redux applyMiddleWares

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Create Store Flow

const newCreateStore = applyMiddleWares(middlewareA)(createStore);
const store = newCreateStore(reducer, {});

middlewareA

createStore

applyMiddlewares

```
const applyMiddleware = (...middlewares) => {
    return (next) => (reducer, initialState) => {
        ...
    };
};
```

const newCreateStore = applyMiddleWares(middlewareA)(createStore);
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middlewareA

createStore

applyMiddlewares

```
const applyMiddleware = (...middlewares) => {
    return (next) => (reducer, initialState) => {
        ...
        chain = middlewares.map(middleware => middleware(middlewareAPI));
        };
};
```

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createStore applyMiddlewares const applyMiddleware = (...middlewares) => { return (next) => (reducer, initialState) => { let store = next(reducer, initialState),

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applyMiddlewares

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```
let store = next(reducer, initialState),
    dispatch = store.dispatch,
    chain = [];
let middlewareAPI = {
      getState: store.getState,
      dispatch: (action) => dispatch(action)
};
chain = middlewares.map(middleware => middleware(middlewareAPI));
dispatch = compose(...chain)(store.dispatch)
return {
      ...store,
      dispatch
};
```

```
view
```

```
store.dispatch({
  type: 'TODO'
});
```

middleware chain

store

```
const dispatch = (action) => {
  state = reducer(state, action);
  listeners.forEach(listener => listener());
};
```

```
const reducer = (state = 0, action) => {
  switch (action.type) {
    case 'TODO':
    return state + 1;
  }
};
```

store.dispatch({ type: 'TODO' });

middleware chain

middleware chain

store

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store
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view

```
store.subscribe(() => {
  const state = store.getState();
});
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store

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store

const getState = () => state;

view

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store

const getState = () => state;