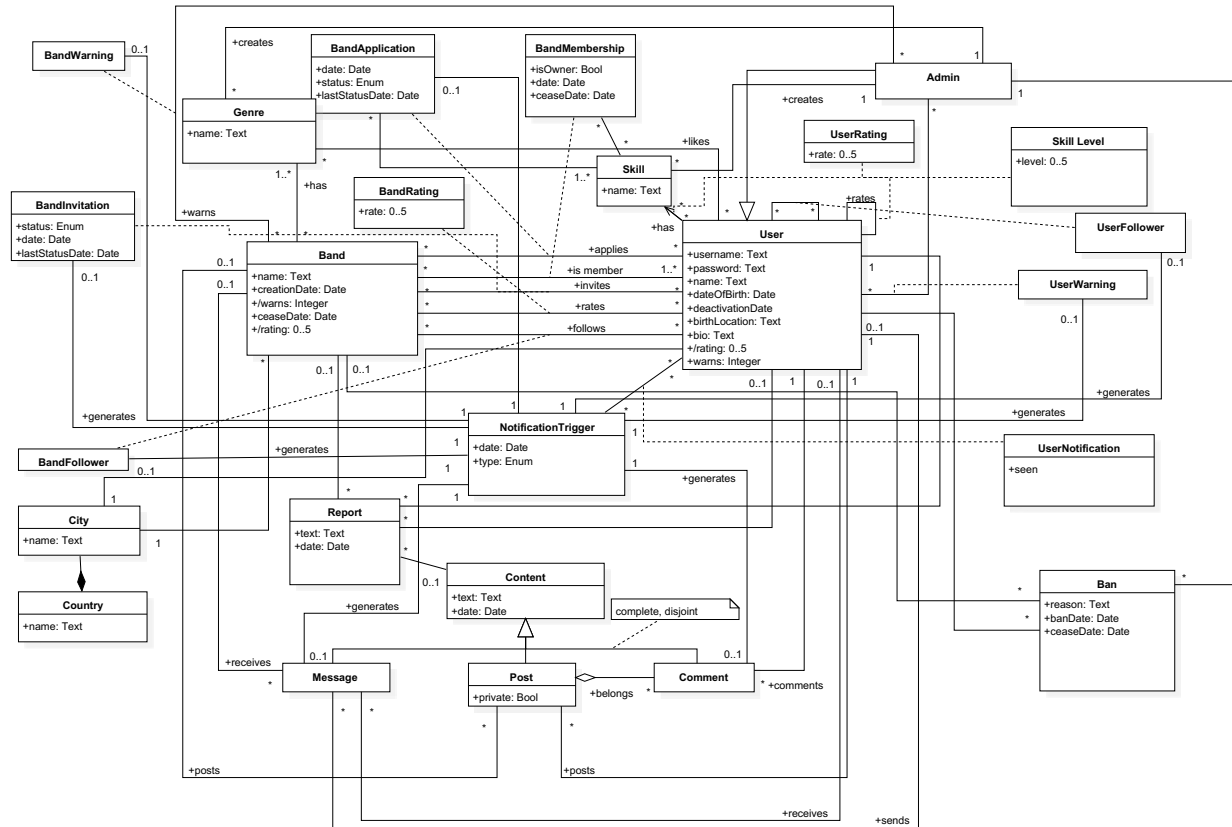


# Conceptual Data Model

## 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, band_invitation_accepted, band_invitation_rejected, band_application_accepted, band_application_rejected} 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: {cancelled, pending, accepted, rejected} date DEFAULT today
BandMembership	date DEFAULT today isOwner NOT NULL
UserSkill	level NOT NULL

## 2. Additional Business Rules

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### 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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