

User Modeling and Personalization 2: AEHS & Stereotypes

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Exercise 1: Adaptive Educational Hypermedia Systems (AEHS)

Develop an AEHS for publications based on the Simple AEHS, as shown in the lecture. The AEHS uses red and green labels to illustrate whether a publication is relevant. Besides the functionality of the Simple AEHS, the following features shall be implemented:

- ► Categories are like publications hierarchically structured based on prerequisites (preg).
- Publications are structured by categories. The categories shall be labeled like the publications. A category shall be labeled green if it contains at least one relevant publication.
- ▶ We consider that a user *understood* a publication after reading.
- ▶ If a user read all publications from a category and all sub-categories are marked as understood, then the category shall be marked as understood.
- Understood publications and categories shall not be marked as relevant any longer.

Exercise:

1. Create an appropriate AEHS by specifying the Document Space (DOCS), User Model (UM), Observations (OBS) and the Adaption Component (AC).



Exercise 2: User Modeling with Stereotypes

A news portal is used to deliver personalized news and advertisements. The user modeling is performed by means of stereotypes.

- 1. Characterize the following stereotypes:
 - "Businessman"
 - ► "Sportsman"
 - "Culture interested"
- 2. In certain situations, certain stereotypes are activated. Define practical Triggers for the following situations:
 - Situation A: User reads an article from the category "politics".
 - Situation B: User subscribes to an RSS feed from the category "sports".
 - ► Situation C: User comments on an article in the feuilleton
- 3. Define how triggers and stereotypes should be used to build up the user profile. How does a user profile look like after the occurrence of situation C and B.