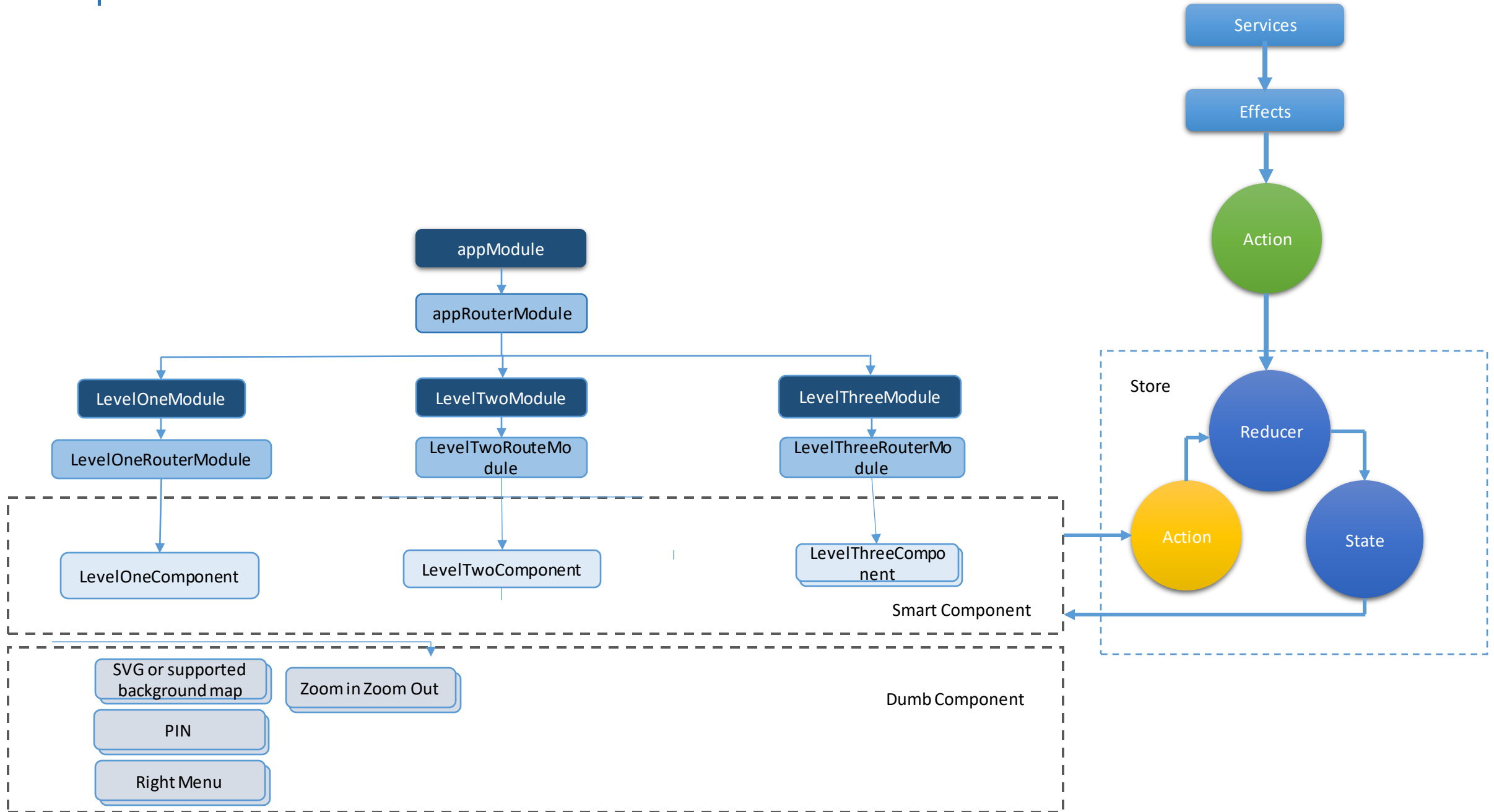


Component Architecture for HUB Neom

Local and global state management using React Hooks



Tech Stack

Application - **React (Hooks) and Typescript**

Global state management - **Redux, Redux Toolkit**

Routing - **React Router**

Styles - **Styled Components**

Testing - **Jest, React Testing Library**

Webgi - Solution speeds up the process of exporting assets in different customizations saving time and money.

React-three-fiber is a React renderer for three.js. - **React-three-fiber**

<https://threejs.org/>

<https://sketchfab.com/>

Playwright enables reliable end-to-end testing for modern web apps. - **playwright**

percy.io - Visual Regression Testing **Your all-in-one visual review platform.**

Performance strategy

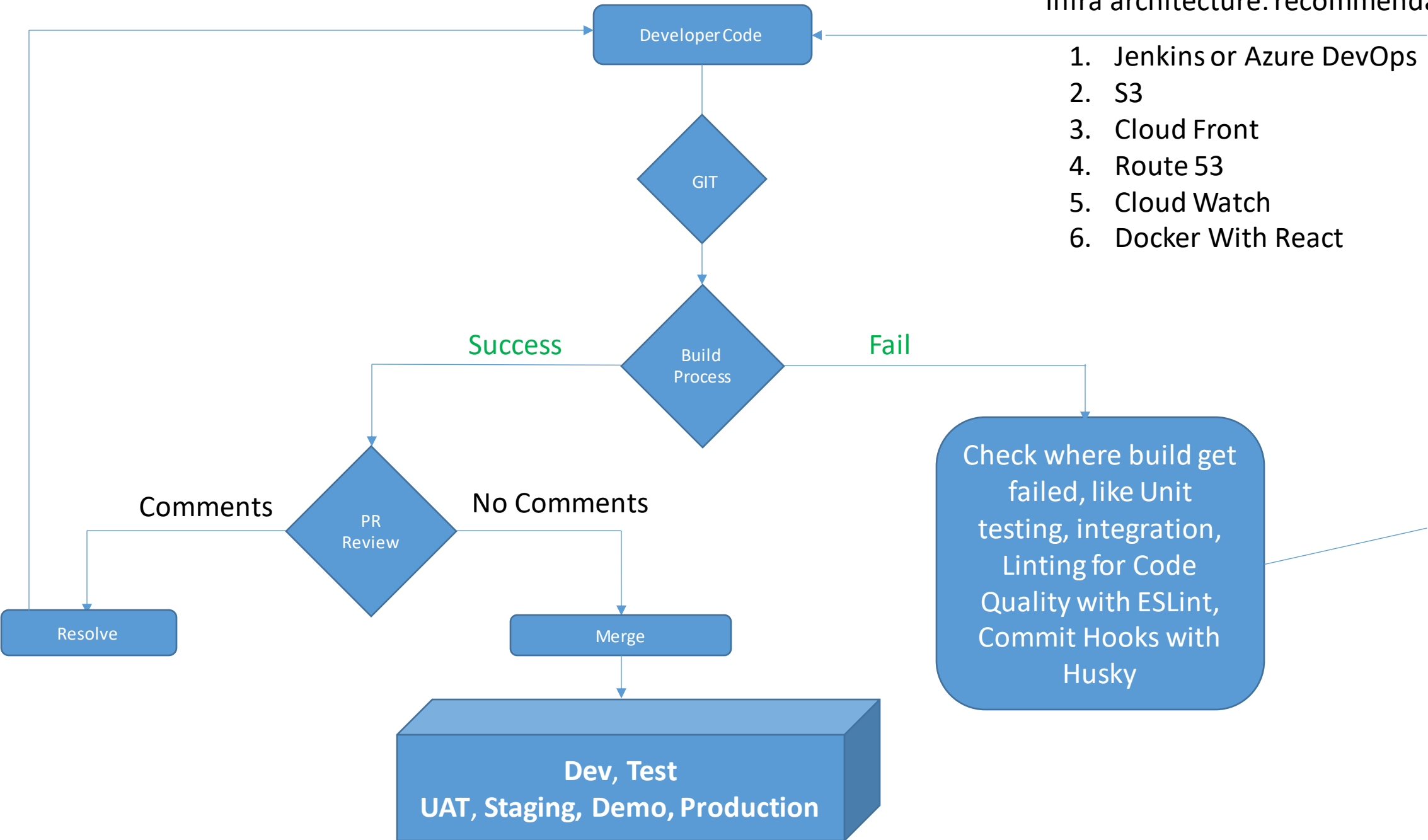
1. Lazy loading and bundle splitting.
2. Using PWA
3. General implications of HTTP/2 and server-push
4. Prefetch and Preload resources
5. Image optimizations
6. Catching data which don't have security constraints
7. Asynchronous way of loading CSS and JS wherever required
8. Using CDN wherever required.
9. Bundle CSS and JS files (minification / compress)
10. Load images progressively.
11. Use service workers for caching and network fallbacks.
12. Audit with lighthouse

Localization Needs

1. Maintaining property file(JSON) for each language based on need we execute will runtime or build time.

Infra architecture: recommendations

- 1. Jenkins or Azure DevOps
- 2. S3
- 3. Cloud Front
- 4. Route 53
- 5. Cloud Watch
- 6. Docker With React



Organization Architecture(monorepo) with Micro front End using Nx