

Final Assignment Submission

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January 25, 2022

1 Changes since mid-assignment submission

I completed the backend API in Rails, and improved the UI experience in some places.

- Major Improvements
 - The table for displaying tasks now uses Material UI, implements pagination where the user can select the number of rows to be shown per page, as well as a toggle for making the table more dense (ie rows occupy less vertical height).
 - the tasks dashboard now provides users the ability to sort by task name, due date, or description.
 - Due dates can now be picked using a displayed calendar while adding/editing tasks
- Minor Improvements such as
 - The submit button on the create new account page is grayed out if password and confirm password fields don't match and a "passwords don't match" message is displayed.
 - A show password icon has been implemented for all password fields, and indicative placeholders have been added for all other fields.
 - Displaying a wrong password message on the sign in page
 - Showing a message in green when a task is added or edited successfully, and in red when a task is deleted successfully.

2 Improvements that can be made

1. I wanted to implement a notifications pane, but was unable to do so because of time constraints.
2. I was unable to satisfactorily implement a label system for tasks in the given time, and had to rework my project without it.

3 Final remarks

1. I started this project with no prior knowledge of React or Ruby on Rails, so this winter was well spent learning both frameworks. I now have much better command over both languages, and this should ameliorate development speed during later projects.
2. While I didn't use TypeScript in my project, by the end of it I gained a keen appreciation of the need for static typing, and the unique advantages it offers in the development process, like better intellisense and typesafety, both of which would have made managing a growing codebase better.

3. Finally, I found that my planning, which outlined only the broad strokes of my project, was inadequate. However, I have learnt from this experience, and will set deliverables for each week to have more fine-grained control over the development process in future projects. I had a lot of fun working on this project, and I'm glad I pushed through the difficulties I encountered to finish it. I hope you will give me a chance to develop for the CVWO team this summer, and thank you for your time and consideration.

4 User Guide

1. Main page

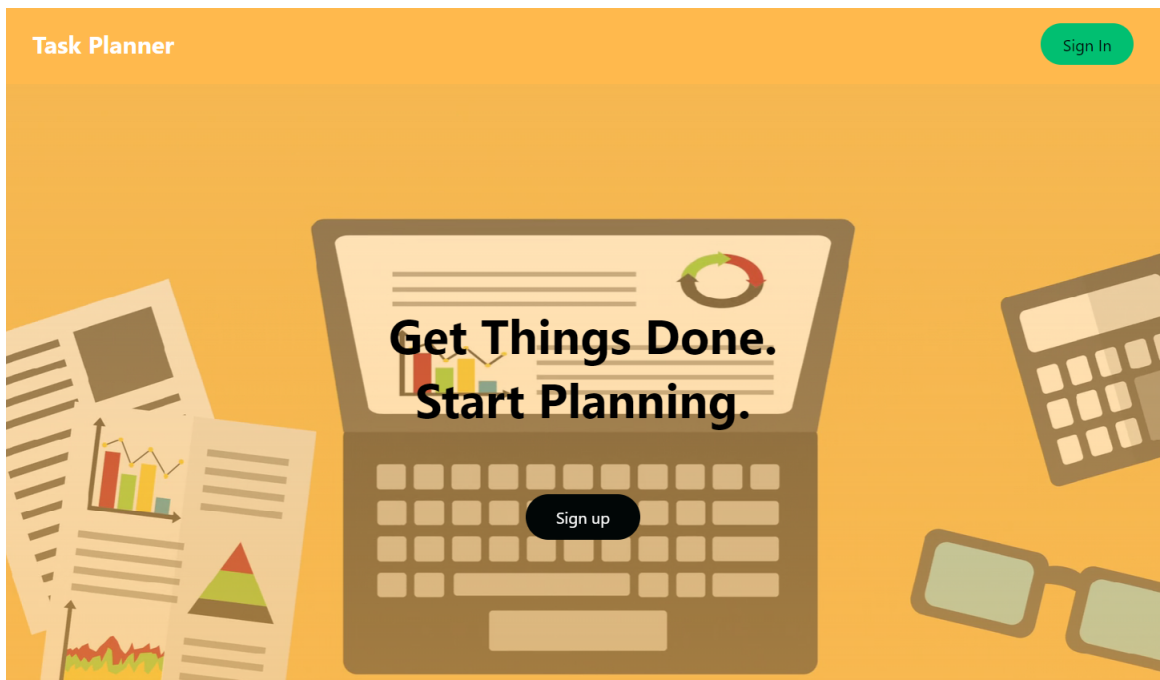


Figure 1: sign in to log in to an existing account and sign up to create a new account

2. Login and Sign up

This is a screenshot of the 'Sign in to your account' form. It is set against a black background with white text and input fields. At the top, the title 'Sign in to your account' is centered. Below it, there are two input fields: 'Email' with a placeholder 'Email Address' and 'Password' with a placeholder 'Password'. To the right of the password field is a small eye icon for toggling visibility. At the bottom of the form is a large green button with the text 'Continue' in white.

Figure 2: Sign in

This is a screenshot of the 'Sign Up for a new account' form. It has a black background with white text and input fields. The title 'Sign Up for a new account' is centered at the top. Below it are four input fields: 'Email' (placeholder 'Type your email'), 'Username' (placeholder 'Your Username'), 'Password' (placeholder 'Password'), and 'Confirm Password' (placeholder 'Confirm password'). Each of the last three fields has a small eye icon to its right. At the bottom is a large green button with the text 'Continue' in white.

Figure 3: Sign up

- Task View - Sort ascending or descending by clicking the column label you want to sort by. The arrow near the label indicates current sort direction.

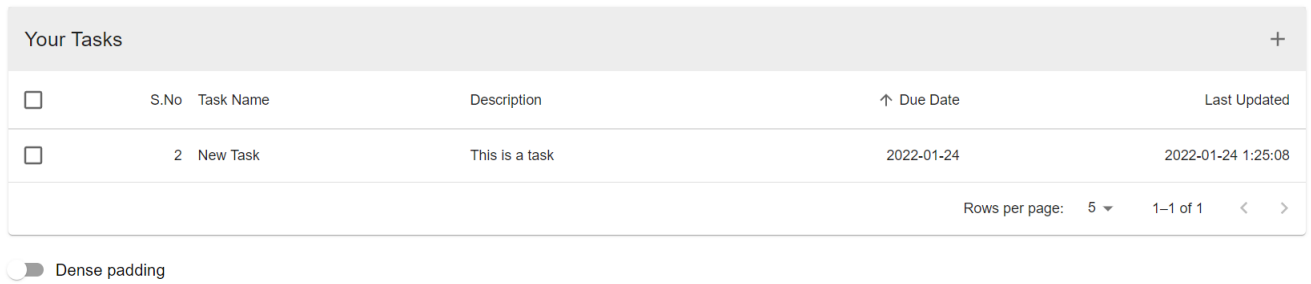


Figure 4: Task View

- To add a task, click the + sign. When you're happy with what you see, click on the save icon. Or cancel it! There's even a handy calendar to pick your dates more easily.

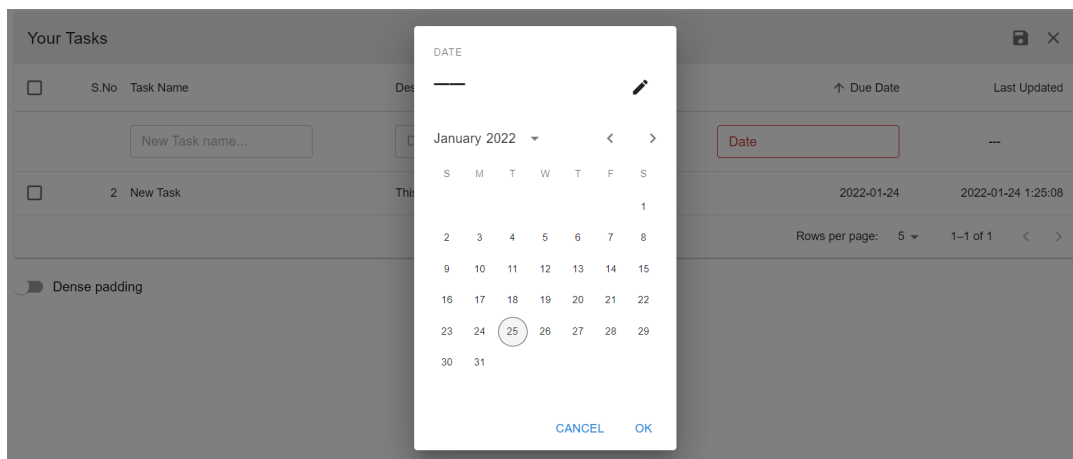


Figure 5: Date picker while adding tasks

- Edit and Delete tasks by selecting a task and then clicking the delete (trash) or edit (pencil) buttons. Note that selecting multiple tasks gives only the delete option; you can edit only one task at a time.

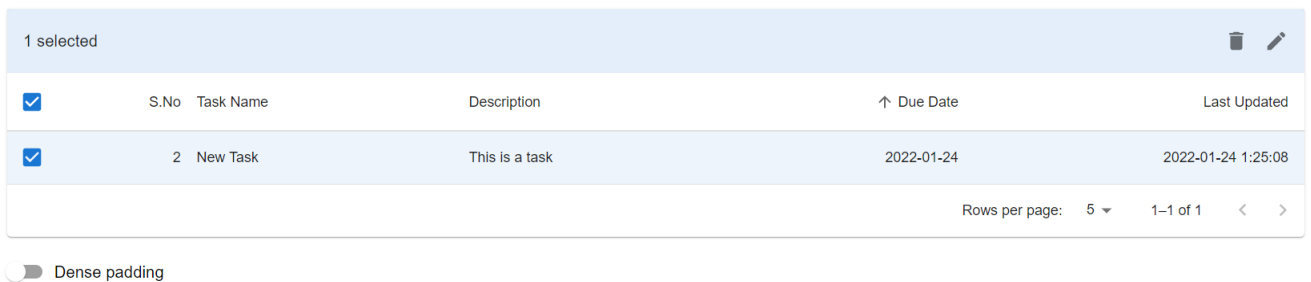


Figure 6: Edit and Delete

- The dense padding toggle makes rows occupy less vertical space, and the pagination options allow you to choose how many tasks to see in a page

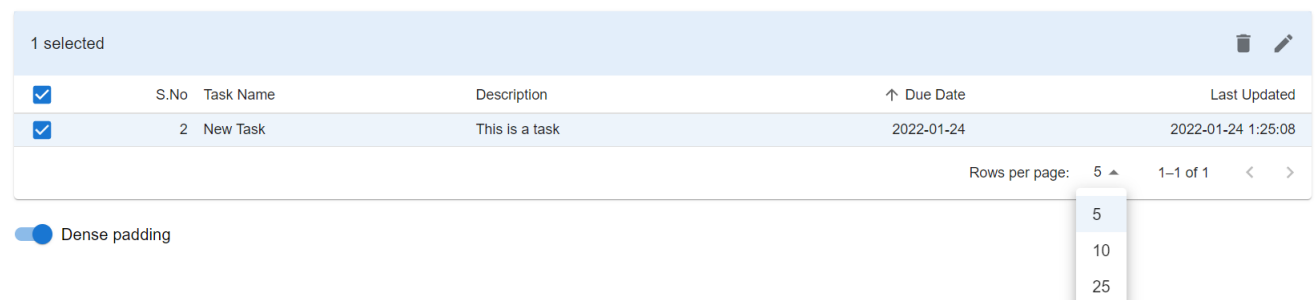


Figure 7: Dense Padding and Pagination