Conceptual Data Model - Artifact 4

This artitifact contains a Conceptual Domain Model with the identification and description of the entities of the domain and the relationships between them. Obtained by using a UML class diagram (picture 1) containing the classes, associations, multiplicity and roles. For each class, the attributes, associations and constraints are included in the class diagram.

Picture 1: UML Class Diagram of the conceptual model.

Notes

A banned member cannot log in to his account, but his information stays in the database.

When a manager is banned and he's the only manager of a sports complex, that sports complex is also removed (warning popup).

When a sports complex is removed and it's the only sports complex of a manager, he loses the manager status until he adds a new complex.

When a sports complex is removed all the items associated to it are removed.

When a space is removed the rents associated to it are not removed.

A reservation cannot be canceled if there is less than 24h to the reservation.

Revision History

Date	Description
2017/03/22	- Added boolean attribute "openOnWeekends" to the Sports Complex class - Added float attribute "price" to the Space class - Reduced the redundancy of relations by changing 0..* to * - Issues created by managers no longer exist - Added detail about the attribute "duration" in the Rental class: the time scale is in minutes - Connection between Issue - Rental changed to 0..1 - 1 - Added information about quantity of equipment - Deleted Manager class and now it is referred to as a relation - Deleted User's location attribute - Added the condition price > 0 in the Space class - Changed Surface Type to an Enumeration - Dimension class disappeared and that information is now directly related to the Sport - Added Rental State

Date	Description
2017/06/01	- Admin: added accepted field. - Equipment: Removed quantityOccupied field. Added inactive field. - Issue: Add resolved field. - Add notification table. - Rental: Change name of durationInMinutes to duration. Change type of duration to interval. Change type of startTime to time. Add Canceled by Admin rental state. - Space: Add name field.

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