Domain Model

Version history

Version	Date	Description	Authors
1.0	29.11.2006	First version in elaboration	SchnL1, ZumsR1
1.0.1	22.12.2006	Changes in the domain model (administrator removed)	SchnL1

Domain model
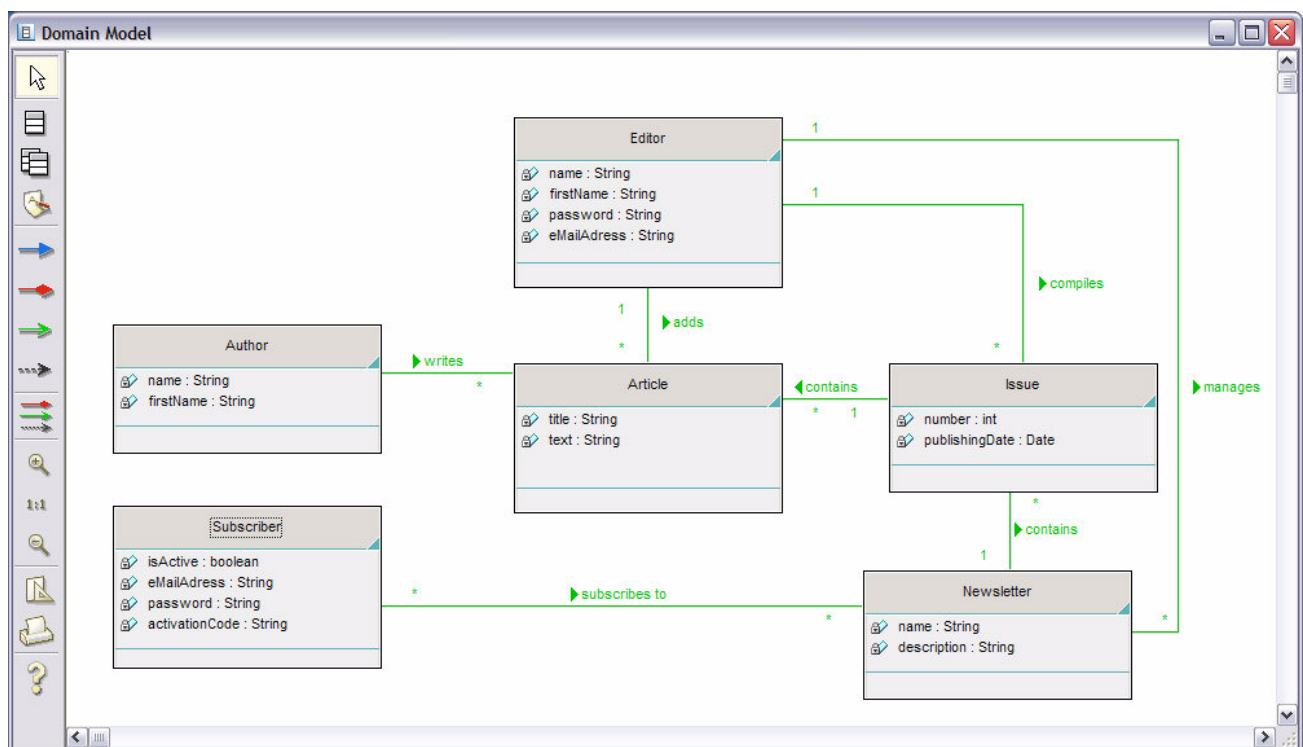
Entities

Author

The author writes articles and sends them to the editor but does not directly interact with the system.

Subscriber

Reads the newsletter issues and is able to subscribe to the several newsletters provided by the system.

Editor

The editor is the administrator of the newsletter system itself. He manages the issues, articles and newsletters. He receives the articles from the authors.

Article

The article is the informational unit in the system. Written by the author and read by the subscriber. Articles are added by the editor to an issue for publication.

Issue

The issue is a collection of articles which are sent to the subscribers. Managed by the editor it is published whenever he wants.

Newsletter

The newsletter describes the "topic" of the issues a subscriber receives. It is the entity a subscriber has to subscribe to receive it's issues.

Relationships

Author (writes) Article – n:m

Authors write Articles for the newsletter system. More than one author can write an article and more than one article can be written by an author. The author itself is not able to log in to the system. Therefore the author does not need a password and an email address.

Editor (adds) Article – 1:n

The editor is able to add an article which he received from a author to the system because the author himself does not directly interact with the system.

Editor (compiles) Issue – 1:n

One or more issues are being compiled at any time the editor wants to publish one by the editor himself.

Editor (manages) Newsletter – 1:n

The editor is able to add, delete and change a newsletter in the system.

Issue (contains) Article – 1:n

Issues contain one or more articles that the editor has assigned to it.

Newsletter (contains) Issue – 1:n

Newsletters have one or more issues which contain several articles

Subscriber (subscribes to) Newsletter – n:m

The subscriber is able to subscribe (when his account is active) to various newsletters. One or more subscribers are able to subscribe to one or more newsletters.