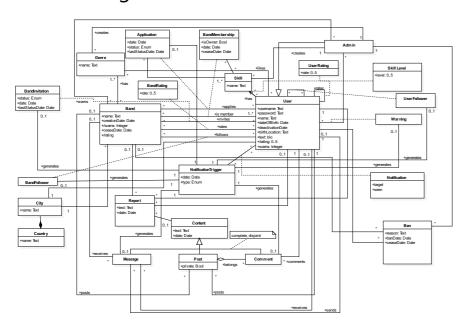
Conceptual Data Model

1. Class Diagram



Constraints

Class	Constraints
User	username NOT NULL UNIQUE password NOT NULL name NOT NULL date of birth < today location NOT NULL
Band	name NOT NULL UNIQUE creation date DEFAULT today
Content	date DEFAULT today text NOT NULL
Post	If post has a band, user who posts has to be member of the band private NOT NULL
Ban	Only one ban without cease date Ban → (User ⊕ Band)
NotificationTrigger	type {warning, comment, follow, band invitation, application, message} NotificationTrigger (generated by) \rightarrow (UserFollower \oplus BandFollower \oplus Message \oplus Comment \oplus Application \oplus Invitation \oplus Warning)
Message	if message has a band, sender has to be member of the band Message (received by) \rightarrow (User \oplus Band)

Report	text NOT NULL
	date DEFAULT today
	Report → (Content ⊕ User ⊕ Band)
Country	name NOT NULL
City	name NOT NULL
BandInvitation	status {pending, accepted, rejected, cancelled}
Genre	name NOT NULL UNIQUE
Skill	name NOT NULL UNIQUE
Application	status: {canceled, pending, accepted, rejected}
	date DEFAULT today
BandMembership	date DEFAULT today
	isOwner NOT NULL

2. Aditional Business Rules

Business Rules

If the message is sent on behalf of the band, the sender has to be a member of the band.

If content is posted on behalf of the band, the poster has to be a member of the band.

Revision history

Revision 1

- Updated UML diagram:
 - Notification structure;
 - Admin User structure;
 - Minor modifications;
- Contrains removed from UML Diagram and displayed in a table after it;

GROUP1712, 12/03/2018

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