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Basic Use Cases and Execution Plan:

There are two models in this task manager, task and search. The tasks represented in the task manager have a few properties, namely title, description, tags and deadline. The purpose of the tags is to identify the category of the task and facilitate searching using the search function. The search has two properties, namely keyword and deadline. The deadline restricts the search results to those whose deadline is before the specified deadline and the keyword is used such that search results must have the keywords in their tag section.

Going to the root of the server will lead to the task list, which shows the current list of all tasks listed in ascending order by deadline. The list contains only title, deadline and tags information. Each row of the list has a “edit”, “show” and “complete” link for the respective tasks. Clicking on “complete”, completes the task and destroys it permanently. Clicking on “show”, leads to another page which shows the full contents of the task. Users can return to the task list by clicking on the back button at the bottom of that page. Clicking on “edit” brings the user to a page similar to that of the “new” page which allows users to edit the task. There is an additional “new task” button above the task list which brings the user to a task form for creating new tasks.

Above the list is also a “search” button that brings the user to a search form with two fields, keywords and deadline. Either field are optional. Clicking on “save” on the bottom of that page brings the user to a task list which contains the search results. This search result list looks identical to the original task list but with lesser tasks according to the search results. There is a “back” button at the bottom to bring the user back to the original task list.

Current Challenges:

The current stage of the task manager is that I have implemented the basic CRUD and search functionalities using Rails and Embedded Ruby. However, I am currently stuck at understanding and implementing the flow of data and properties between the controller, view and react components. In particular, the flow of data from react components to the controller. As such I currently have difficulties converting the view from embedded ruby to react components. Additional things I hope to do before the final submission is to successfully convert my task form, search form and task list into react components.

Rails Start Up Screen:

