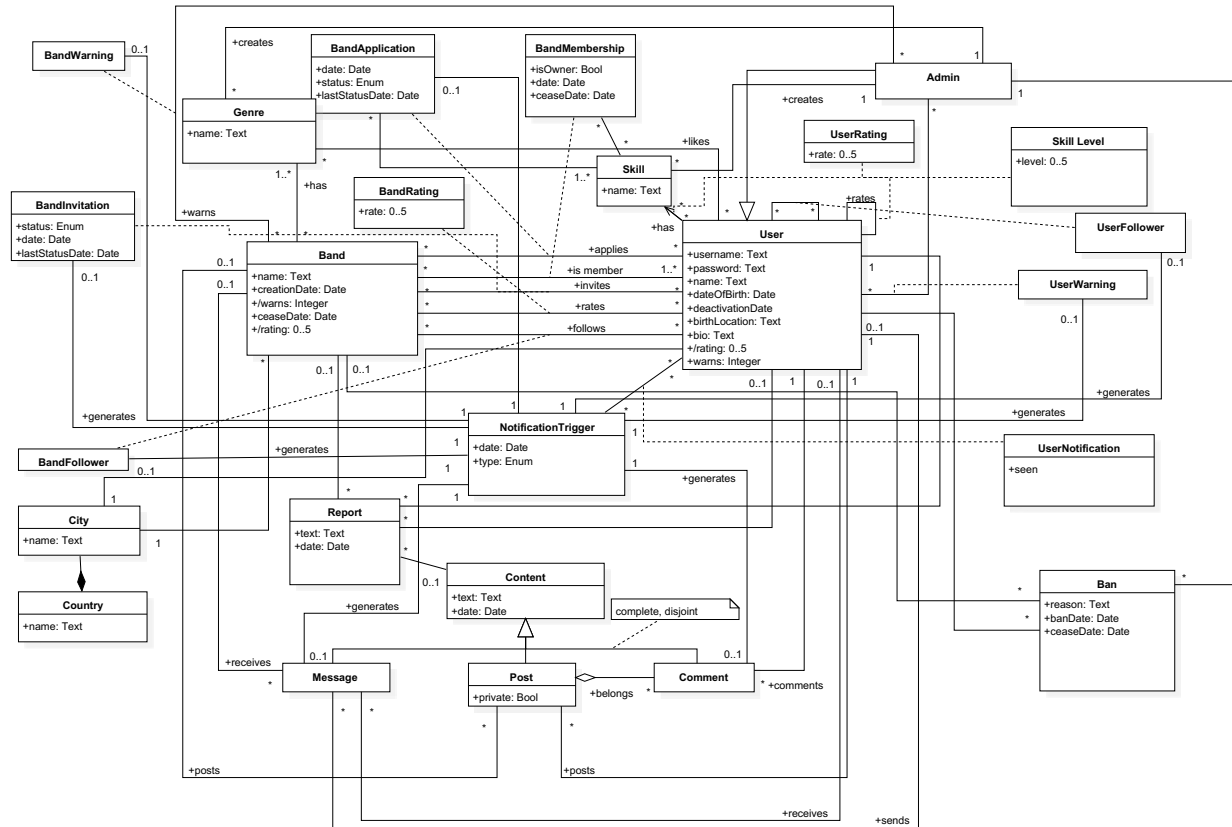


Conceptual Data Model

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 \rightarrow (User \oplus Band)
NotificationTrigger	type {user_follower, band_follower, message, comment, band_application, band_invitation, user_warning, band_warning} NotificationTrigger (generated by) \rightarrow (UserFollower \oplus BandFollower \oplus Message \oplus Comment \oplus BandApplication \oplus BandInvitation \oplus UserWarning \oplus BandWarning) The "generated by" unique connection depends on the type value
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 \rightarrow (Content \oplus User \oplus 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. Additional 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:
 - NotificationTrigger structure and connections;
 - Admin - User structure improved;
 - Minor modifications;
- Constrains removed from UML Diagram and displayed in a table after it;

GROUP1712, 12/03/2018

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