

Project Features: A To-do manager, where users can create a list of to-do tasks. Users can perform CRUD operations on their tasks. When creating tasks, users input their task name, due date and may choose from one of several tags (“important”, “school”, “work”, “personal”). To search for tasks efficiently, users can filter tasks based on tags, or search for the task name. Tasks will be displayed from most urgent to least (based on task’s deadline), and overdue tasks will be alerted to the user.

Project Plan: A Rails REST API will be created to serve as the backend. Active Record will keep track of tasks and tags in the to-do list and manage CRUD operations. The React frontend will access data through HTTP requests, and manage user behavior on the app. The app will then be hosted on Heroku. Tentatively, I may want to learn how to containerize the web app with Docker.

Possible Problems: As I learnt Ruby on Rails and React separately, I am uncertain how to make HTTP calls with React to retrieve and manage data from the API. I also have no experience with hosting so I may face some issues when using Heroku.