

User Modeling and Personalization Exercise 2: User Modeling with Stereotypes

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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 "literature" section.
- 3. Define how triggers and stereotypes should be used to build up the user profile. What does a user profile look like after the occurrence of situation C and B.



1.1 - Stereotypes

Stereotype:

Attribute	Value	Rating
Facet:	1	
Business	1	
Politics	4	
Culture		J
Sport		
Interested in Advertisements:		



1.2 - Triggers

Stereotype	Rating
	L /



1.3 - Stereotype User Profile

Attribute	Value	Rating	Justification
Facet:		7/	
Business			7-111
Politics		/	
Culture	7		
Sport			
Interested in Advertisements:			1



One idea for the update of the user profile. . .

$$value_{new} = \frac{value_{Stereotype} + value_{Userprofile}}{2}$$

$$rating_{new} = \frac{rating_{Trigger} + rating_{Stereotype} + rating_{Userprofile}}{3}$$