

Building Adaptation/Personalization Into Ensemble Portal

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Adaptation/Personalization (In The Context Of Ensemble)

- Means to maintain awareness of
 - Page visits, Time spent viewing/reading, Words produced (forums), etc
- Overall or within certain timeframe (weekly)
- Produced in a **centralized** manner (central user model, central adaptation provider)

The Big Picture: Our Own Portal (1)

Knowledge Tree - Variables

http://adapt2.sis.pitt.edu/kt/content/Show?id=305

Brusilovsky, Peter | Administrators
Reload | Logout

INFSCI 0017: Object-Oriented Programming I (Java I) > Variables

Variables

Variables [Sosnovsky, Sergey]

Folders/Documents

- D** Variable Declaration (WebEx) [Hsiao, Sharon (I-Han)]
- D** Variable Initialization (WebEx) [Hsiao, Sharon (I-Han)]
- D** HelloWorld (WebEx) [Hsiao, Sharon (I-Han)]
- D** Dark green color of the person means **great progress** (actual value 86%) with this resource.
- D** Very light Green color of the background means **fair progress of your classmates**(actual value 19%) with this resource.
- Q** Variables [5] (QuizJET) [an]

Individual and group social navigation

- Zero to minimal individual/group click traffic
- Maximal individual/group click traffic
- User is "ahead" of the group
- User is "behind" the group

Mouse-over info

The Big Picture: Our Own Portal (2)

http://adapt2.sis.pitt.edu/kt/ensemble/java_adapt.html

Object-Oriented Programming I (Java I)

This collection of resources provides introduction to the concepts, principles, and skills of programming, including compilers, algorithms, and problem solving using a high level programming language such as Java.

Variables

- [Variable Declaration \(WebEx\)](#)
- [Variable Initialization \(WebEx\)](#)
- [HelloWorld \(WebEx\)](#)
- **Darker Green shade means good progress** (actual value 27 interactions with this resource.)
- [Variables \[5\] \(QuizJET\)](#)
- [Variables \[4\] \(QuizJET\)](#)
- [Variables \[5\] \(QuizJET\)](#)

Group-based social navigation

- Zero to minimal click traffic
- Maximal click traffic

Objects

Classes

“Static”
HTML

The Big Picture: Ensemble Portal

The screenshot shows the Ensemble Portal interface. At the top, there's a navigation bar with 'ENSEMBLE HOME', 'LOGIN', 'SEARCH', 'ABOUT', and 'CONTACT'. The main content area features a table of resources. A callout box explains the color-coded progress indicator: 'Dark Green shade means great progress (actual value 181 interactions with this resource.)'. Another callout points to a 'Mouse-over info' tooltip. On the right, there's a 'BROWSE BY TERMS' section with various categories like 'Target Audiences' and 'Curriculum Categories'. A 'BETA' stamp is visible in the top right corner.

Textbook Post for CS1 Community Site |

http://www.computingportal.org/content-type/283/textbook_post

Google

ensemble Connecting Computing Educators

ENSEMBLE HOME LOGIN SEARCH ABOUT CONTACT

Textbook Post for CS1 Community Site

Type: Textbook Post

Title	Type	Name	Post date
Squeak: Learn Programming with Robots Review	Textbook Post	sfletche	10/05/2009 - 13:32
Python Programming: An	Textbook	sfletche	10/05/2009 - 13:31
Dark Green shade means great progress (actual value 181 interactions with this resource.)			
Review	Post		
How to Think Like a Computer Scientist: Learning with Python Review	Textbook Post	sfletche	10/05/2009 - 13:23
	Textbook		10/05/2009

Group-based social navigation

- Zero to minimal click traffic
-
-
-
- Maximal click traffic

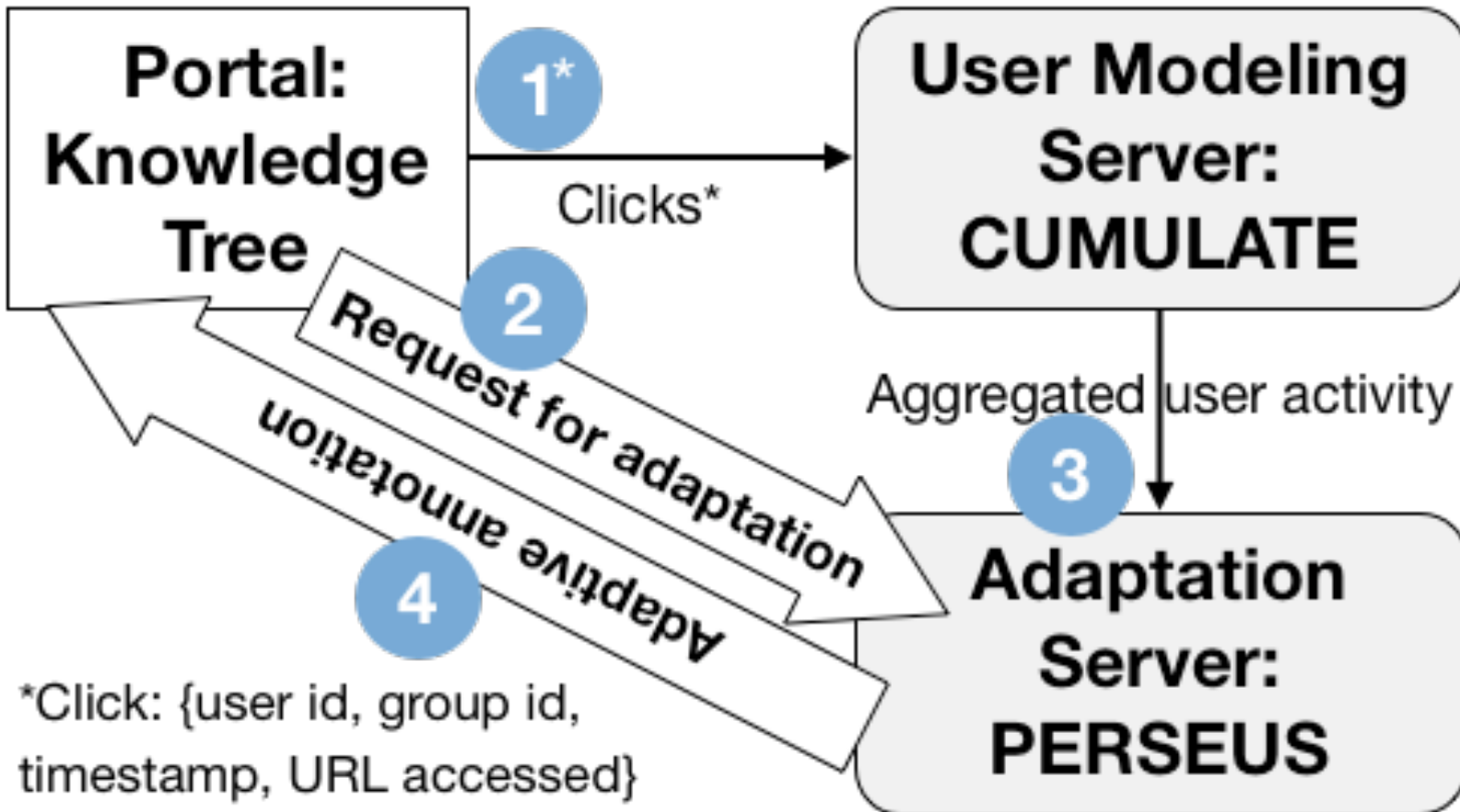
Mouse-over info

BROWSE BY TERMS

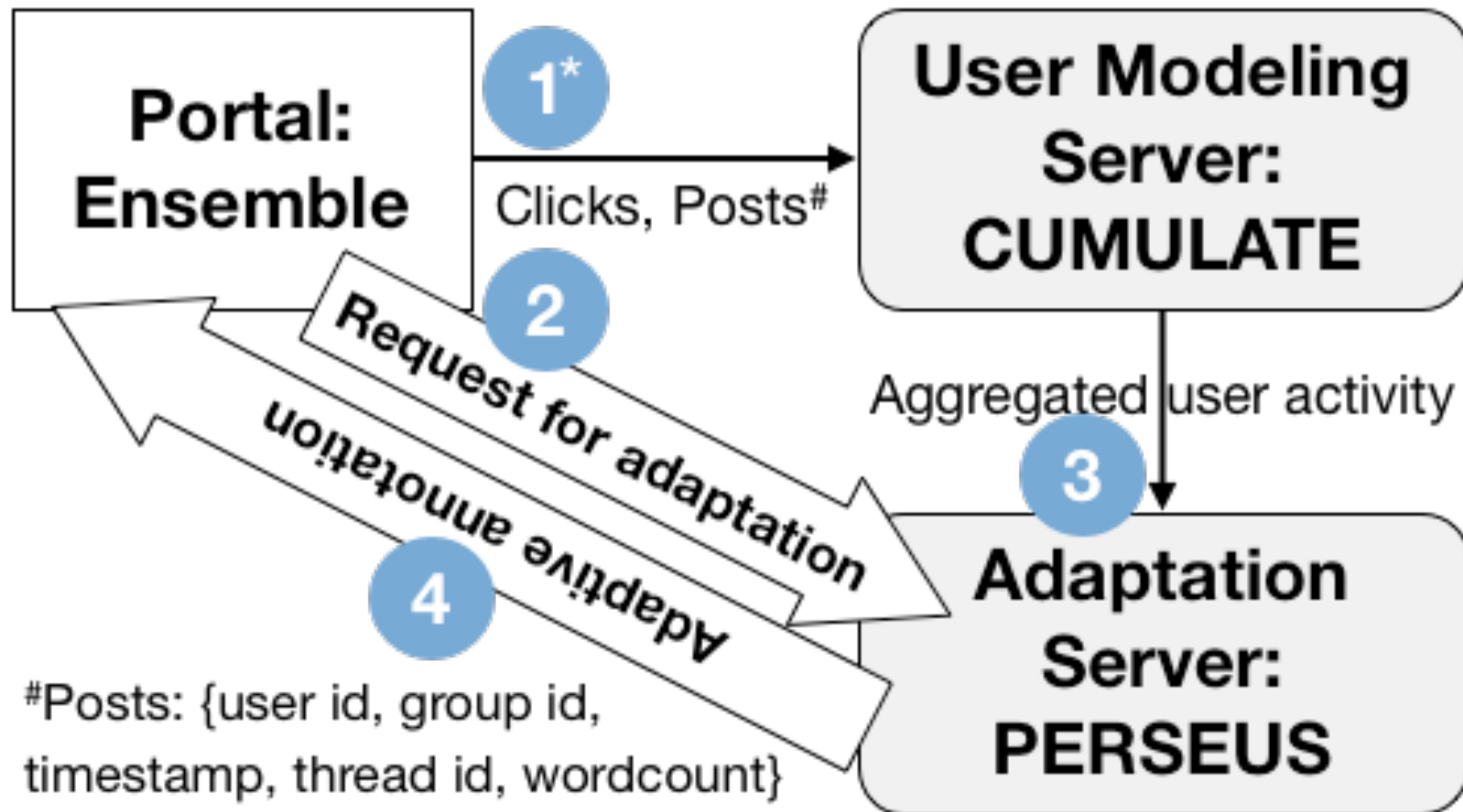
CS1 Terms

- Target Audiences (74)
 - CS Majors (16)
 - CS0 (1)
 - Elementary Students (6)
 - Middle School Students (7)
 - High School Students (20)
 - AP Computer Science (10)
 - Non-CS Majors (12) [+] FEEDBACK
 - Introduction to Programming (2)
- Curriculum Categories (15)
- Algorithms-First (2)
- Functional First (2)

How Is It Done: Our Portal



How Do We Do It: Ensemble Portal



Building Adaptation/Personalization Into Ensemble Portal: To Do List

- Reporting user activity
 - Drupal plug-in/add-on to send log data to UMS
 - User Modeling Server (UMS) at University of Pittsburgh / Custom installation
- Adaptation Server
 - PERSEUS at Pitt / Custom installation
 - Existing or custom adaptation service
- Building Adaptation/Personalization Support Into Drupal

Maintaining Awareness On Ensemble Portal: Thinking Out Loud

- “hi5’s”: most active discussions (words), most viewed pages (clicks, TSR), most active groups (words+clicks/TSR)
... overall or within certain window (week)
+ archival view of “hi5’s”
- Activity signature (clicks, TSR) for every link or forum thread (clicks, TSR, words)

Accessing Pitt Tools via Ensemble

- Total accesses 13684, including:
- Annotated examples (C, Java, SQL): 12 146
- SQL Problems: 77
- Java Problems: 324
- All accesses are anonymous under “ensemble meta user”

Thank You!