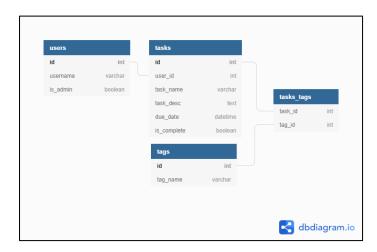
Basic Use Cases for ToDoApp

rr		
User	Normal	Add task
		View a specific task
		View all tasks
		Update task (such as name, description, due date and status)
		Delete task
		Add a tag to a task
		Delete a tag of a task
		Search via tag
		Search via task's name and task's due date
	Admin	View a specific user
		View all users
		Update user (such as name and admin status)
		Delete user
		All operations by a normal user

General Execution Plan

- 1. Add basic models and methods for Task and User
- 2. Add authorisation
- 3. Add UI for forms and index pages
- 4. Add Tag model and setup the association
- 5. Add Tag methods within each Task
- 6. Add searching operations
- 7. Streamline the index pages for users and tasks
- 8. Test the application
- 9. Setup the application for deployment
- 10. Add additional features

Database Model



Execution Plan – with a bit more details

Models and Controllers

- 1. After setting up the model for user and task, authorisation was done in simplified way only with username.
- 2. Users can key in the username they used previously to retrieve their past tasks. Also, if they do not logout, the session is preserved within <code>cookies[:user id]</code>.
- 3. Upon logging in, users can perform CRUD actions on their own tasks.
- 4. Admins (saved within cookies[:is admin]) can perform CRUD actions on users.
- 5. The tag model is associated with the task model via a join table. It is setup such that deleting a task would delete related ActiveRecords in the join table, but the tags are still present in the tag table.
- 6. Creation / linking of tags On a task's new, show and update pages, tags should be able to be added or retrieved, and these chosen tags would be linked to the task.
- 7. Searching can be done either on a task's name, task's due_date or via the tag.

Views

1. Views are done via React, and the React-Bootstrap UI library.