



# REDUX

## Setup



- npm i express --save
- Create public folder and in that create index.html
- Execute index.js

## index.js



```
const express = require('express');
const app = express();

app.use(express.static("public"));

app.listen(8081, function () {
  console.log('ExpressJS is running on port 8081');
});
```

## index.html



```
<script
src="https://unpkg.com/redux@4.0.5/dist/redux.min.js">
</script>

<script>

const Redux = window.Redux;

const DEPOSIT = 'DEPOSIT';
const WITHDRAW = 'WITHDRAW';
```

```
function makeDeposit(v)
{
  return { type:DEPOSIT, value:v };
}

function makeWithdraw(v)
{
  return { type:WITHDRAW, value:v };
}

const initState = { balance:0, lt:0 };

function PiggybankApp(state = initState,action)
{
  let newState = {};
  switch(action.type)
  {
    case DEPOSIT: newState.balance = state.balance +
action.value;
                    newState.lt = action.value;
                    break;
    case WITHDRAW: newState.balance = state.balance -
action.value;
                    newState.lt = -action.value;
                    break;
    default:
      newState = {...state};
  }
  return newState;
}

const store = Redux.createStore(PiggybankApp);

// Direct Dispatch and GetState
console.log(store.getState());
store.dispatch(makeDeposit(100));
console.log(store.getState());
store.dispatch(makeWithdraw(50));
console.log(store.getState());

// Dispatch, Subscribe and Unsubscribe
const unsubscribe = store.subscribe(() =>
console.log(store.getState()));
store.dispatch(makeDeposit(75));
```



```
store.dispatch(makeWithdraw(15));  
store.dispatch(makeDeposit(20));  
unsubscribe();  
  
store.dispatch(makeDeposit(10));  
</script>
```



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