

# SELECT EU Project Status



**by:**

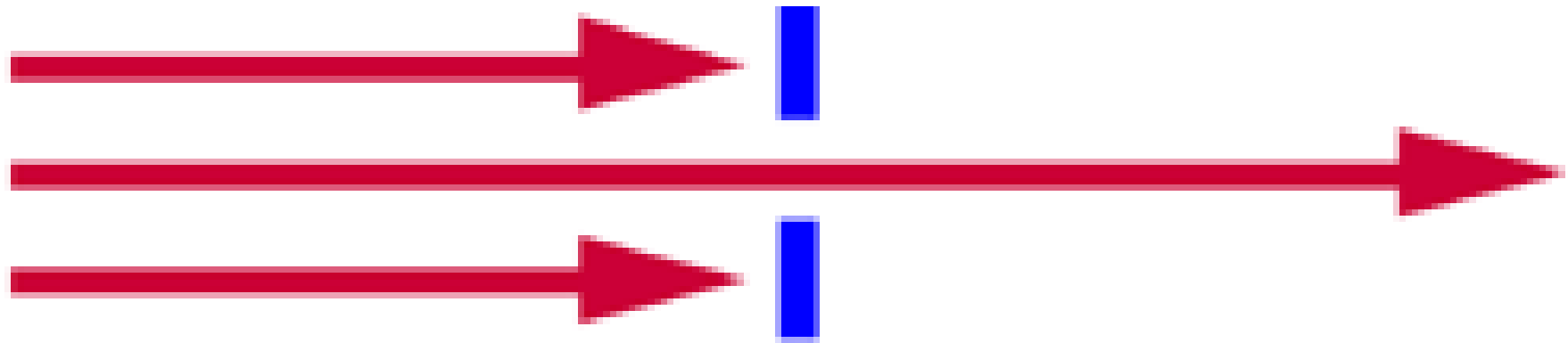
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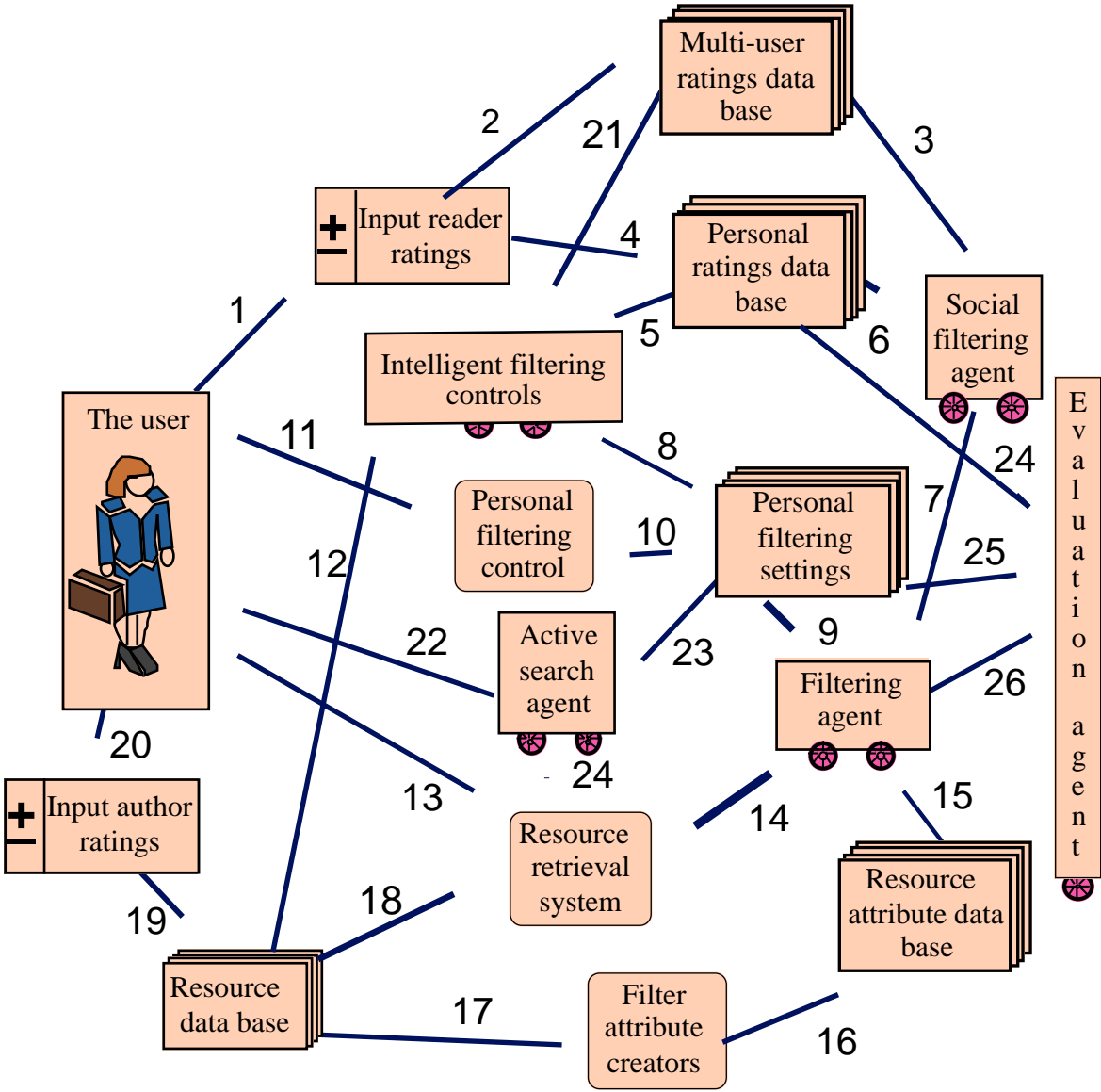
<http://www.dsv.su.se/jpalme>

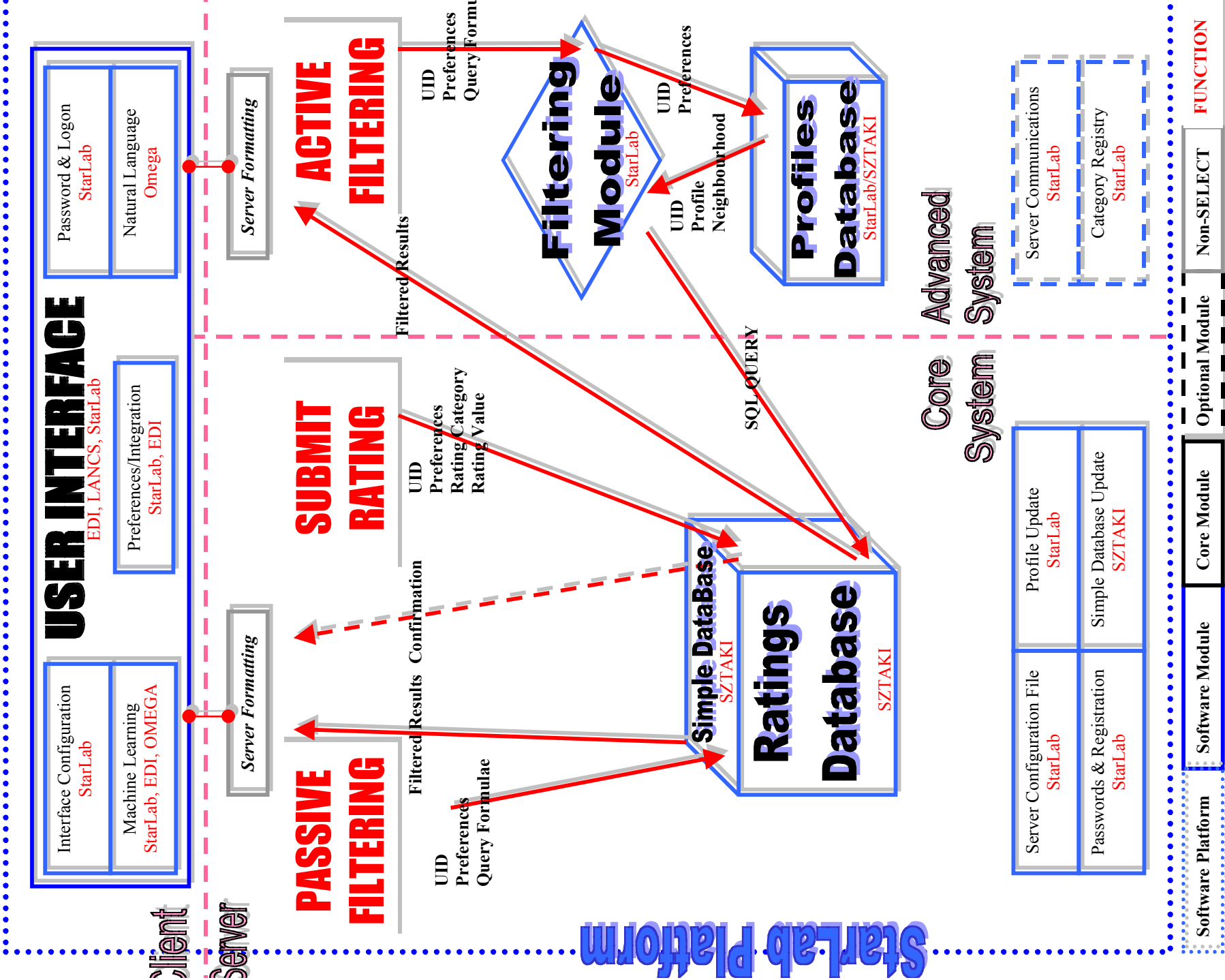
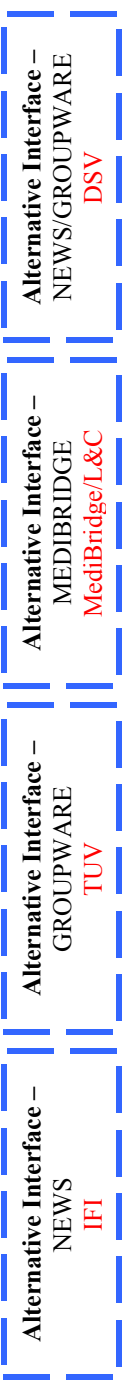


# SELECT

Filtering and  
Rating (=collaborative filtering or  
social filtering)

# Original SELECT architecture proposal





# Types of ratings

- ➔ **Manual by user, one or more categories?**
- ➔ **Automatic by observation of user behaviour.**
- ➔ **Automatic by linguistic analysis of document.**

# Problem with sparse matrix

There are hundreds of millions of web documents. Our data base will not cover more than a very small percentage.

Method 1: Search with a search engine, then submit the result set to a ratings engine.

Method 2: Search in a combined search and ratings engine, which only stores rated documents.

Method 3: Search for new documents in my area of interest and with good ratings.

# Types of filtering

Simple rating = Not personalized

Advanced rating = Personalized

## How to request filtering

Choice 1: Specify parameters, like:

- Upper quartile or median
- Based on manual or automatic ratings
- Different algorithms

Choice 2: Choose from a set of available profiles

# Protocol operations

Login

Logout

Get-service-description-  
list

Get-service-description

Set-service-description

Set-profile

Get-profile

Send-rating

Get-atomic-ratings

Simple-Search

Advanced-Search

Evaluate

Exchange-ratings-data



# Example of a Protocol Action

## Simple Search query:

Search:  Internet  
 Select directory  
 News  
 Only unseen

Search query:

Limit to Country:  Limit to Language:   
Result format:  HTML  XML  
 Personalized search  
Max no of docs:

Context:  general  business  leisure  shopping  research  politics  
 Use my interest profile  Use my keywords  Use only manual keywords and profile

# Example of a Response

```
HTTP/1.1 200 OK
Content-Length: 569
Content-Type: application/xml
Server: Select 1.0
Date: 7 July 1999 19:58:23 +0200
```

```
<?xml version="1.0"
standalone="no"?>
```

```
<!DOCTYPE simple-search-response
SYSTEM
```

```
"http://sel.nu/v1.0/simple-
search-response.dtd">
```

```
<simple-search-response>
<resource rating="88"
  title="Kenyan flowers"
```

```
uri="http://www.flowers.com/keny
a/">
```

An overview of flowers found in Kenya.

```
</resource>
<resource rating="78"
  title="Kiwi flowers"
```

```
uri="http://www.flowers.com/kiwi
/">
```

An overview of flowers found in Kiwi.

```
</resource>
</simple-search-response>
```