Open Source Page

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Growth Session #8 - October 19-20 2017

Intro

- Build a Web page for Nimbl3 Open Source projects.

- Use React, Redux

- Learn Redux saga for async action

3 Principles

- Single Source of truth

- State is read-only

- Changes are made with pure functions

Redux

```
// Action
// fetching
{
  type: 'FETCHING'
}

// received
{
  type: 'SUCCESS',
  payload: response.data
}
```

```
// Dispatch
dispatch({ type: 'FETCHING' })
```

```
// Reducers
// currentState, action as arguments
const filterProjects = (state = initialState, action) => {
  let { type, payload } = action

  switch (type) {
    case 'FETCHING':
      return {
        ...state,
        isFetching: true
      }
    case 'SUCCESS':
      return {
        ...state,
        isFetching: false,
        data: payload
      }
    default:
      return state
  }
}
```

```
// State
{
  users: {
    isFetching: false,
    error: null,
    data: [{}, {}]
  },
  courses: {
    isFetching: false,
    error: null,
    data: [{}, {}]
  }
}
```

redux-saga

```javascript
const sagaMiddleware = createSagaMiddleware()

let store = createStore(
  reducers,
  applyMiddleware(logger),
  applyMiddleware(sagaMiddleware)
)

sagaMiddleware.run(saga)
```

```javascript
function* fetchProjects({ name }) {
  try {
    const response = yield call(Api.fetchProjects, name)
    yield put({ type: PROJECTS.SUCCESS, payload: response.data })
  } catch (e) {
    yield put({ type: PROJECTS.ERROR, error: e.message })
  }
}


function* saga() {
  yield takeLatest(PROJECTS.FETCHING, fetchProjects)
}
```

redux-thunk

```javascript
import { createStore, applyMiddleware } from 'redux'
import thunk from 'redux-thunk'
import rootReducer from './reducers/index'

// Note: this API requires redux@>=3.1.0
const store = createStore(
  rootReducer,
  applyMiddleware(thunk)
)

// Action
function fetchAsync() {
  return (dispatch) => {
    dispatch({ type: 'FETCHING' })

    fetch('//path/to/api')
      .then(response => {
        dispatch({
          type: 'SUCCESS',
          payload:response.data
        })
      })
  }
}
```
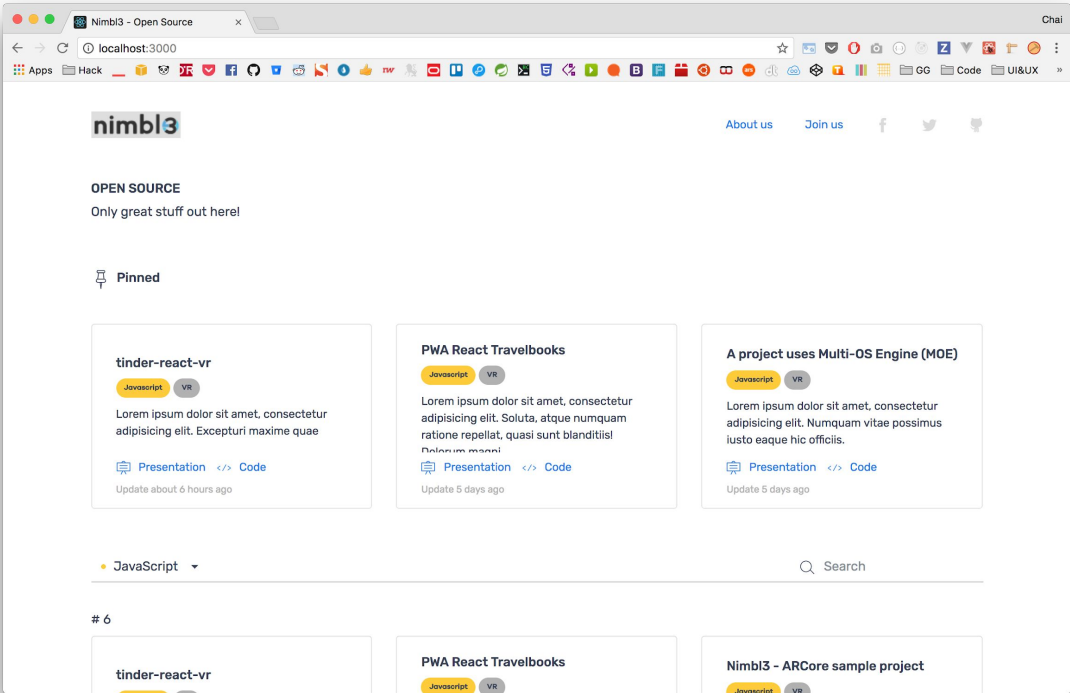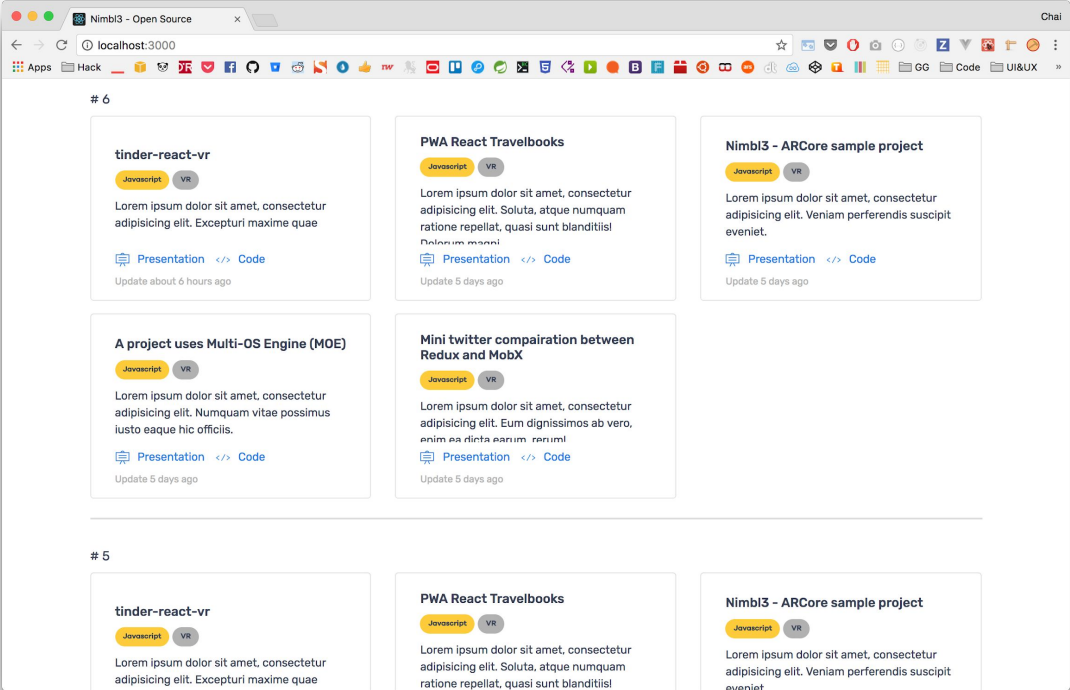
Achievements

- Completed stylesheets following the design

- Control Redux State flow with API

- Mock API Server with json-server

Progress

Progress

Thanks!

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