Bridging Versioning and AH in Web Dynamics

Bridging Versioning and AH

- manual, statically defined view
- no personalization
- dynamic access, based on the UM state
- personalized content retrieval

AH view

AH personalization UM

Versioning repository

User web activities in versioned environment

Proxy:
- retrieving and presenting versioned results:
  - history of queries
  - difference between search results and web pages

Versioning repository

UM.ver.1

Search results 1

user

UM.ver.2

Search results 2

New Web page (ver.2)

Page content changed

Old version of Web page (ver.1)

difference

difference

 UM.ver.N

new query

old query

Showing “versioned” results to the user

Use-Cases

Adaptive Web course

University 1

Authoring adaptive course

Course 1 (ver.1)

Refining course 1, Re-using course structure

Course 1 (ver.2)

University 2

Authoring adaptive course

Course 2

UM.ver.1

UM.ver.2

UM.ver.N

student

student

UM2.ver.1

UM2.ver.2

UM2.ver.N

User 1

User 2

logging user behaviour

user gets the recommendation

New Web page (ver.2)

old query

new query

User taking a course

Actions taken by the docent

University Courses

Recommendation System

ratings

products

Old.product. ratings

Product. old.ver.

New.product. ratings

Product. new.ver.

UM.ver.1

UM.ver.2

updated user preferences with new product

comparing UM steps to follow the successful recommendations of the others

Student taking a course

[Merging UM values Updating User profile]