Why Do We Use Build Tools?

iTerm2 Shell Edit View Profiles Toolbelt Window Help

1. stephengrider@stephengriders-MacBook-Pro: ~/workspace/WebpackWorkspace/prod (zsh)
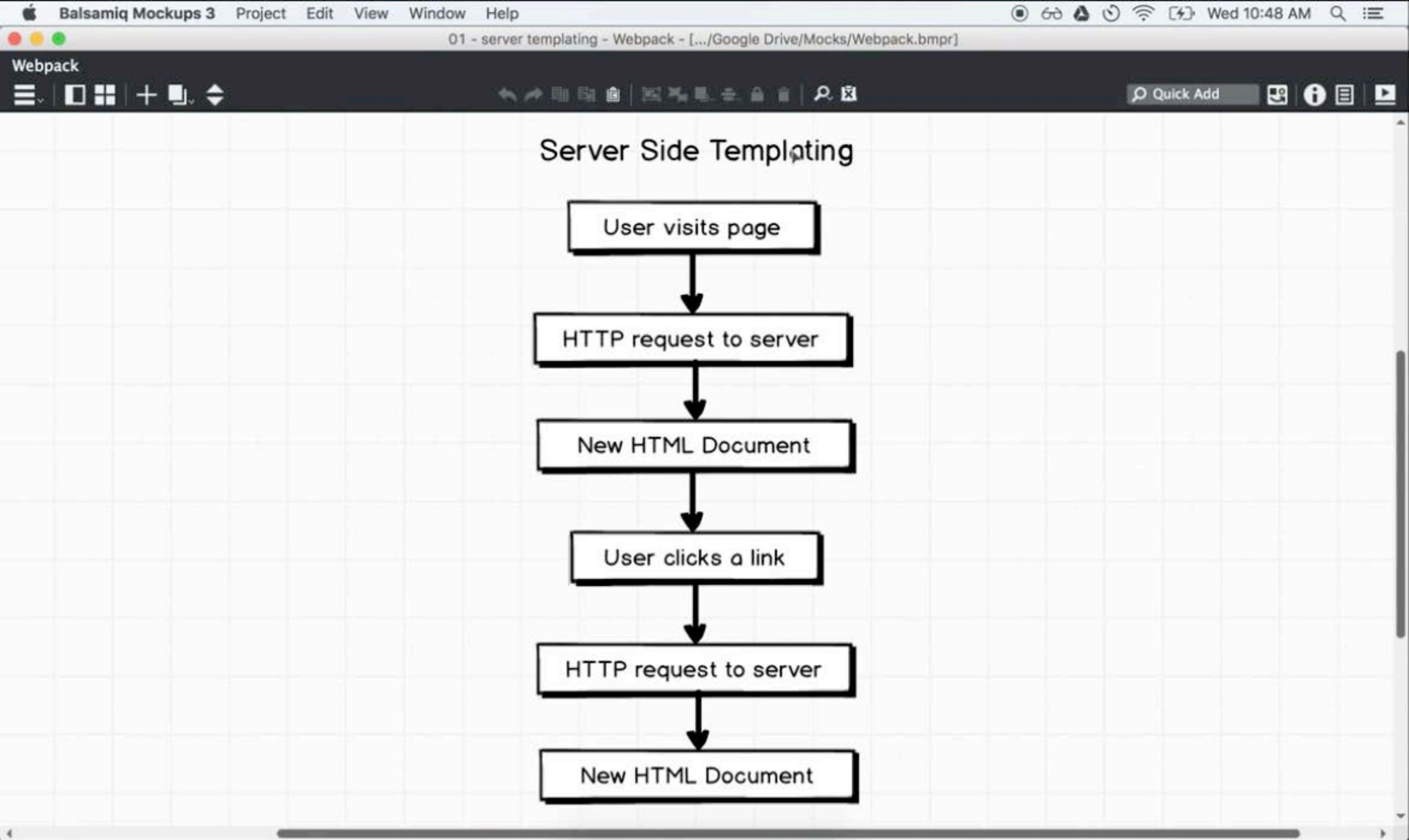
→ prod
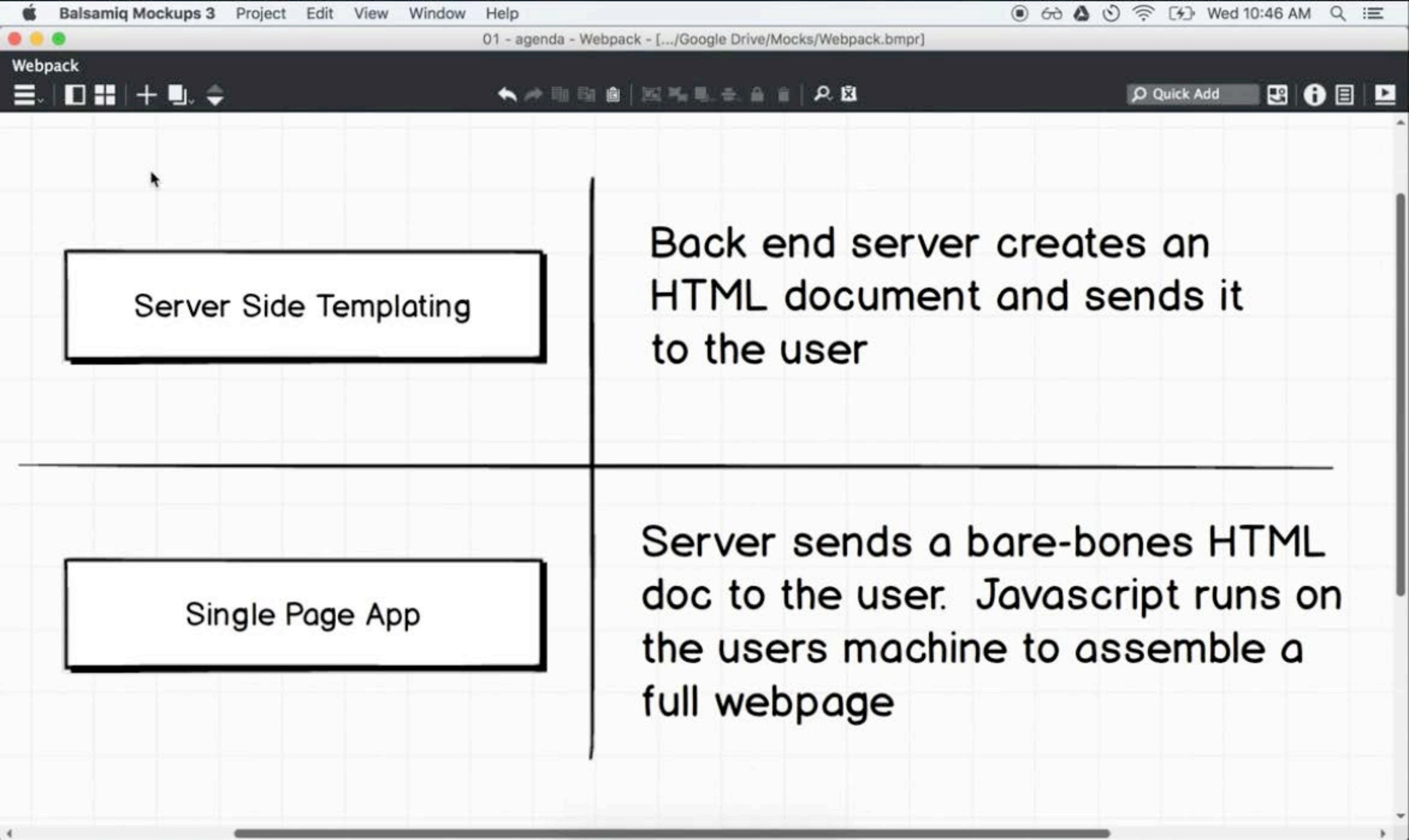
Server Side Templating

Back end server creates an HTML document and sends it to the user

Single Page App

Server sends a bare-bones HTML doc to the user. Javascript runs on the users machine to assemble a full webpage

Server Side Templating

```
┌─────────────────────────────┐
│       User visits page       │
└─────────────────────────────┘
                │
                ▼
┌─────────────────────────────┐
│    HTTP request to server    │
└─────────────────────────────┘
                │
                ▼
┌─────────────────────────────┐
│     New HTML Document        │
└─────────────────────────────┘
                │
                ▼
┌─────────────────────────────┐
│      User clicks a link      │
└─────────────────────────────┘
                │
                ▼
┌─────────────────────────────┐
│    HTTP request to server    │
└─────────────────────────────┘
                │
                ▼
┌─────────────────────────────┐
│     New HTML Document        │
└─────────────────────────────┘
```

01 - spa - Webpack - [.../Google Drive/Mocks/Webpack.bmpr]

Webpack

Quick Add

Single Page App

```
┌─────────────────────────┐
│     User visits page     │
└─────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│  HTTP request to server  │
└─────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│    New HTML Document     │
└─────────────────────────┘
              │
              ▼
┌──────────────────────────────────┐
│  React/Angular boots up, shows page │
└──────────────────────────────────┘
              │
              ▼
┌─────────────────────────┐
│     User clicks link     │
└─────────────────────────┘
              │
              ▼
┌────────────────────────────────────┐
│  React/Angular shows new content    │
└────────────────────────────────────┘
```

01 - js size - Webpack - [.../Google Drive/Mocks/Webpack.bmpr]

Webpack

Quick Add

Amount of
JS Code

Server
Side
Rendering

Single
Page App