

Mashup Development

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Week Nine

CS-498

Mashup Editors

- [Yahoo Pipes](#)
- [Google Mashup Editor](#) (NLA)
- [Microsoft Popfly](#) (Discontinue on August 24th 2009)
- [Intel Mash Maker](#)
- [IBM QEDWiki](#) (Now [IBM Lotus Mashup Maker](#))

Mashup Editor: IBM Lotus Mashup Maker

- IBM Lotus Mashup Maker includes:
 - A browser-based tool that provides easy assembly of new mashups
 - A rich set of out-of-the-box, business-ready widgets
 - A catalog for finding and sharing widgets and mashups
 - A builder for the creation of widgets that access enterprise systems

Source: <http://www-03.ibm.com/press/us/en/pressrelease/23378.wss>

Mashup Editor: Intel Mash Maker

- Build mashups on-the-fly - combine content from multiple sources such as web content, videos, maps, RSS feeds, photos, and display in one place
- Manage your mashups - tools that let you manipulate, save as favorites, edit, sort, annotate, and share your mashups with friends, or with social network sites
- Design and tailor your mashup your way - visualization features that let you customize, control the layout, and view your mashups any way you want
- Adapt your mashup to your persona - inherent enabling technology delivers on-demand information, adapts to your areas of interest and preferences

DEMO at the END

<http://mashmaker.intel.com/web/learnmore.html>

Current Services Provide

- Users can create mashups without programming
- Drag-and-drop services
- Operators (Union, Intersection, ...)
- Feeds and/or user input
- Visual connections

Hurdles

- Knowledge of mashups input and outputs
- Intermediate steps to generate the desired outputs (large number of services, complex filters, merging options)

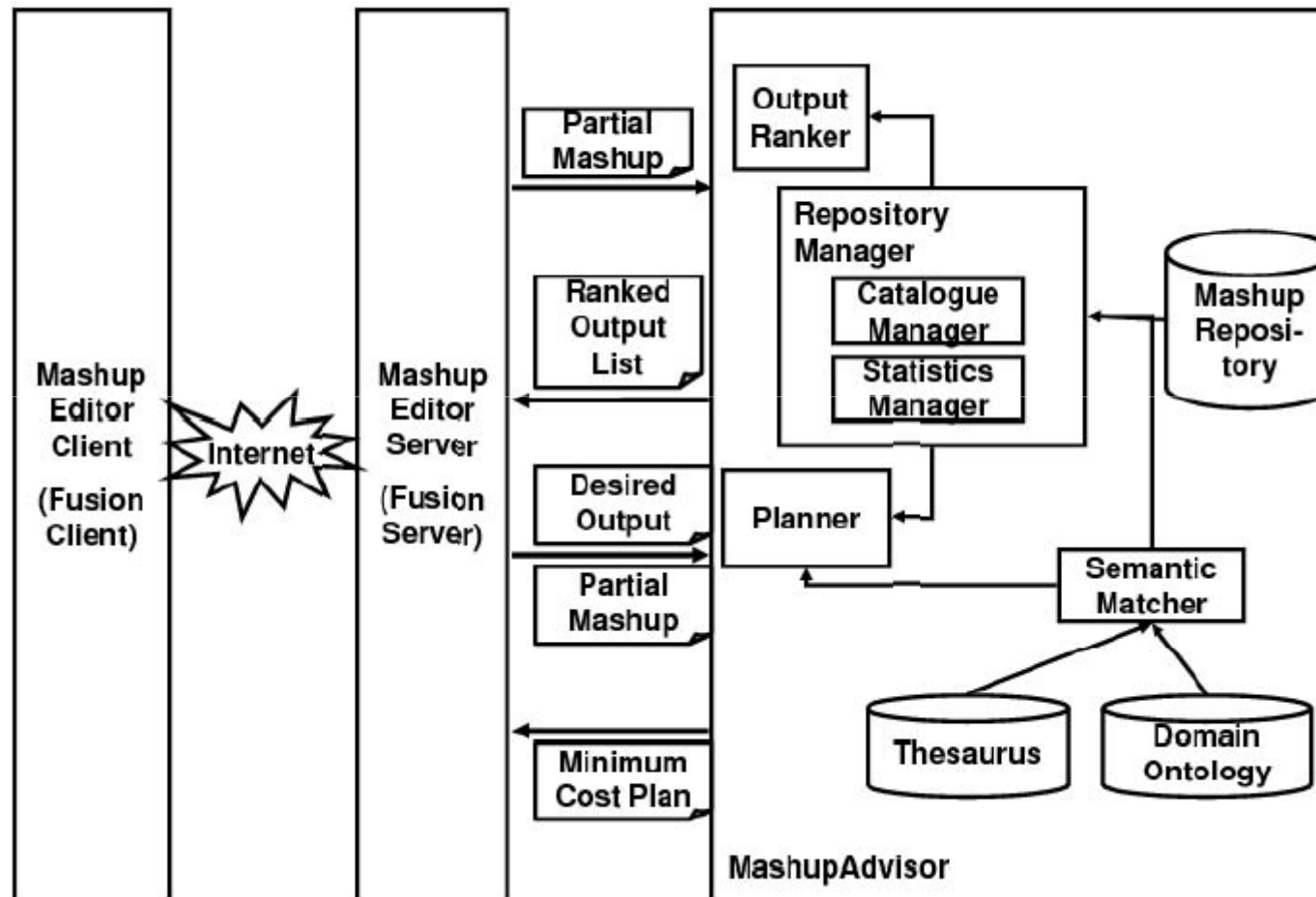
MashupAdvisor

- Aids at assisting mashup creation:
 1. Exploits repositories of mashups, created by a communittee of users, to estimate the popularity of specific outputs, and makes suggestions using conditional probability that an output will be included, given the current state of the mashup
 - Ex: Given a business news feed
 - Plot company stock prices
 - Map store locations
 - Display fonder information/bio

MashupAdvisor Continue

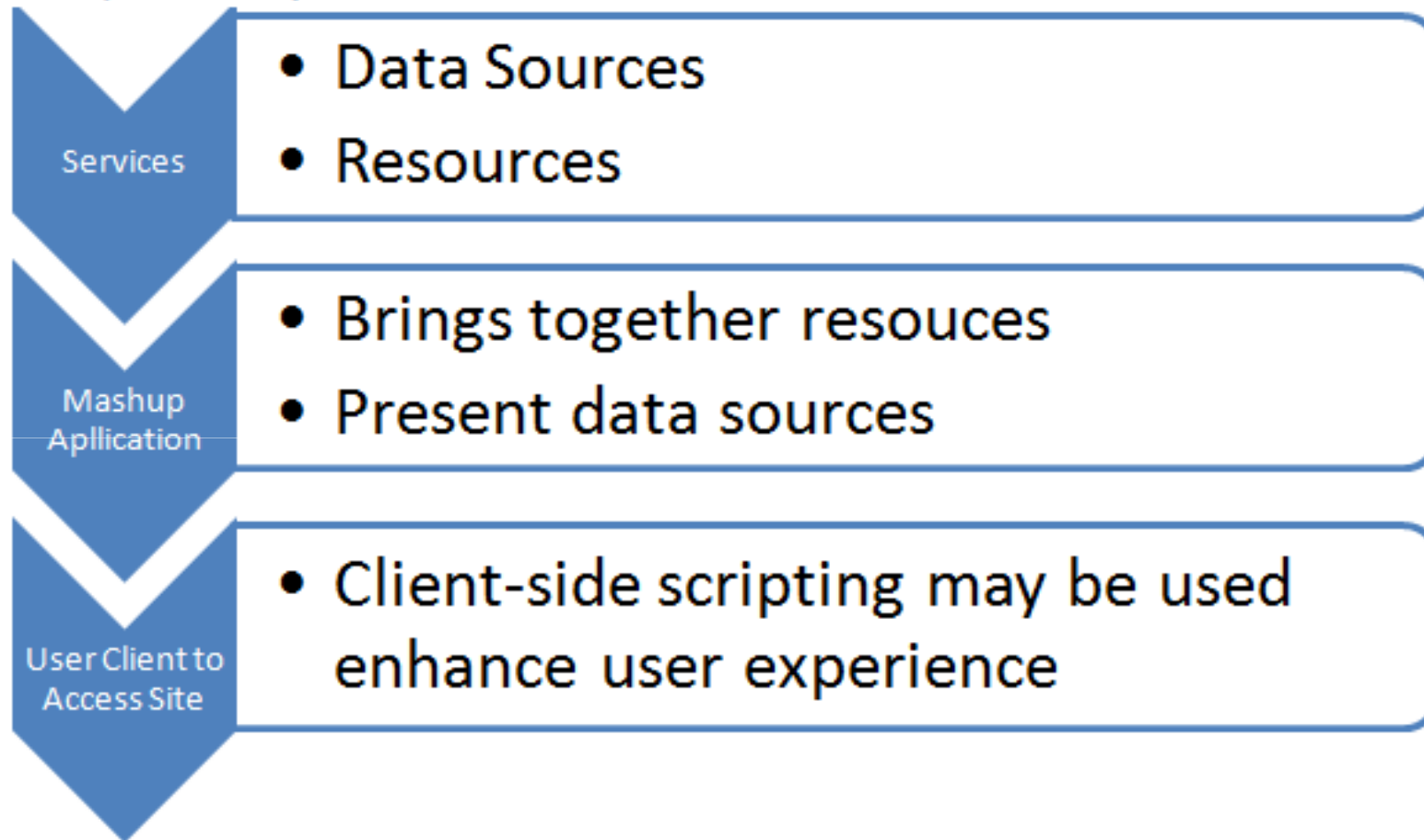
2. User accepts suggestions
 3. MashupAdvisor automatically selects and configures the required inputs and adds the required filters, joins and services calls to the mashup (AI metric planning techniques to find maximum plan)
- Benefit:
 1. Shorter development time
 2. Higher quality plans
 3. Unthought-of-yet-interesting outputs

MashupAdvisor System Architecture



Mashup Architecture

3 Major Level/Tier:



Source: http://articles.techrepublic.com.com/5100-10878_11-6156271.html