

# Open Information Systems Project - Conceptual Schema

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March 11, 2011

## 1 Description

We're proposing an ontology for RFPs<sup>1</sup> systems that manage movie rentals. Such systems would have the following process flow:

1. Clients make requests: The client can either choose an specific movie or if he is uncertain about which movie to rent, choose some desired movie properties and then the proposer will recommend movies based on the constraints he defined.

Constraints can be: genres, name of actors, director, year of release, etc.

The client can also put a target price to pay (which can be accepted or raised by the proposer).

As an additional option, the client can choose a limit date in which he accepts proposals, in case he wants the movies until a specific date.

2. Video store owners look at the requests and make proposals, accepting the proposed price (if there's one) or adding their own price.
3. Clients choose best proposal

Example:

1. Client A make a requests for: 2 comedy movies with Jim Carrey and 1 Action movie from the last year.
2. Video store owners look at the requests and make proposals: (Ace Ventura, The Mask and Inception for X €).
3. Clients choose one of the proposals and they complete the transaction (or decline all the proposals).

About the ontology:

- At the time a request is made the client is not provided with the list of movies that match it, that list is part of the proposal and is going to be constructed by the video store owners, that's why we attached every attribute of the Movie entity to the Request entity.
- Only the most confusing entities have notes and roles do not.

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<sup>1</sup>Request For Proposal