Design Features for the Social Web: The Architecture of *Deme*

►Todd Davies - summary of the paper

Mike Mintz (voiceover) - demo

(see http://deme.stanford.edu)

Overview

The social Web is becoming more important

Users want/need flexible experiences and control over their data

Free/open-source web content management systems (WCMSs), e.g. *Drupal*, provide more flexibility and user-control than commercial sites, but are missing needed features

FOSS web application frameworks, e.g. *Rails, Django*, solve many of these problems, but require programming skill

We built a more flexible WCMS (*Deme*) that tries to make the power of web app frameworks available to end-users and nonprogrammer website administrators *(cf model-driven CMS approach of Souer-Kupers, MDWE 2009)*

Characteristics of the social Web

User-generated social content

Social networking

Collaboration

Cross-platform data sharing

Summary of *Deme*'s features

Content managment concept	Desired social feature	Deme v0.9 WCMS
unit	**page independent**	**item**
subsegment	**fully pointable**	**piece, excerpt**
unit type	**polymorphism**	**item type**
behaviors	**extensible**	**actions**
container	**referential**	**collection**
type structure	**inheritance hierarchy**	**item type hierarchy**
type-viewer matching	**server-side specialized**	**viewer types**
relation specifiers	**integrally unitizable**	**transclusions, memberships**
access control	**fluid-granular**	**permissions**
addressing	**domain independent**	**(universal) item id**
versioning	**comprehensive**	**old versions table**
deletion methods	**user controlled**	**deactivate,destroy**
software license	**free/open-source**	**Affero GPLv3**

Deme item type hierarchy (simplified)
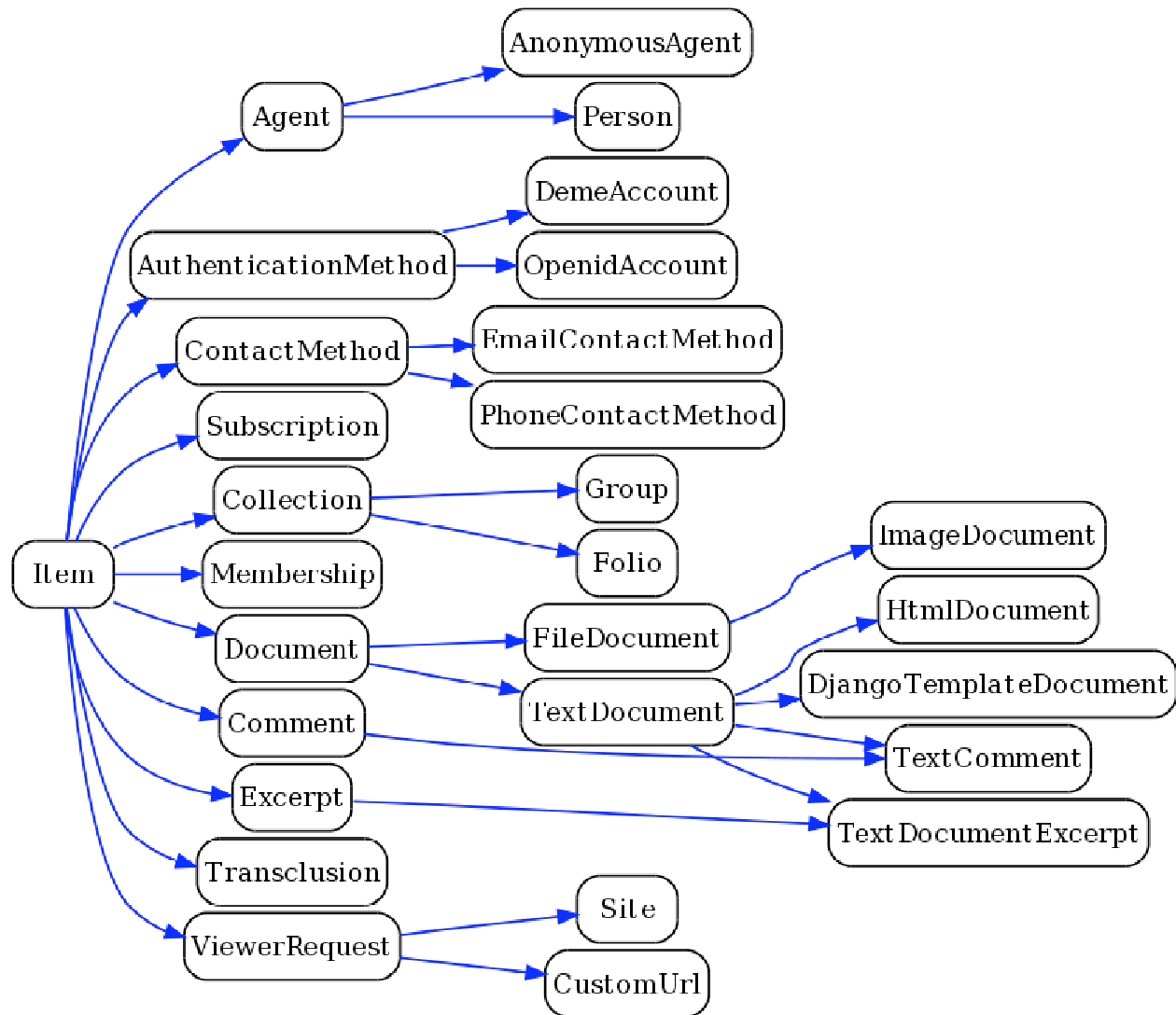
Deme item type hierarchy (detail, partial view)
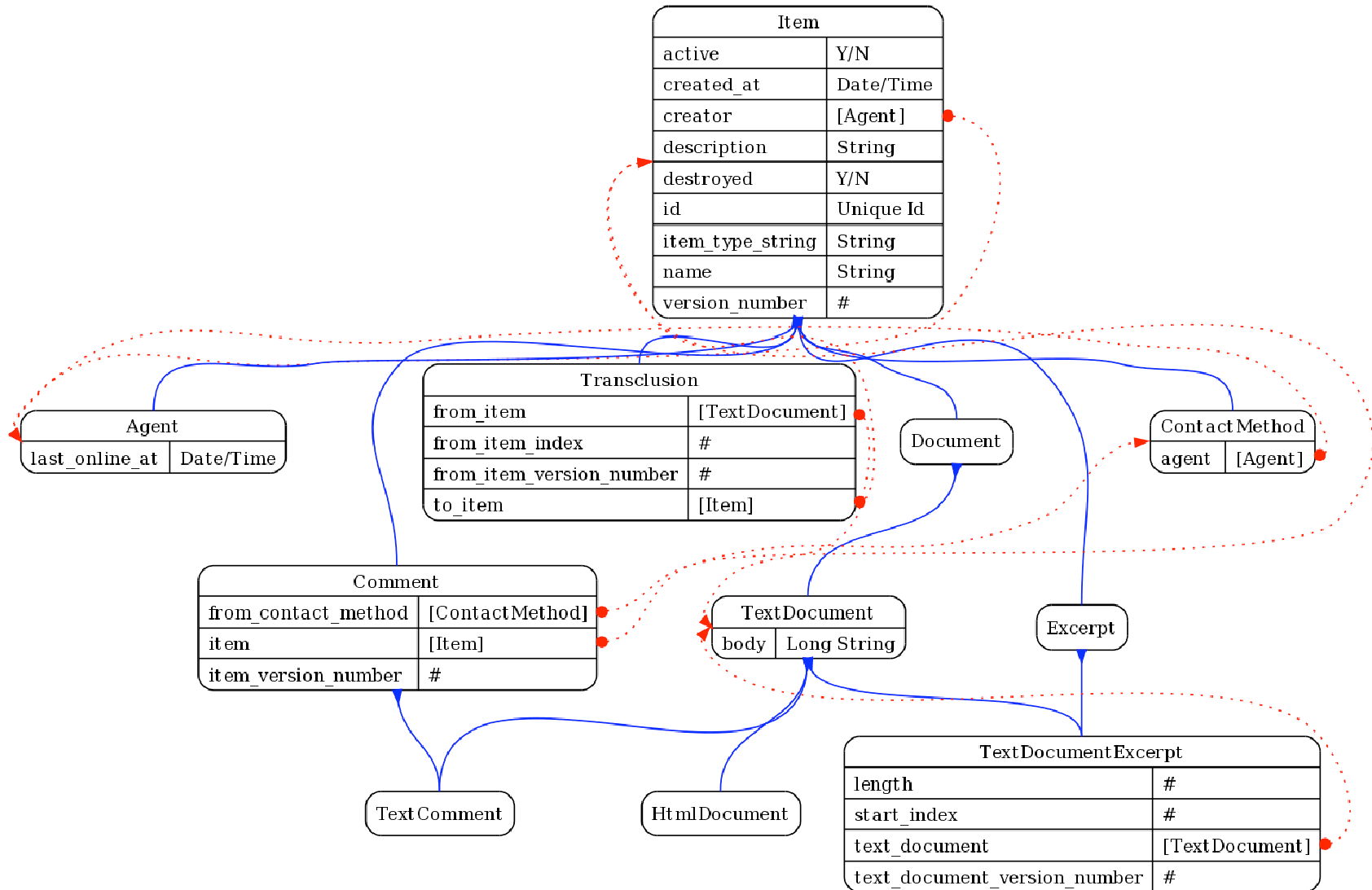
Comparison of Deme with other web technologies

Content managment concept	Desired social feature	File system/Web 1.0 HTML	Web CMS (Drupal)	Commercial Web 2.0 sites	OOP /Web app frameworks	Deme v0.9 WCMS
unit	**page independent**	file/page	**node**	photo, video, etc .	**object/row**	**item**
subsegment	**fully pointable**	semantic element	**field**	custom fields	**attribute/ field**	**piece, excerpt**
unit type	**polymorphic**	Internet media type	content type	custom types	**class**	**item type**
behaviors	**extensible**	HTTP methods	**menus**	widgets	**methods**	**actions**
container	**referential**	directory	**categories**	tags/labels	**container classe s**	**collection**
type structure	**inheritance hierarchy**	MIME type /subtype	(flat)	(flat)	**class inheritance**	**item type hierarchy**
type-viewer matching	**server-side specialized**	browser application preferences	**views and modules**	**site-defined viewer**	**model-view separation**	**viewer types**
relation specifiers	**integrally unitizable**	one-way hyperlinks	**relation nodes**	limited bidirectional links	**relation objects**	**transclusion, membership**
access control	**fluid- granular**	restricted directories	**admins and roles**	custom permissions	**customizable**	**permissions**
addressing	**domain independent**	URL	node ID	permalink	**object identiy**	**(universal) item id**
versioning	**compre- hensive**	old files	**content versioning**	none or **wiki diffs**	**version control system**	**old versions table**
deletion methods	**user controlled**	file system delete	**node delete**	limited data removal	**file edit and delete**	**deactivate, destroy**
software license	**free/open- source**	default copyright	**GPLv2**	usually proprietary	**open source**	**Affero GPLv3**

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Deme:
thanks and contact info

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Project site:

http://deme.stanford.edu