



Fig. 18.1. An example cultural portal

occur in any order) and optional (e.g., the property *lname* is not used by the resource *&r9*). Note that due to *multiple classification*, the resource *&r11* is classified under the classes *Painting* and *ExtResource* (not pairwise related with a subsumption relationship) and therefore *&r1* can be described using properties attributed to both classes.

Compared to the *triple*-based representation, the *graph*-based representation of RDF/S schema and resource descriptions provides a number of significant advantages. End-users are liberated from the arduous task of expressing joins over individual triples (i.e., edges) in order to navigate/filter complex description graphs. Developers, can more easily understand the semantics of