

REACT JS

LECTURE 5

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AGENDA

- Recap last lecture points
- Redux Thunk
- Context
- Redux vs Context
- Apply context instead of redux

REDUX THUNK

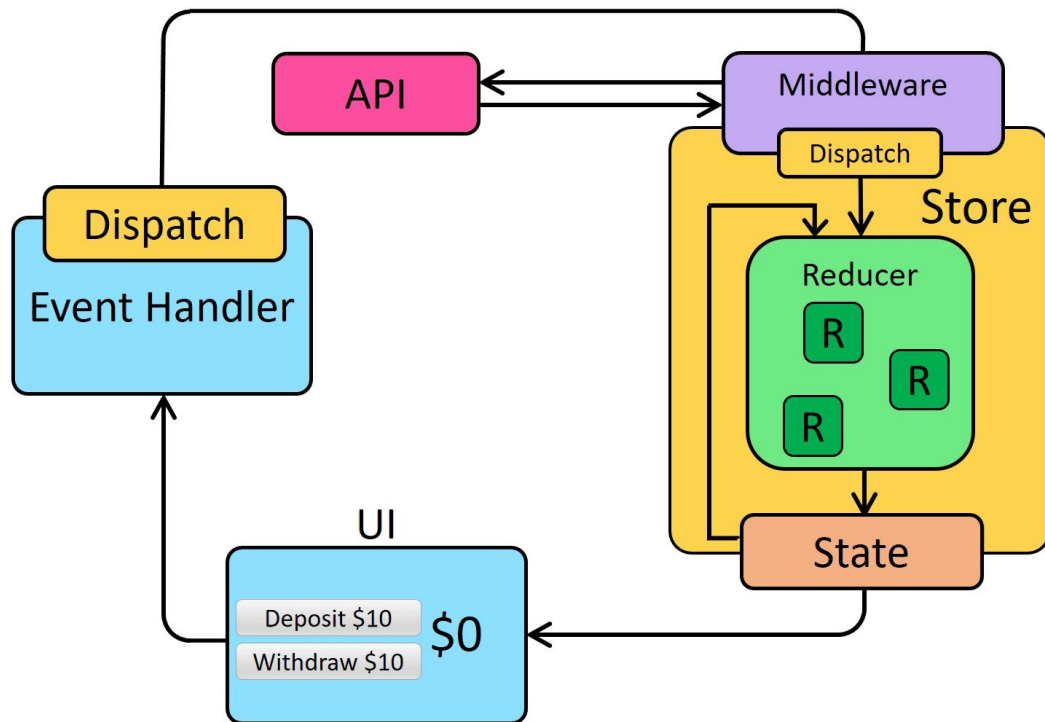
Check this link :

<https://redux.js.org/tutorials/essentials/part-5-async-logic>

```
npm install redux-thunk
```

a Redux store doesn't know anything about async logic. It only knows how to synchronously dispatch actions, update the state by calling the root reducer function, and notify the UI that something has changed. Any asynchronicity has to happen outside the store. Redux Thunk is middleware that allows you to return functions, rather than just actions, within Redux. This allows for delayed actions, including working with promises.

REDUX THINK



REDUX THUNK

```
import { createStore, applyMiddleware, compose } from "redux";  
import { composeWithDevTools } from "redux-devtools-extension";  
import reducers from "../combineReducers";  
import thunk from "redux-thunk";
```

```
const store = createStore(reducer,  
  composeWithDevTools(applyMiddleware(thunk)));
```

```
export default store;
```

REDUX THUNK

```
export const getMovies = () => (dispatch) => {  
  //nameless functions  
  // Return promise with success and failure  
  return axiosInstance.get("/movie/popular").then(  
    (res) => dispatch({ type: 'GET_MOVIES', payload : res.data.results }),  
    (err) => console.log("err")  
  );  
};
```

REDUX THUNK

```
export const actionName = () => async (dispatch) => {  
  try {  
    const response = await axios.get(`api`);  
    dispatch({  
      type: type,  
      Payload: response.data,  
    });  
  } catch (err) {  
    console.log(err);  
  }  
};
```

CONTEXT

CONTEXT

Context provides a way to pass data through the component tree without having to pass props down manually at every level.

Context is designed to share data that can be considered “global” for a tree of React components, such as the current authenticated user, theme, or preferred language.

CONTEXT

The build-in React tool has not influenced the final bundle size, and it is integrated by design with every npm package

- Easier to understand and handle for beginners comparing to Redux data flow
- Excellent for more static data - not so frequency updated like in Redux
- Only little setup is required - create context and sometimes wrapper component
- Well documented part of React
- A lot of local contexts to handle separate logic tasks can be in the application.

CONTEXT

Create context file config :

```
import React from "react";  
  
const contextFeature = React.createContext();  
  
export const contextProvider = contextFeature.Provider;  
  
export default contextFeature ;
```

RESOURCES

React links :

- <https://www.youtube.com/watch?v=Dorf8i6lCuk>
- <https://www.youtube.com/watch?v=w7ejDZ8SWv8&t=2559s>
- <https://www.youtube.com/watch?v=0riHps91AzE>
- Chat with firebase <https://www.youtube.com/watch?v=zQyrwxMPm88>
- Medhat Dawoud Channel :
<https://www.youtube.com/channel/UCuwTHYdMavwEPsZ60AkXfig>
- Mosh channel :
<https://www.youtube.com/channel/UCWv7vMbMWH4-V0ZXdmDpPBA>
- Formik in deep :
<https://www.youtube.com/watch?v=a94F0vaBomQ&list=PLC3y8-rFHvwiPmFbtzEWjESkqBVDbdgGu>
- React router V6 : <https://www.youtube.com/watch?v=zEQiNFAwDGo&t=84s>

LAB >>

1. Change the movies API to use Redux thunk to get list of movies.
2. Change the app language Using the Context to save the latest Value.

THANK YOU