CVWO 2020 Mid Assignment Submission

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Basic Use Cases:
1. CRUD operations for each task: users are able to create a to-do task, view the details, updating it, and delete the task should the user completed it.
2. A task menu to view all the current task: displays all the tasks the user currently have to complete, sorted by creation time
3. Tagging system: each task is tagged by the level of urgency. Users can decide on which task to complete based on how urgent the task is, then proceed to other trivial tasks.
4. A search bar: filters tasks based on level of urgency. Users are able to view which tasks should be completed first, and later.

Execution Plan:
Completed: CRUD operations, Rails routing, React front end with bootstrap.
Incomplete: CSS Styling, sort by name, sort by urgency, search by name, deploy to Heroku

Problems Faced
1. React on Rails are released recently, hence limited resources are found online. Most of the YouTube tutorials barely routed the rails application to show the "hello world", which is not very useful.
2. Spent some time deciding which is the correct way to route the front end to the backend. A lot tutorials used the javascript_pack_tag function, while the CVWO installation uses the react_component function.
3. Spent some time figuring how to connect React and Rails, which is to delete everything in the .rb files to prevent the backend language from messing with the frontend, which is not very intuitive.
4. Spent a lot of time when creating new tasks after adding the tag attribute the model after completing the CRUD functions. After debugging I realised that the table in the rails database is missing the tag column, so I had to destroy the database and recreate the model.