Deme: Content Management for the Social Web

- Todd Davies - overview

Mike Mintz (voiceover) - demo

Joe Marrama - coding example

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

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deme

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

Characteristics of the social Web

User-generated social content

Social networking

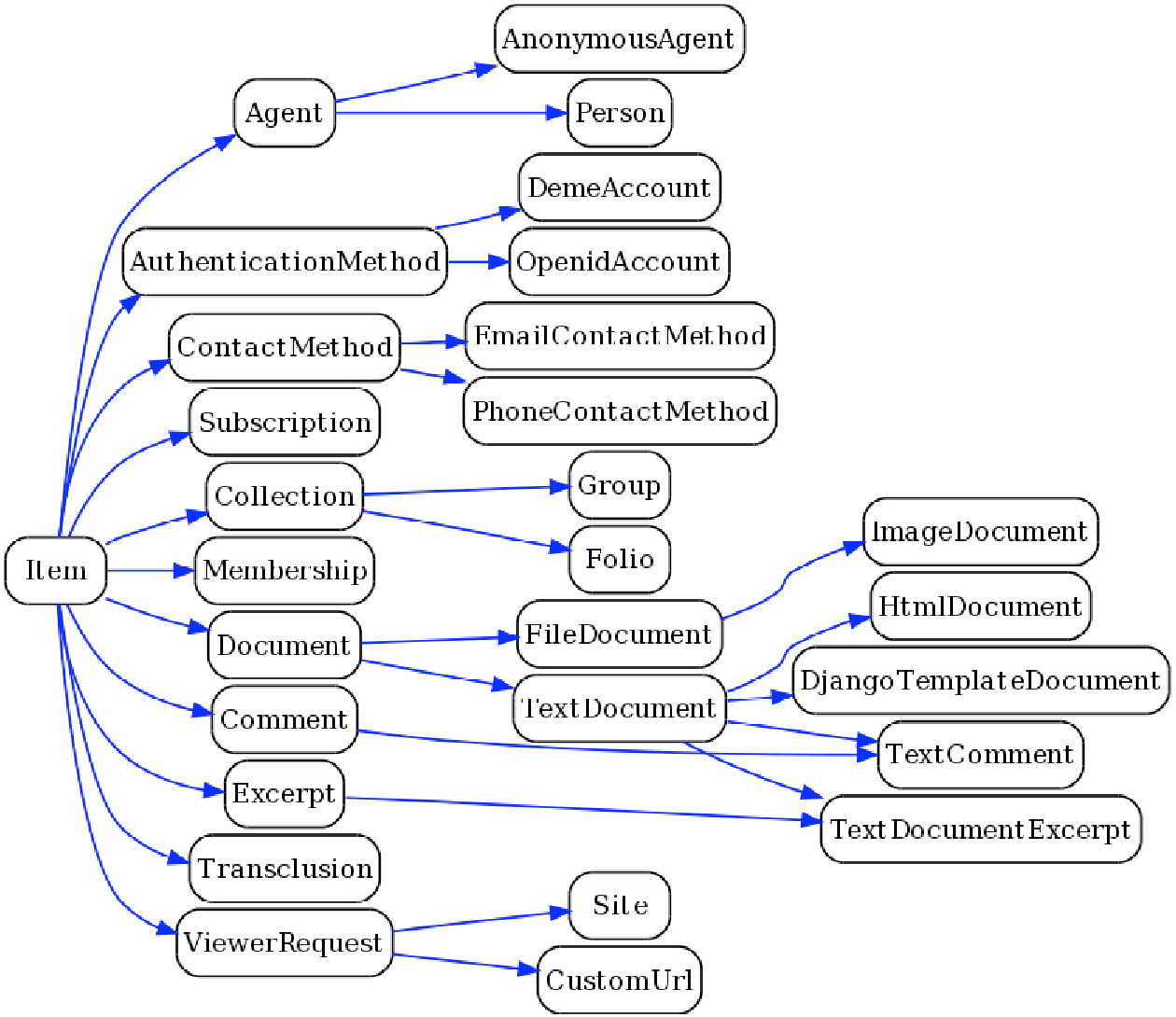
Collaboration

Cross-platform data sharing

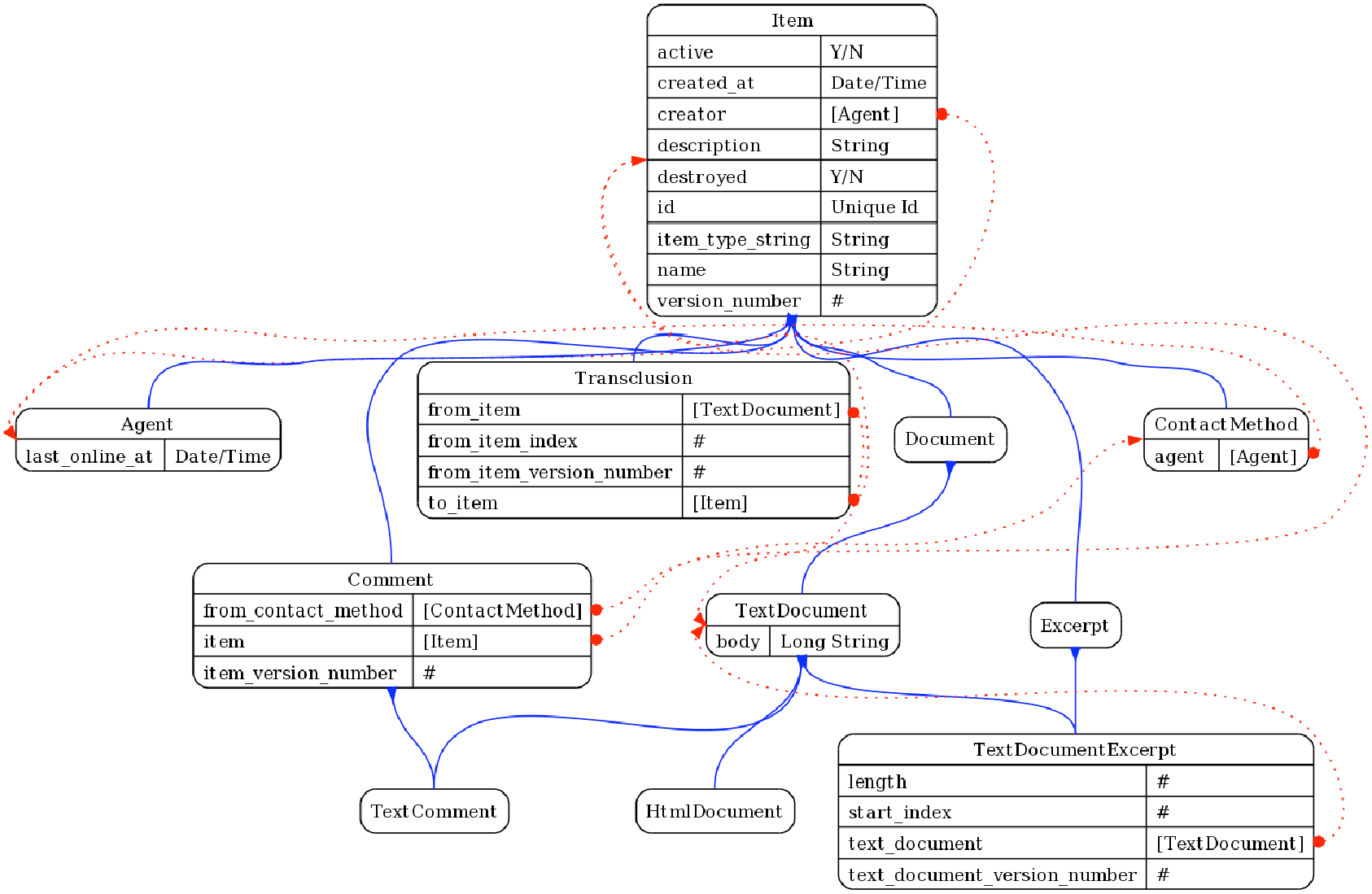
Summary of *Deme*'s features

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**

Permissions precedence negative > positive > unspecified

		items		
		single	collection	all
agent	individual	1	2	3
	group	4	5	6
	everyone	7	8	9

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Deme:
thanks and contact info

The Deme team (2003-):

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Project site:

http://deme.stanford.edu

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