Redux 1.3_CW Exercises

redux developer tool

ex01: setting up redux devtools

challenge:

1. Install redux devtools from here:

Following are the links to install the browser add-on or extension:

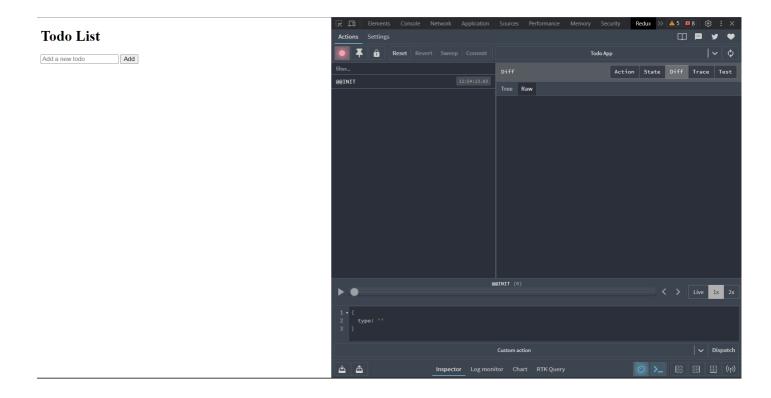
- Firefox
- Chrome
- 2. In your application, add a line of code to integrate Redux DevTools with your store. This is done when creating your Redux store using the createStore function.

```
window.__REDUX_DEVTOOLS_EXTENSION__ && window.__REDUX_DEVTOOLS_EXTENSION__()
```

COPY

- 3. Open Redux DevTools:
 - Open a new tab or window in their browser.
 - Look for the Redux DevTools icon (located in the browser's toolbar) and click on it to open the DevTools panel.

```
const store = createStore(
  todosReducer,
  window.__REDUX_DEVTOOLS_EXTENSION__ && window.__REDUX_DEVTOOLS_EXTENSION__(),
)
```

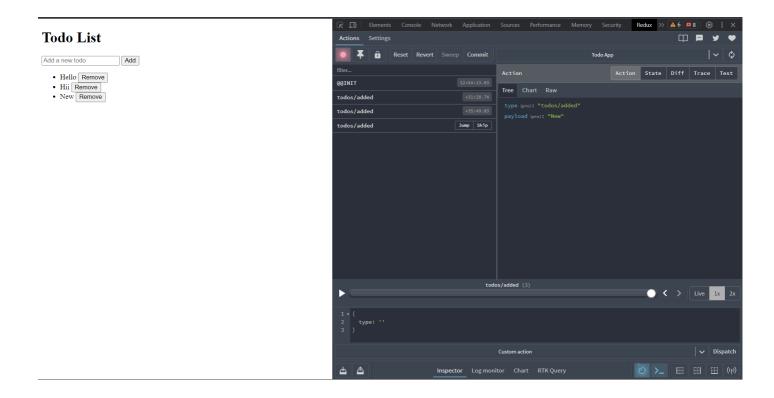


ex02**: left-side console tools**

challenge

Observing Real-Time Actions:

- Look at the left-hand column of the DevTools panel.
- Observe the real-time actions that are firing on the current page.
- The actions are displayed with action creator types.
 - Observe the timestamps next to each action.
 - These actions represent what's happening in your Redux application and are displayed with action creator types (e.g., "ADD_TODO," "REMOVE_TODO").
- Select an individual action from the left-hand column.
 - To inspect an individual action, click on it in the left-hand column. When you do this, you'll see two options displayed for that action: "Jump" and "Skip."
 - "Jump" takes your application to the state at the time the selected action fired. You can see how your application's state evolved and what caused it to change.
 - "Skip" crosses out the action and updates your app view. This can be helpful if you want to skip past a particular action without affecting the rest of your debugging session.

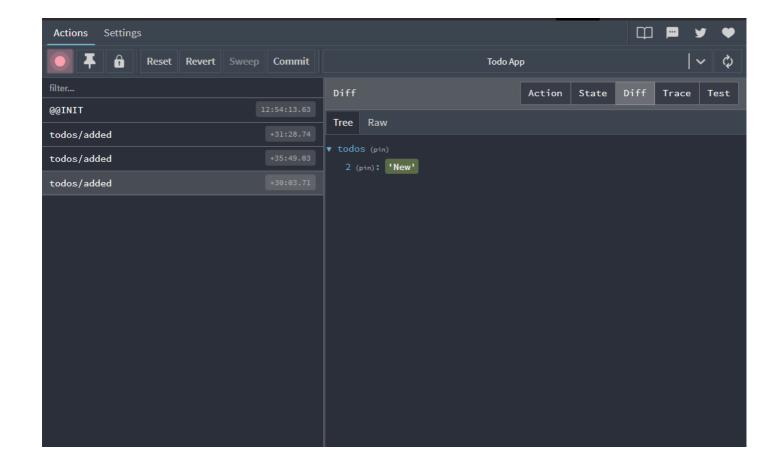


ex03**: right-side console tools - diff tab**

The four tabs at the top right are in my opinion the most helpful of the tools.

challenge

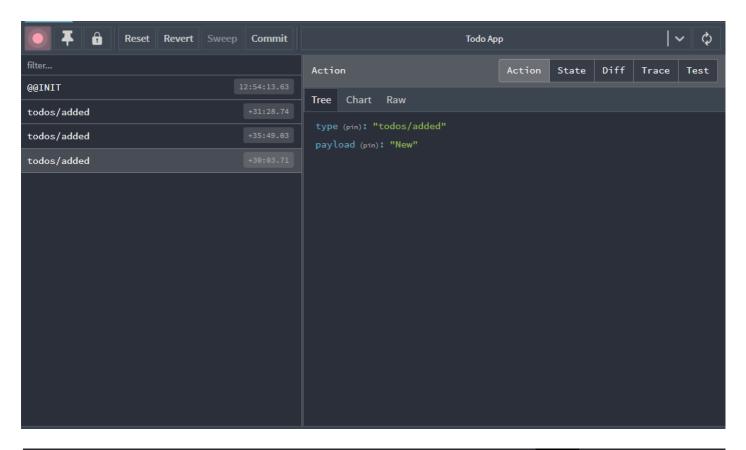
- Click on the "Diff" tab on the right side of the console.
- It displays only what the selected action changed in the state tree.
- This is especially useful when debugging and analyzing how actions affect the application's state.

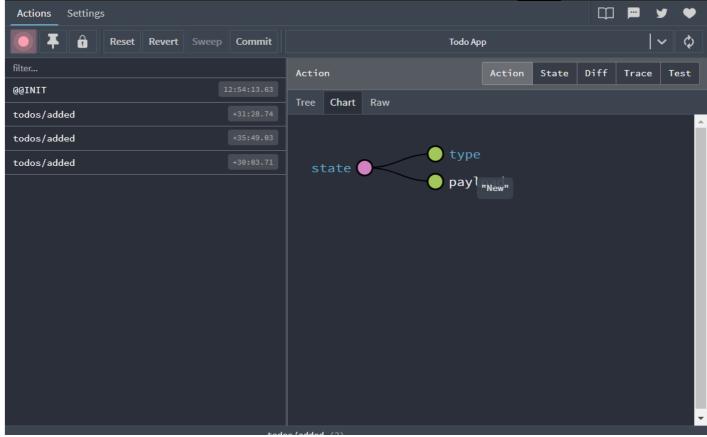


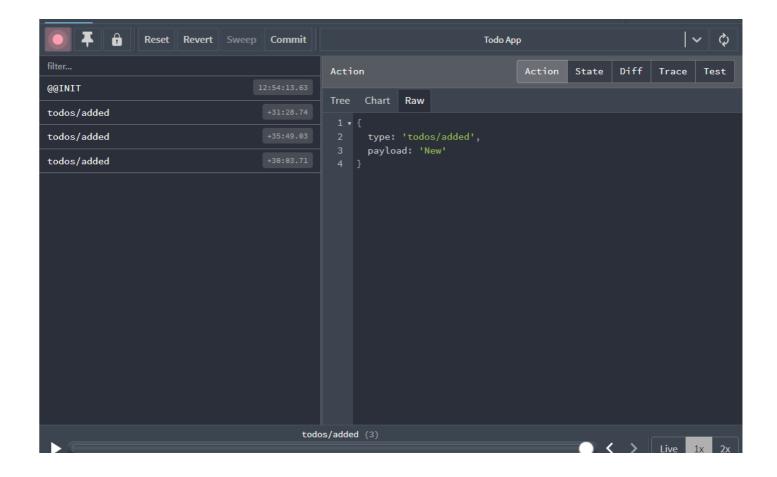
ex04: right-side console tools - action tab

challenge

- Click on the "Action" tab on the right side of the console.
- It shows the individual action type and any data it carries to the reducers.
- It contains three different sub-tabs: Tree, Chart and Raw.
 - Tree View (Default): By default, the "Action" tab opens in the "Tree" view. In this view, the
 data is summarized into single lines for a compact representation of each action.
 - Chart Tab: The "Chart" tab shows an up-to-date store tree. It displays all combined reducers and their corresponding data branches. This view is helpful for visualizing the state tree structure.
 - Raw Tab: The "Raw" tab presents the action creator in a code view. It allows you to see the
 action's code and structure as it was originally created in your application's codebase.



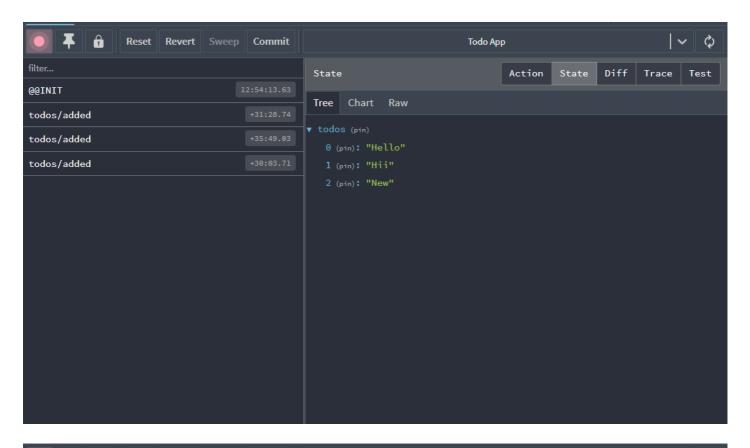


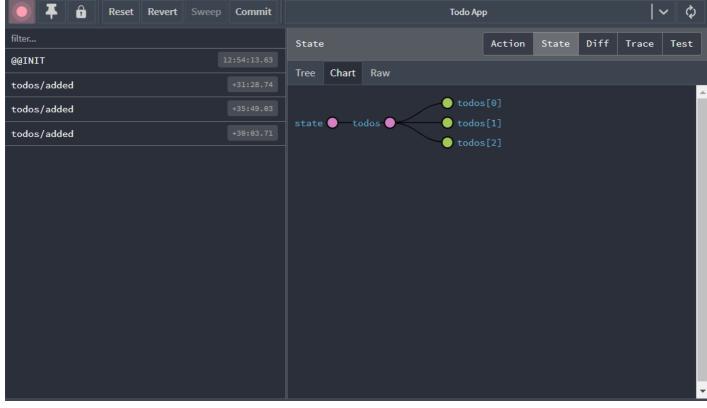


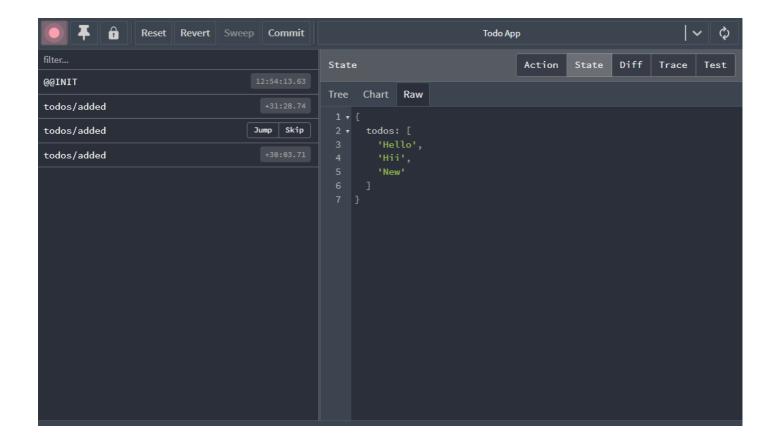
ex05**: right-side console tools - state tab**

challenge

- Click on the "State" tab on the right side of the console.
- The state tab shows the entire state tree at the time of the action selected in the left hand side of the console.





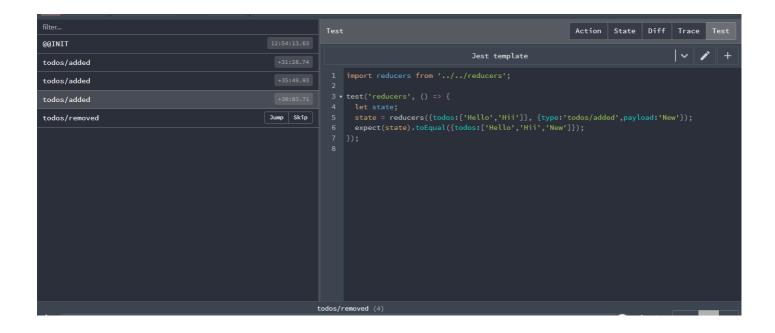


ex06**: right-side console tools - test tab**

challenge

Test tab:

- It creates a test format in some pre-provided testing frameworks.
- The "Test" tab takes your root state and provides a written test on what the end state should hold.



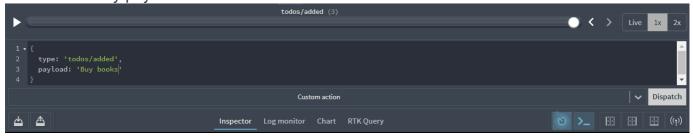
ex07**: dispatching actions from redux devtools**

```
const someObj = {
  value: 'abc',
  nextNode: { value: 'def', nextNode: { value: 'ghi', nextNode: null } },
}
COPY
```

challenge

How to dispatch actions directly from the Redux DevTools panel:

Enter necessary payload.



Click the "Dispatch" button to trigger the action.

```
todos/added (3)

Live 1x 2x

1 {
    type: 'todos/added',
    a payload: 'Buy books'
4 }

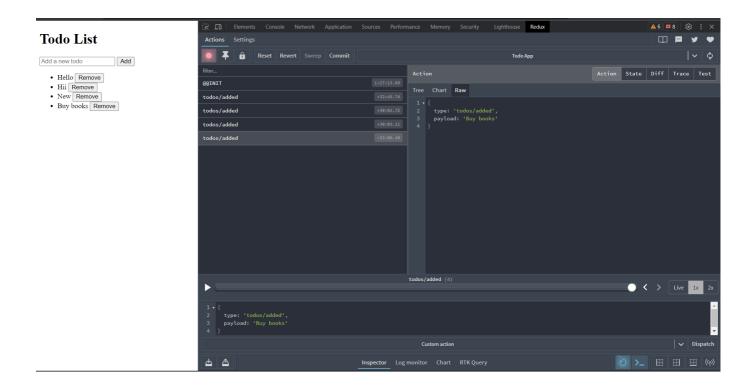
Custom action

V Dispatch

Live 1x 2x

(v)
```

Observe how the state changes in the UI in response to the dispatched actions.



Exercise 3: Using Time Traveler

challenge

- The Slider option will give you a smooth scroll through the actions.
- This will time travel through the actions that have fired and update the running app to show the current state and certain points in time.
- This comes packed with an auto-play, one step action arrows, and a speed interval play-through time.