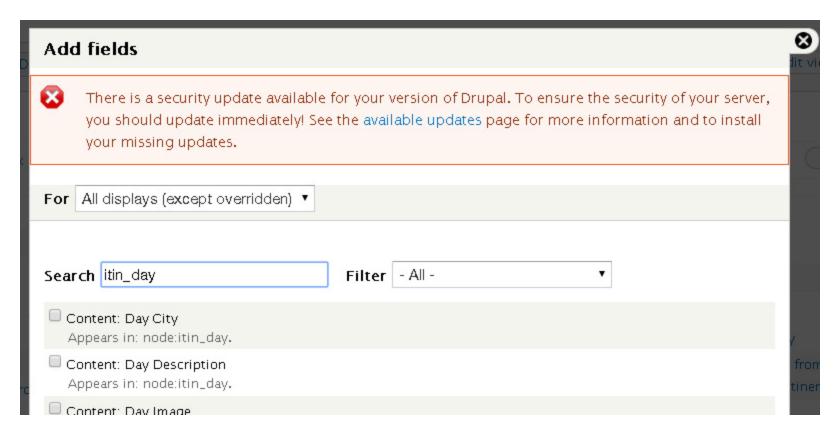




Parent/Child Data Modeling



Views









Thanks for watching ©

Florida DrupalCamp 2014

Parent/Child Data Modeling

Intermediate: Site Building



