

## Models Description

**Users** - These will be auto-generated models after a user has logged in with Twitter. We will directly associate a Twitter user with our internal user and allow them to auto-login using Twitter OAuth.

**Boards** - Each board will have a privacy setting associated with it. If a board is public, any user can join and post new tacks. If a board is private, any user can view the board, but only those members that are given permission can actually post new tacks to these boards. Boards that are secret are only visible by those that have permission to view and write new tacks. Each board will then need to have a many-to-many relationship with Users, as each User will be able to be part of multiple boards, and each board will have multiple users associated with it.

**Tacks** - Each tack will have a many-to-one relationship with boards as each board can have multiple tacks, but each tack can only be associated with one board. Each tack will also have a many-to-one relationship with a user as each user can have multiple tacks that he or she has posted, but each tack can only have one associated user.

**Notifications** - A many-to-one relationship with User objects as each user can have many notifications, but each notification will be user-specific. Each notification will have an associated text string which describes what the notifications is about. It may also have an associated action such as allowing a user to join a board, denying a user to join a board, etc.

**Comment** - Each comment will have an associated text value which is the comment's content from the user. These will have a many-to-one relationship with Tacks as each tack can have many comments, but each comment belongs to only one tack.

**Tag** - A tag will help users location Tacks and boards in the application. These will be single word strings that are in many to many relationship with Tacks as each tag value can have many associated tacks, and each tack can have many associated tag values. The primary key for these will be the string itself to avoid duplicate tags.