

ReactJS Assignment

Part-1: Implement a stopwatch

Here, you will implement a simple stopwatch. When the user clicks on the “start” button, the timer will start and the button text will be changed to “stop”. Clicking on “stop” will reset the timer.

Part-2: Upgrade the TodoApp

 API docs: <http://3.109.211.104:8001/docs>

 Project repo: <https://github.com/selen0phile/todo-app>

You have to enhance the todo-app that I showed you in class.

1. **Update todo:** Add a button to set the todo state to “completed”. You have to use the update todo api for this. Also, the changes must be reflected instantly.
2. **Countdown:** We have a deadline for each todo. You have to add a countdown in each todo that will show remaining time to complete the task. This will update automatically every second.
3. **Filtering:** Add priority based filtering. We have a search field now, but we also need a filtering system for priority.
4. **Sorting:** Add sorting methods for the todo, such as sort by creation time, sort by deadline, sort by priority etc.
5. **Profile:** Add a profile page for the user by creating a new route “/profile”. Allow the user to navigate to this page from the dashboard. You have to use the get profile api for this.
6. **Edit Profile:** Allow the user to update their profile while being in the “/profile” route. You can use a modal to show the edit UI, or you can make another route “/edit-profile”. You have to use the update profile api here. (*Bonus:* allow the user to upload profile picture, for this use any free image uploading service you want)
7. **Show Statistics:**
 - a. Show total amount of tasks
 - b. Show total completed tasks
 - c. Show efficiency (percentage of tasks completed). Add a pie-chart here to show the amount of finished tasks in green, and unfinished tasks in red.
8. **Enhance the UI** (*Bonus*):
 - a. Make a nice landing page
 - b. Add icons to login and create account button
 - c. Do the input validation using conditional rendering, show the user if they have put something invalid
 - d. Make the UI responsive
 - e. Improve the overall look n feel of the web-app

Submission Guidelines

You have to submit the following:

1. Github repo link
2. Hosted netlify link