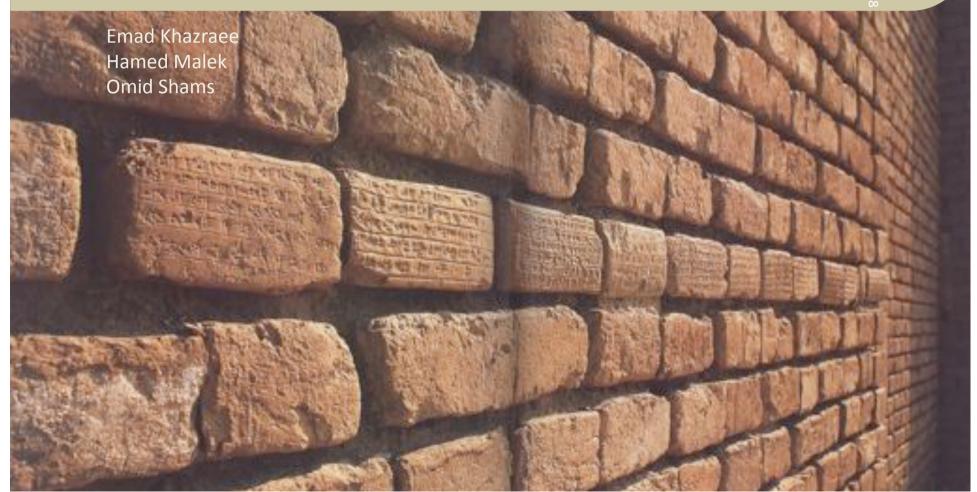
Aratta: a web-based research tool for collaborative research on Iranian Architectural History

DC-2008: Dublin Core and Metadata Applications, Berlin



25 September 200

Agenda:

- A Brief History of Aratta
- Primary Resources for History of Iranian Architecture
- Motivation for Aratta Project
- Collective Knowledge Systems
- Design, Concept, and Approach
- Wiki Model and High Quality Metadata Generation
- Aratta Data Model
- Implementation of Aratta
- Mapping to the Other Schemas
- Future Works

A Brief History of Aratta

- Aratta was a lost civilization in the history which was mentioned in
 - Mesopotamian resources
- There was a Hypothesis that Aratta is located in the east of Mesopotamia
- A flood in 2001 uncovered an unknown Bronze Age civilization in south
 - east of Iran in Jiroft basin (2500 BC)
- Now some of archeologists believe that the new discovery is the lost
 - k i n g d o m o f A r a tt
- •The oldest footprint of metadata is found in Aratta!

A Brief History of Aratta









Primary Resources for History of Iranian Architecture



Motivation for Aratta Project

- Encyclopedia of Iranian Architectural History (EIAH) needed a note taking tool for extracting controlled vocabulary from primary resources
- Also, the need for a web-based environment and its related tools for research in the domain of Iranian architectural history was felt by the architectural studies department of Shahid Beheshti University (SBU)
- There is serious trend between new generation of Iranian art and architecture historians to study the literal primary resources thoroughly

Motivation for Aratta Project

How can we get Semantic Web involved?

Collective Knowledge Systems

- Social Web is an ecosystem of participation and value is created by the aggregation of many individual user contributions*
- Semantic Web is an ecosystem of data, where value is created by the integration of structured data from many sources*
- Merging a social web of experts and semantic web will produce a synergy in knowledge production
- This means a more expanded and thorough resource description
- Besides, we believe when you start to use Semantic Web in your everyday life and tools, Then the age of Semantic Web will start

^{*} Gruber, T., 2007. Collective knowledge systems: Where the Social Web meets the Semantic Web

• The basic concept of Aratta project was a web-based collaborative research tool in which expert users can take notes from various resources d s h a r e t h a m

•This tool should support two important aspects: ·contribution of researchers mantic qualiti

Contribution of researchers requires:

- •A collaborative work space easy to use by different users
- •Syntax free note taking
- •Clear definition types
- •Traceable contributions
- •Compatibility with mostly used research standards

Semantic qualities require:

- An easy and clear policy for resource description
- A basic data model that can be adopted easily and cover different aspects of Iranian architectural history
- A method of description which prevents interpretational prejudgments

What is your idea about a Semantic Wiki?

Wiki Model and High Quality Metadata Generation

Wikis can be used as good metadata generation engines by experts of a specific domain, **because:** Wiki Model shows that it can attract a lot of contribution • The knowledge level of Experts will enhance the preciseness of tags Consensus of experts in wiki model works as a metadata quality control S е m • We can use the idea of **Snap to Grid** to improve the quality of tags, This approach keeps users in a predefined framework and reduces many of m ista C n m m O

Aratta Data Model

The note taking process occurs in four layers:

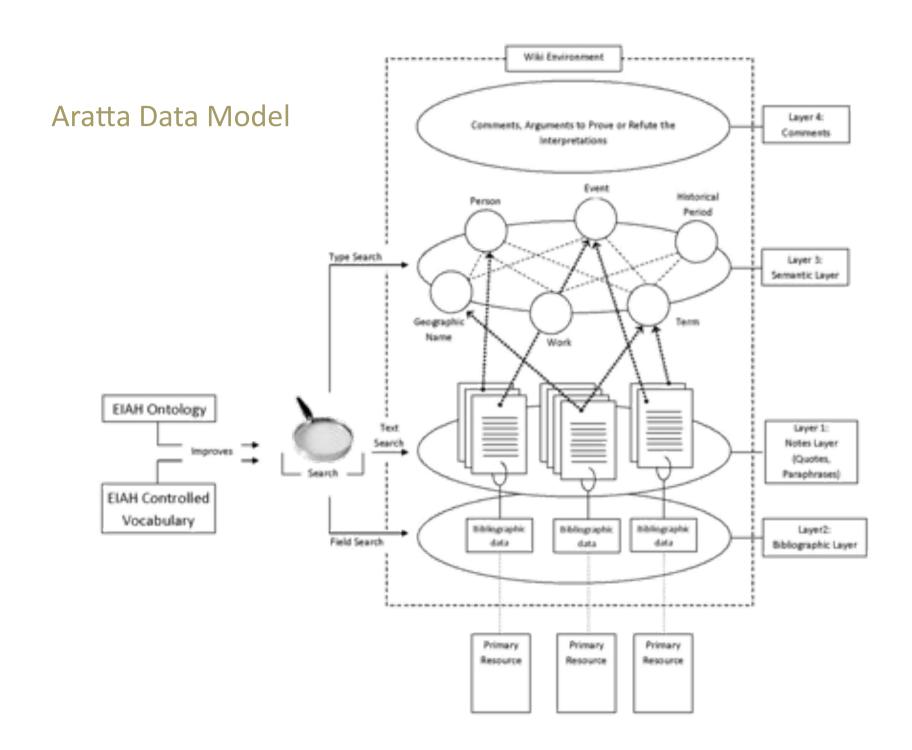
- 1. Extracted data or note itself
- 2. Bibliographic data about the source from which the note is taken
- 3. A semantic layer added by tags, keywords, descriptions and interpretations
- 4. Further comments by other users to prove or refute the interpretations

Aratta Data Model

Aratta uses **EIAH conceptual model** which is included three major classes of entities:

- Temporal
- Spatial
- Human (actors and actions)

Persons (as subclass of human entities), Works (monuments and sites) and Geographical Names (as subclass of spatial entities), Historical Periods and Events (as subclass of temporal entities), as well as (Architectural) Terms (which is the abstract level of all classes).



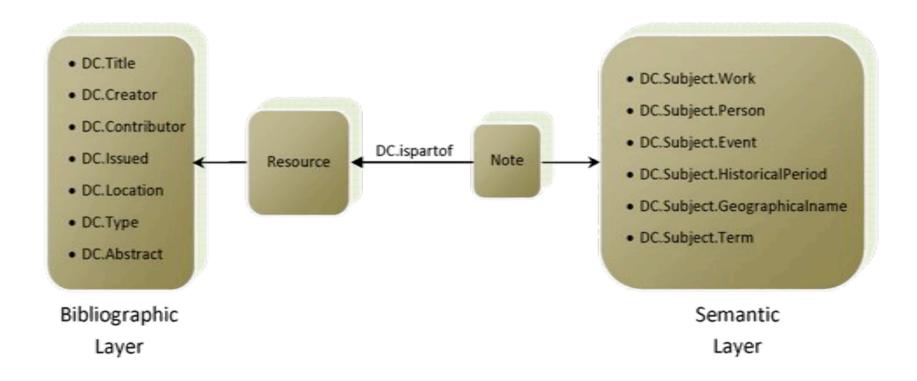
Aratta Data Model: DC Elements in Aratta

• To cover the Semantic layer we need more DC **Subject** Refinements

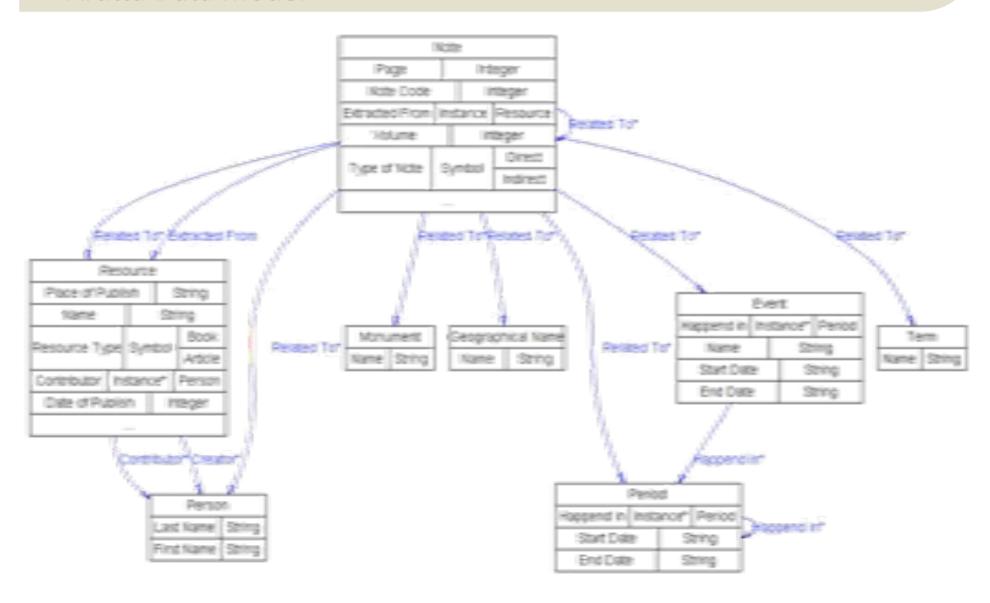
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Related Event	http://eiah.org/en/Entries#Event
	An event that has effect in history of architecture
Related Geographical Name	http://eiah.org/en/Entries#Geographic Name
	A proper noun that designates a place
Related Historical Period	http://eiah.org/en/Entries#Historical Period
	The historical periods used in EIAH
Related Person	http://eiah.org/en/Entries#Person
	The name of an individual pertaining to the Iranian architectural and urban history
Related Term	http://eiah.org/en/Entries#Term
	A technical word or phrase used in the context of Iranian
	architectural and urban history
Related Work (monument and site)	http://eiah.org/en/Entries#Work
	A monument, building, historical site, etc. pertaining to the
	Iranian architectural and urban history, Containing movable ones

Aratta Data Model: DC Elements in Aratta

• The Description Set of Note and its Resource



Aratta Data Model



Implementation of Aratta

- Customizing Media Wiki
- Adding Semantic Wiki Extension
- Implementing the Aratta data model
- Producing Semantic Form
- customizations for Persian language such as right to left script, full Unicode support and Persian calendar
- Simple gadget to work with word processor software



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خلى تفكتارى،

نام این بروزه برگرفته است از نام نسفن پاستانی کمشده ای به نام آرنه که در برخی استاد برجای ملده از نمدنهای بین انبیرس به آن اشاره شدالت برخی باستار شناسل بر اساس بافتحاق جدید باستار شناسی در منطقه جبوفت بر این باورند که نسس گسنده آز که در جبوفت واقق بوزداست

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- یکی از نکات بسیار یا اهدیت در مورد این نمدن کشه الواج بحثه شدهایت که نوعی حظ ناشناخته بر روی آن درج شده است این مطلب نتال دهنده آل است که این نمان دارای خط بودهاست
- ناکته جانب نوجه دیکر النب احتمالی یک بایگانی از این الواح است شایان داکر است این نوعها با خطی دیگر در بنت توح نتباه الداری

شده اند. بوسف مجیدزارد، باستان شناسی که سربرستی حقاریها را در عهده دارد. بر این بازر است که احتیالاً این خطوط یادداکنتهایی مستول بارگانی یا همان گنابدار است به بیال دیگر اگر این فرض صحیح بکشد این بالداشتها اولين سوبة برجسب الفارى اطاؤهاني بافسال مثاداته كشف شده هز جهال است به هدين دليل ابن بروزه كه سعى دارد الشيخانةاي از بالداشتهاي برناشت شده از هرافه الند و امكان دسترسي به أنها را از طویق برجسید آفاری آسان نماید، آرایه باسیده شد.

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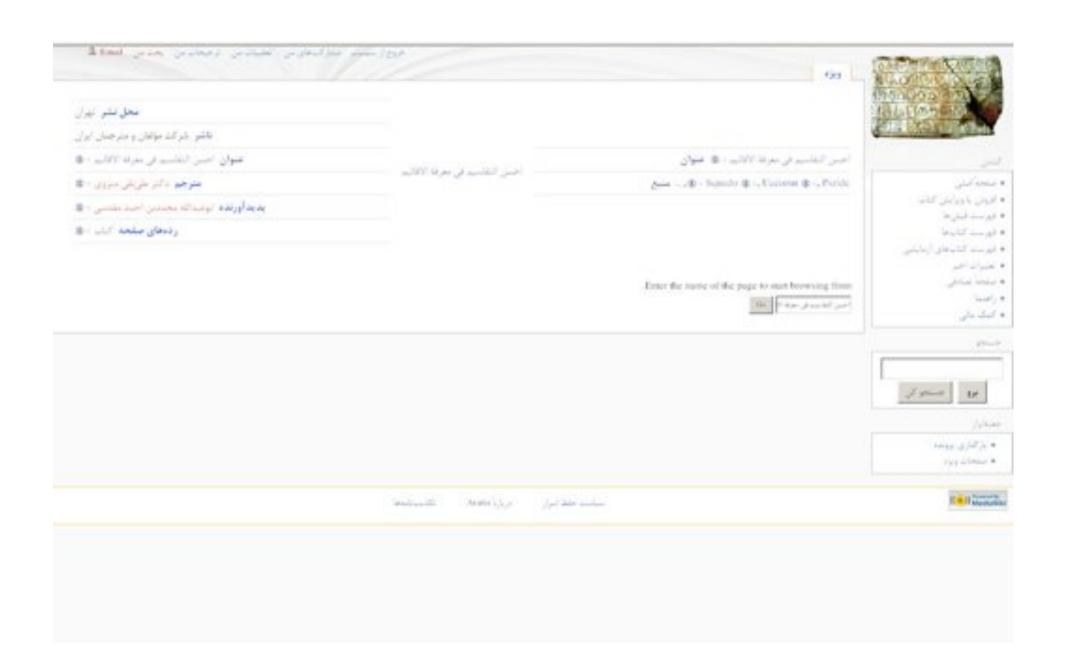
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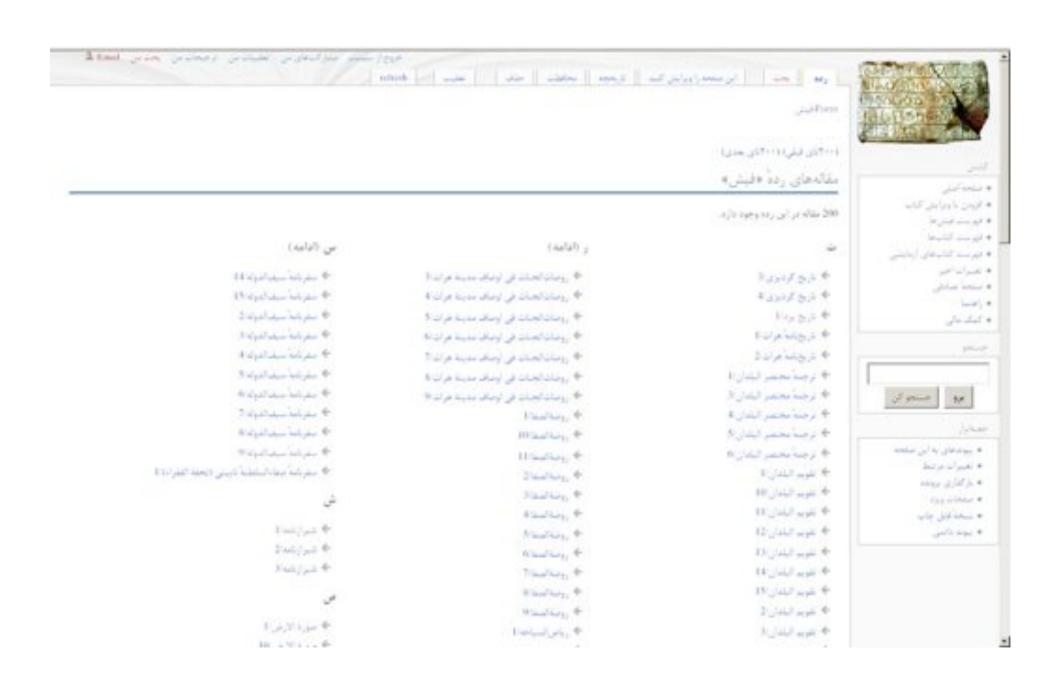
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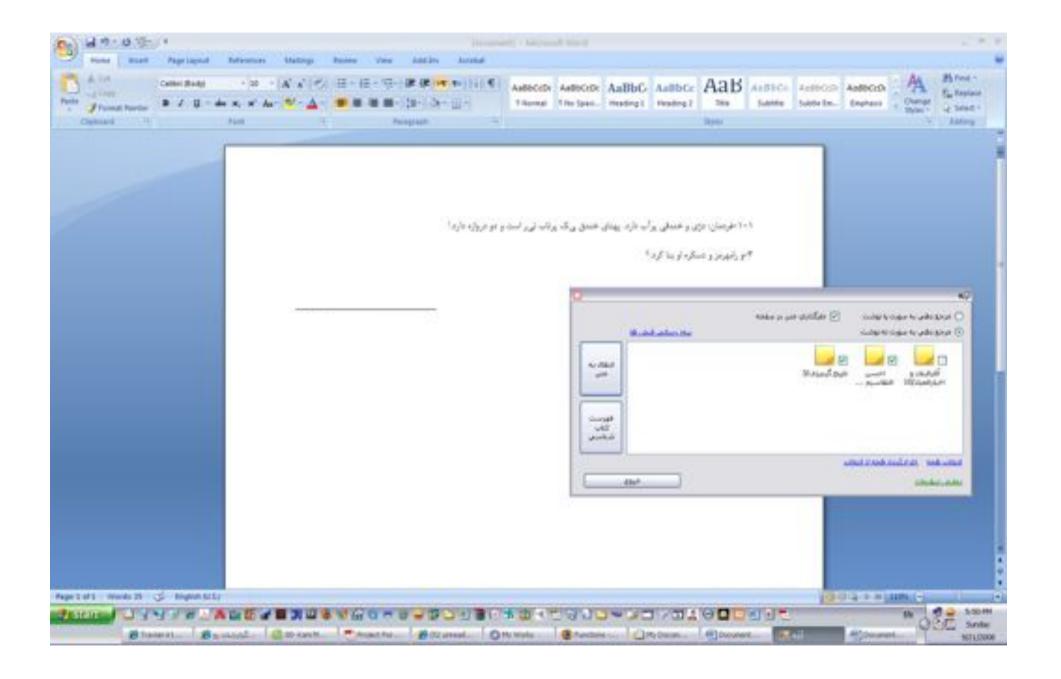
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Implementation of Aratta

- All this tags used to improving EIAH Controlled Vocabulary
- And the EIAH controlled Vocabulary will be used to promote the metadata quality and search system.
- As the whole data is available through RDF it will be easily used by other system and the triples can be used to make more interpretation after development of EIAH ontology or by any other system.
- To motivate expert to use Aratta simple gadgets has been produced (an add on for word processors)





Mapping to the other Schemas

A Simple mapping to CIDOC/CRM

- Person to E21 Person
- Work (monument and site) to E26 Physical Feature
- Geographical Name to E53 Place
- Historical Period to E4 Period
- Event to E5 Event
- Term to E33 Linguistic Object.

Future Works

- Deployment of EIAH controlled vocabulary
- Using EIAH ontology to make interpretations
- Designing a Semi- Automatic system for tag extracting
- Enhancement of usability of tool by adding more features

Aratta: a web-based research tool for collaborative research on Iranian Architectural History

DC-2008: Dublin Core and Metadata Applications, Berlin

