

# From the Social Web to Public Deliberation: Design Considerations for the Deme Platform

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### The setting for public deliberation

Public policy issue(s)

Conflicting interest groups

Lots of uncertainty and risk

Divergent knowledge and opinions

Policy makers and/or researchers decide to consult the public

### Example issues

Health care research expenditures

Local development projects

Environmental regulation

Tax policies

Foreign policy

Social issues (abortion, gay rights, etc.)

### Features of public consultation

Recruitment of participants from the general public

[Distribution of pre-deliberation briefing materials and pre-deliberation polling]

Gathering in a venue

Presentation of the issue(s)

Discussion between participants

Polling or decision making

#### Our current task:

Provide software to support public consultation (mostly asynchronous) via the Web

**Table 1: Summary of Five Design Categories** 

Category	Question	Design Dimension
1. Purpose	Why is the deliberation being designed?	<ul><li>(a) Outcome (decisions-beliefs-ideas)</li><li>(b) Collectivity (group-individual)</li></ul>
2. Population	Who will be involved?	<ul><li>(a) Recruitment (random-selected)</li><li>(b) Audience (public-private)</li></ul>
3. Spatiotemporal Distance	Where and when will participants be interacting with each other?	<ul><li>(a) Colocation (face to face-telecommunication)</li><li>(b) Cotemporality (synchronous-asynchronous)</li></ul>
4. Communication Medium	How will communication occur?	<ul><li>(a) Modality (speech-text-image-multimodal)</li><li>(b) Emotivity (impeded-enabled)</li><li>(c) Fidelity (transformed-unaltered)</li></ul>
5. Deliberative Process	What will occur between participants	<ul><li>(a) Facilitation (moderated-unmoderated)</li><li>(b) Structure (rules-free form)</li><li>(c) Identifiability (identifiable-anonymous)</li><li>(d) Incentivization (reward-no reward)</li></ul>

Table 2: Two-Way Communication Media Representing Different Levels of Interactivity and Expressiveness s

Expressiveness

(modality)

Interactivity
(cotemporality)

	Low Moderate (speech)		High (video)	
Low (asynchronous)	Email	Voice mail	Video mail	
Moderate (on demand)	Instant messaging (texting)	Instant voice messaging	Instant video messaging	
High (synchronous)	Synchronous text editing	Phone call (teleconferencing)	Video conferencing	

#### Discussions can differ in...

Purposiveness

Equivocality (ambiguity)

Conflict

		goal conflict	
		low	high
belief conflict	low	cooperation	negotiation
	high	debate	deliberation

### Deme: A High Level Task Set

Content management for the social Web
Control by users
Support for flexible group access control
A platform for online deliberation
Support for public deliberation
experiments

### Characteristics of the social Web

**User-generated social content** 

Social networking

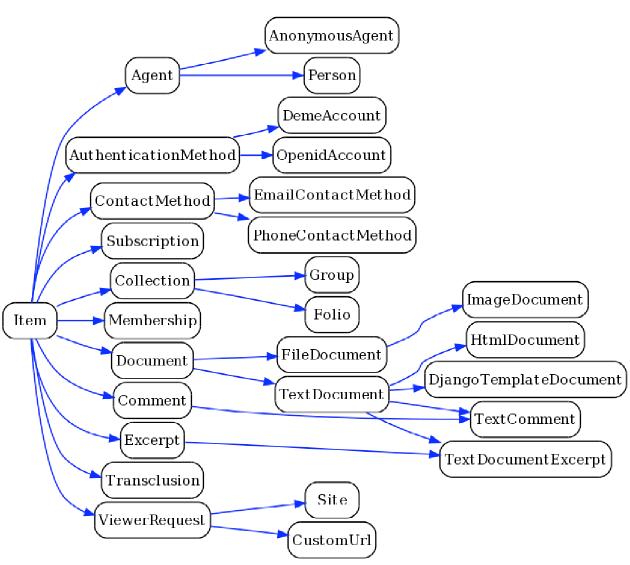
Collaboration

Cross-platform data sharing

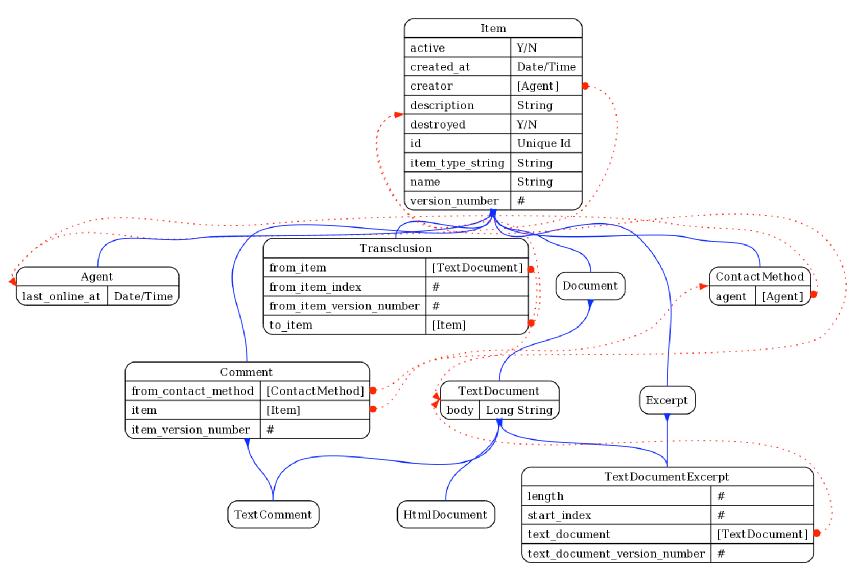
### Summary of *Deme*'s features

Content managment	Desired social feature	Deme v0.9 WCMS
concept		
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	Desired	File	Web CMS	Commercial	OOP	Deme v0.9
managment	social	system/Web	(Drupal)	Web 2.0 sites	/Web app	WCMS
concept	feature	1.0 HTML			frameworks	
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

### Examples of user desires

- User wants to know how data are being collected and used.
- User does not want data stored by third parties.
- User wants to control the privacy of their data.
- User wants to control whether data are publicly searchable.
- User wants freedom to move data to a different host or platform.
- User wants to control who can read or edit their data.
- User wants to be able to edit or delete the data they have created.
- User wants to know how a platform works.
- User wants to be able to install, use, and modify the software underlying a platform.
- User wants the design of the platform to reflect their need

### Control by users

- privacy control,
- data portability,
- creative control,
- networked free software, and
- participatory design.

A stronger version would include a sixth principle:

user governance.