

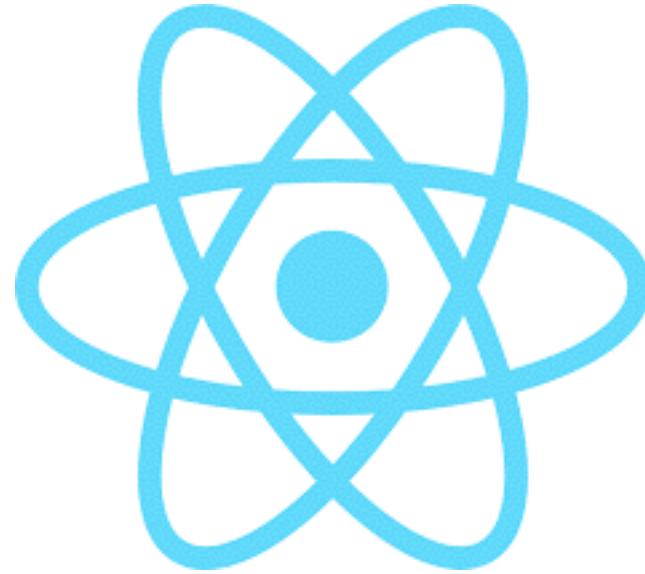
# React World

for web application

**Art** </ส่วิจักขณ์ คงถาวร>

Dev: [happysoft2010.com](http://happysoft2010.com), [goodlythink.com](http://goodlythink.com)

fb: support.goodlythink



it's Javascript Library  
For Building User Interfaces

Declarative Programming

Component Base

Write Once Use  
Everywhere

# tools for React



NPM

ExpressJS

Webpack

Babel

# 3 way Create Rect



create-react-app

```
npm install -g create-react-app  
create-react-app myapp
```

webpack + babel

```
npm init -y  
npm i web pack  
npm i webpac-dev-server  
npm react reach-dom  
npm .....
```

create webpack config

Next.js

```
npm init -y  
npm i react react-dom next
```

	create-react-app	webpack+babel	Next.js
Easy Setup	10	5	10
CSR (Client Side Rendering)	10	10	10
SSR (Server Side Rendering)	0	10	10
Code Splitting	0	10	8
Performance	2	10	8
Tune UP	2	10	5
Learning Curve ต่ำ	10	5	5
	34	60	56

**Component**

**Prop & State**

**Router**

**Redux (store)**

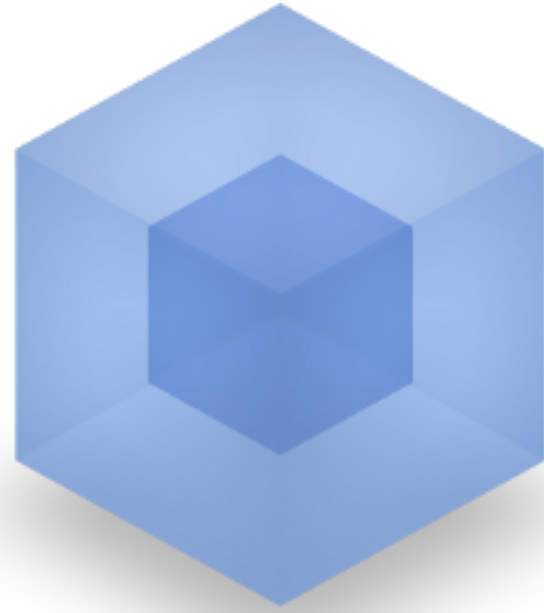
# Redux (store)

**ReduxPromise**

**ReduxThunk**

ReduxSaga





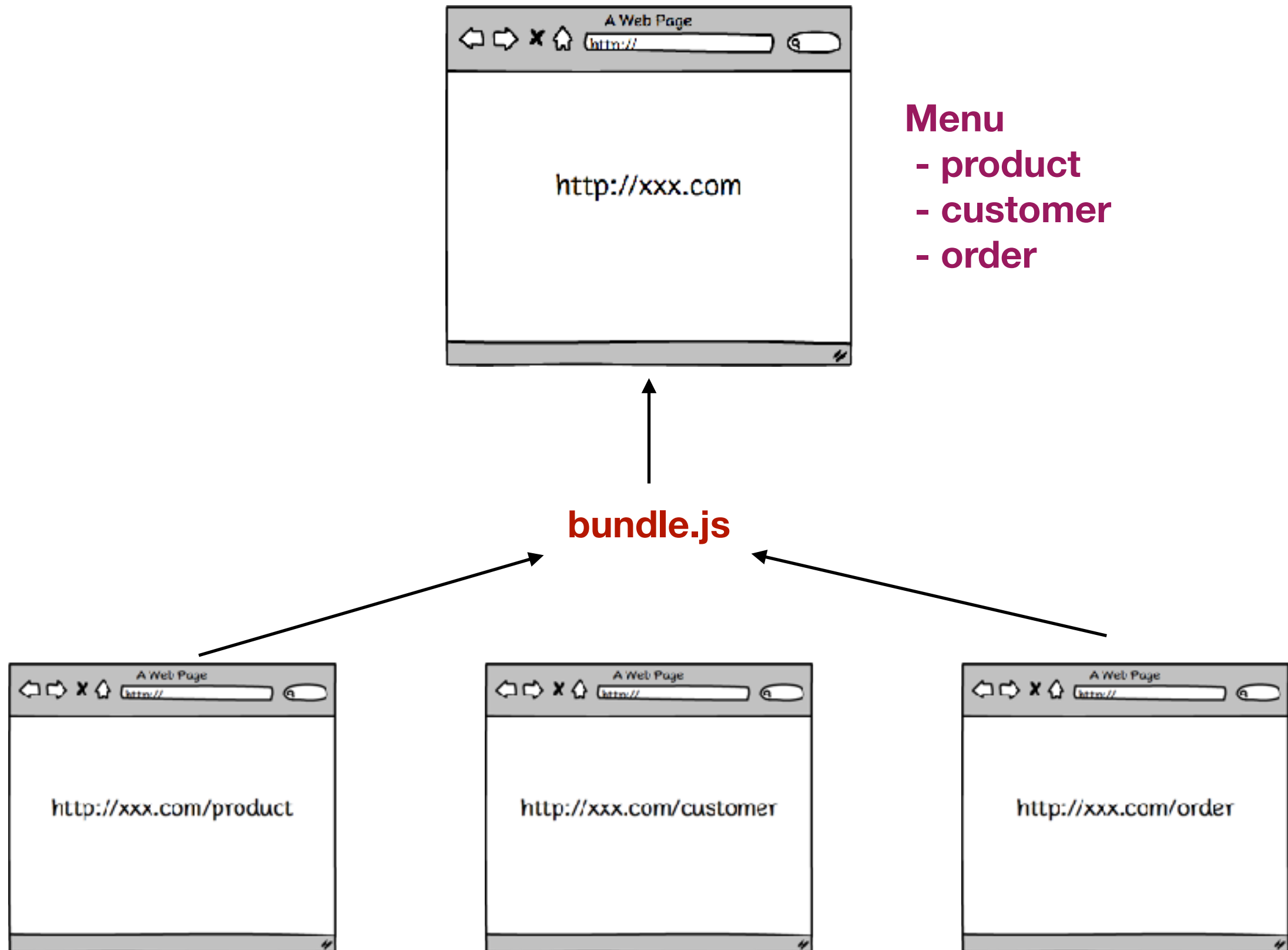
**webpack**  
MODULE BUNDLER

***BABEL***

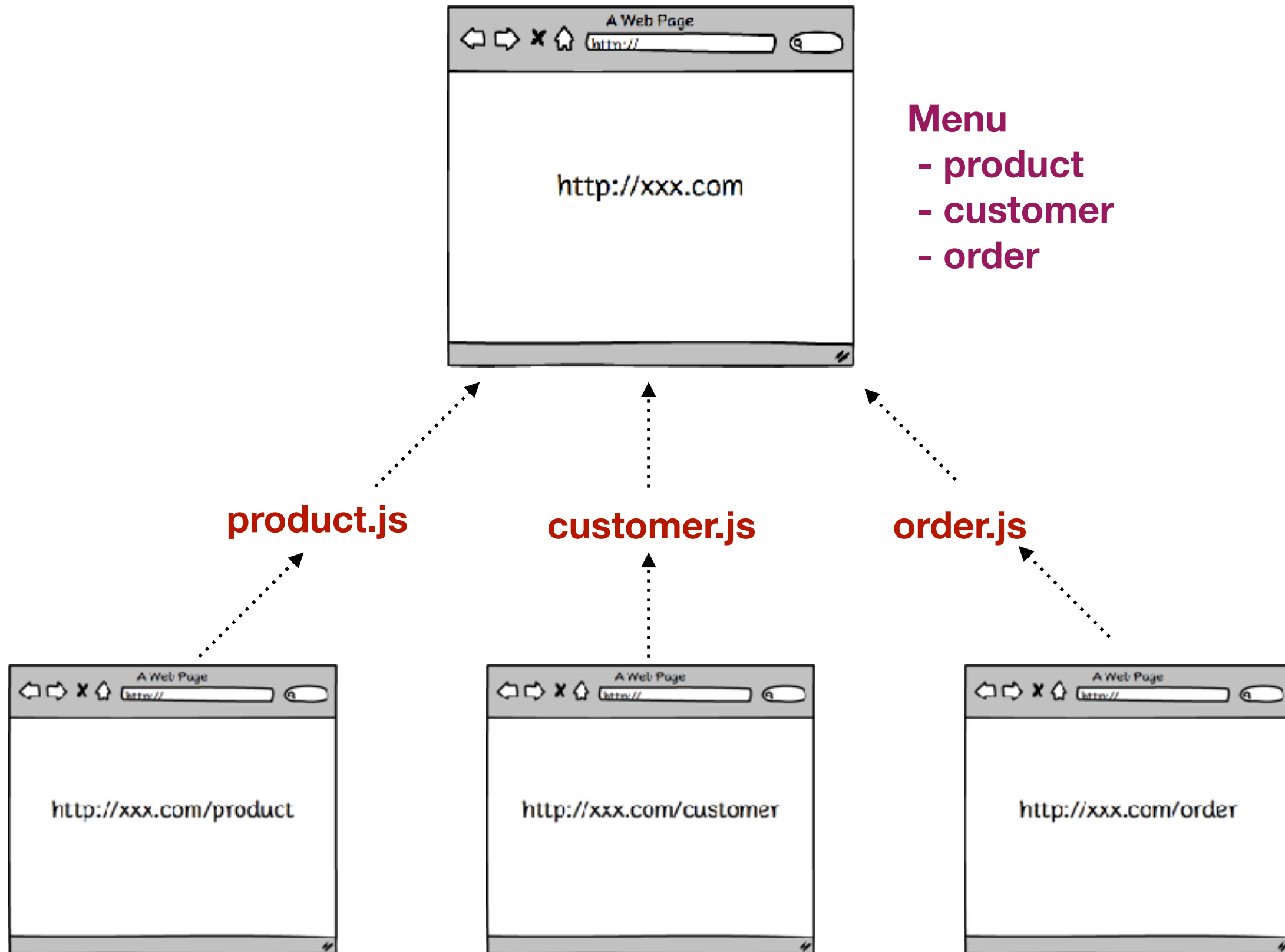
# Code Splitting



# none Code Splitting



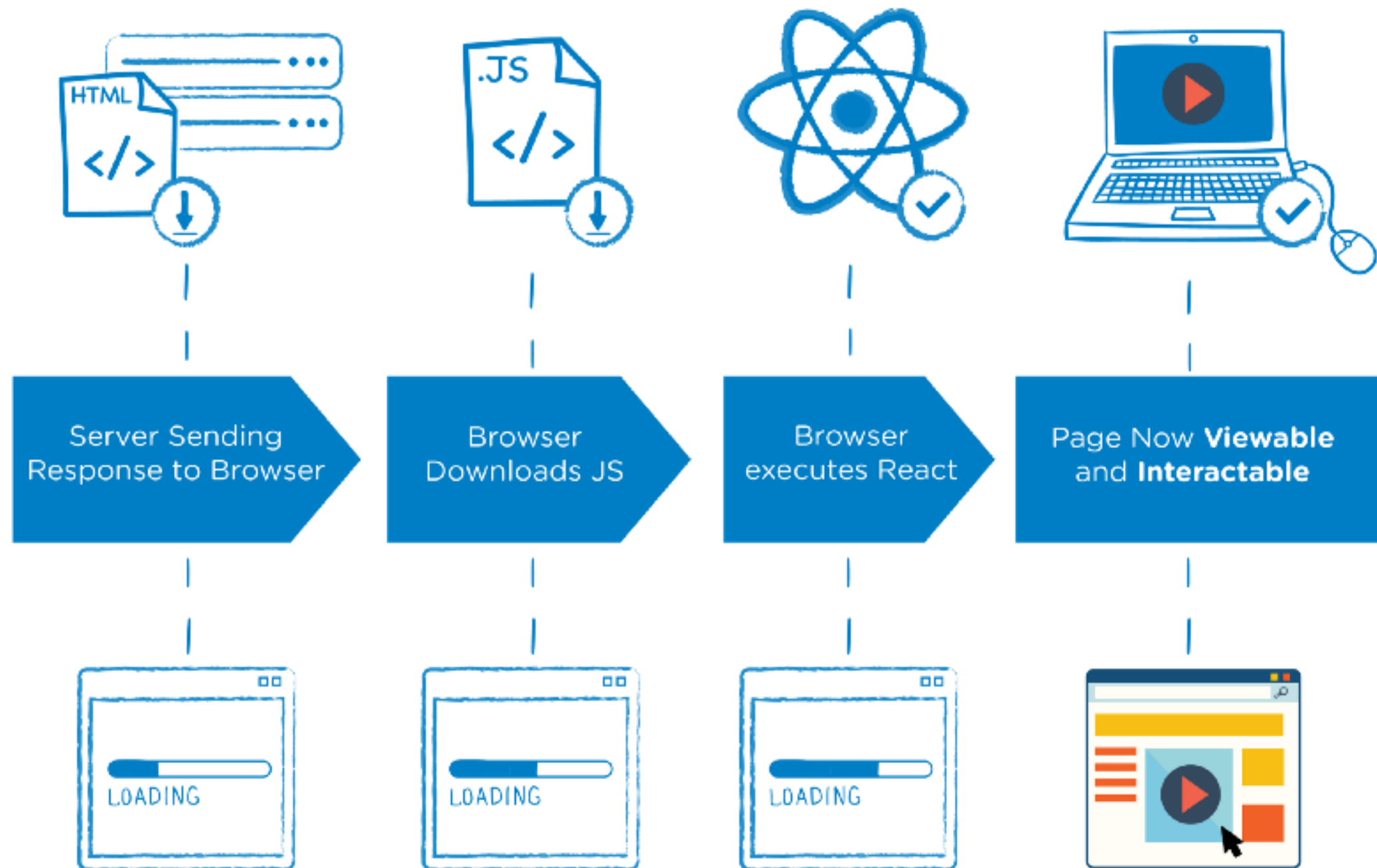
# Code Splitting





<https://medium.com/walmartlabs/the-benefits-of-server-side-rendering-over-client-side-rendering-5d07ff2cefe8>

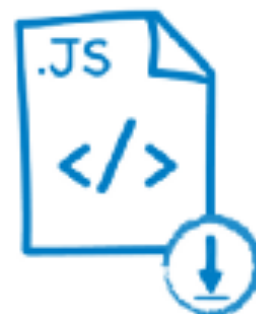
# CSR



# SSR



Server Sending Ready  
to be rendered HTML  
Response to Browser



Browser Renders the  
page, **Now Viewable**, and  
Browser Downloads JS



Browser  
executes React



Page Now  
**Interactive**



# SSR

# CSR

## Home Page

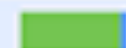
80.5 KB

487 ms



63.5 KB

620 ms



## Category Page

90.2 KB

593 ms



60.6 KB

250 ms



## Search Page

83.2 KB

837 ms



57.6 KB

470 ms







GraphQL

+

**A**POLLO

REST Client

GraphQL Client

GET /posts/

GET /comment/:post\_id/

REST Server

GraphQL Server

```
apt.get("posts", (req, res)=>{
  ....process db
  res.json()
})
[
  {id: 1, title: xxxx, detail: aaa},
  {id: 2, title: xxxx, detail: bbb}
]

apt.get("comment", (req, res)=>{
  ....process db
  res.json()
})
[
  {id: 1, post_id: 1, text: ccc},
  {id: 2, post_id: 1, text: ddd}
]
```

```
/graphql?query={
  posts{
    id,
    title,
    detail,
    comment{
      text
    }
  }
}
```

```
apt.get("/graphql",...)
{
  data:{
    posts: [
      {
        "id": 1,
        "title": "xxxx",
        "detail": "aaa",
        comment: [
          {
            "text": "ccc"
          }
        ]
      },
      {
        "id": 2,
        "title": "xxxx",
        "detail": "bbb",
        comment:[
          {
            "text": "ddd"
          }
        ]
      },
    ]
  }
}
```