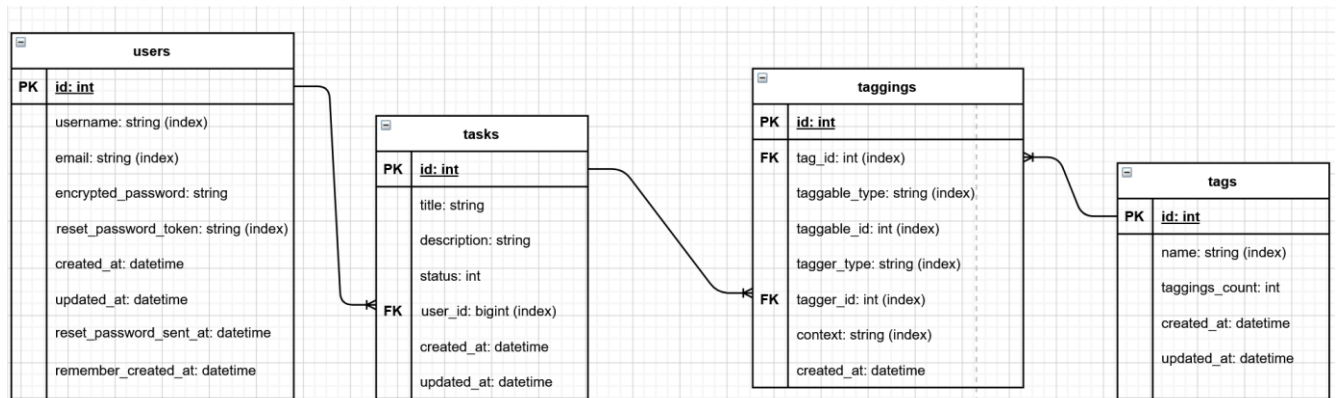


## Database Schema:



## User Manual:

1. Setup a postgresql database with username: postgres and password: secret123#@!. (The required username and password can be changed in database.yml.)
2. Run the command “foreman start -f Procfile.dev”, and navigate to localhost:5000. This should take you to a login page.
3. If an account exists, you can login with your username/email and password. If an account does not exist, navigate to the sign-up page by clicking the link, and create an account.

The image shows two side-by-side forms on a light orange background. The 'Log in' form on the left has a title 'Log in', a 'Login' button, input fields for 'Username' and 'Password', a 'Remember me' checkbox, a 'Log in' button, a 'Sign up' link, and a 'Forgot your password?' link. The 'Sign up' form on the right has a title 'Sign up', input fields for 'Username', 'Email', 'Password (6 characters minimum)', and 'Password confirmation', a 'Sign up' button, and a 'Log in' link.

4. Now you should be redirected to the task menu screen.

The screenshot displays a web application interface with two main components. The top component is a 'Create a task' form, which includes a 'Title:' label followed by a text input field, a 'Description (Optional):' label followed by a text input field, a 'Create' button, a 'Search for a tag:' label followed by a text input field, a 'Search' button, and a button with a question mark icon. The bottom component is a task card titled 'Go to the supermarket' with a checkbox, a 'Delete' button, and a 'Manage Tags' button. The entire interface is set against a light orange background.

5. To create a task, type in a title (between 4 to 50 characters) and a description. (Optional)
6. To search for tags, just type it into the search bar, separating each tag with commas. This will give you all tasks that have the tags you request. For example, searching with “test1, test2” will return all tasks with tags test1 or test2.
7. To exclude tags, type “exclude,” followed by the tags you want to exclude. For example, “exclude, test1” will exclude all tasks with tag test1.
8. To show all tasks without filters, just search without inputting anything into the search bar.

#### Reflection:

Overall, I felt that this experience was worthwhile, even though it was very challenging. Having to learn a language from scratch (Ruby), as well as figuring out all the intricacies of Rails was quite tough, although I feel that after this assignment, I have a much greater understanding of what goes into a full-stack web application.

One of the main obstacles I faced during this assignment was decision paralysis. Even something as simple as a todo-list can be implemented in so many different ways with a wide variety of 3<sup>rd</sup> party libraries. I frequently spent a lot of time figuring out what the best way was to implement something in my app. On one hand, when it came time to install and implement the feature using a given library, it went pretty smoothly. On the other hand, maybe it would have been faster to just try out the libraries to see if they were compatible.

I was not able to accomplish all of my goals that I set out in the mid-assignment submission document. One thing that I hope to learn how to implement in the future is a JWT based login system, as that was the part which I had the most trouble with and had to ultimately give up on to work on other features.

All in all, this assignment has made me more confident of learning systems such as Rails/React on my own. At the beginning, I felt quite intimidated as it seemed like there was a lot to learn. After this experience, I realised that I still have a lot to learn, but I have also realised that the learning process is not as intimidating and tough as I

thought it would be (due to the wide variety of tutorials online), so I think that I will be more keen on continue to self-learn and develop my own apps in my spare time.