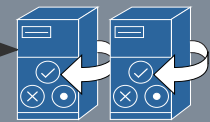
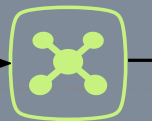
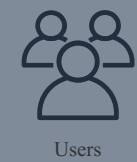
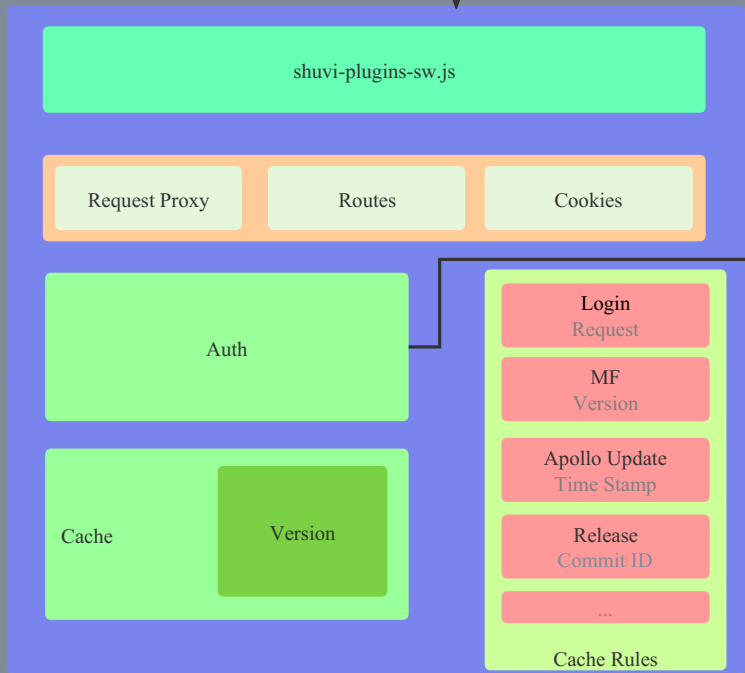


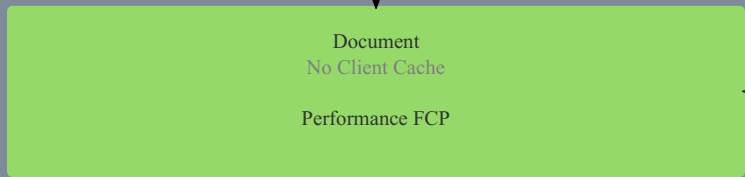
Web Performance Framework Diagram



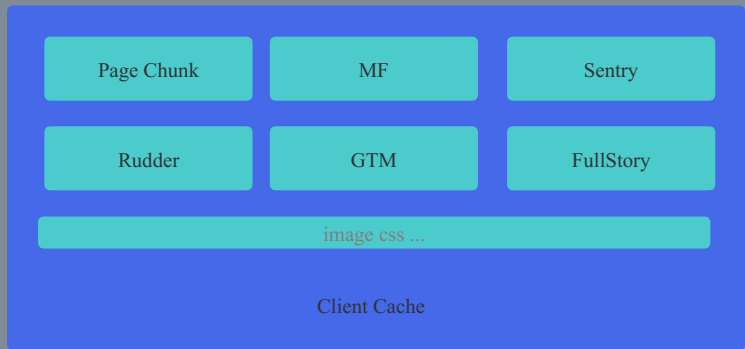
ServiceWorker



page



Resources



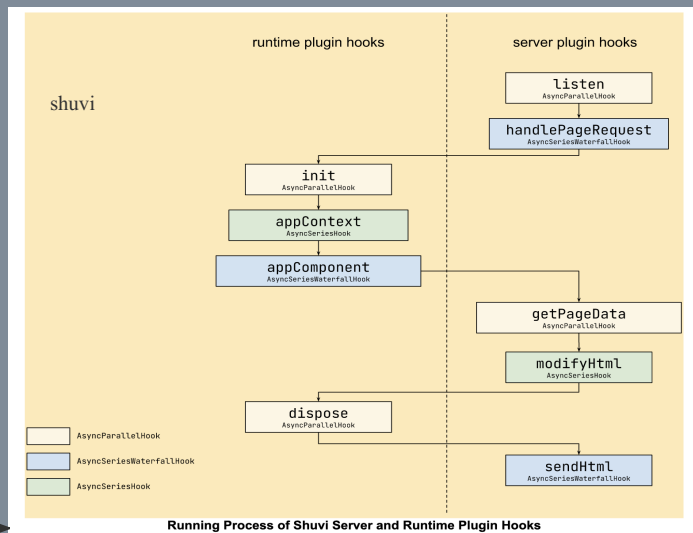
CDN

CDN Cache

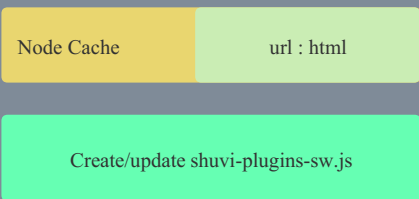
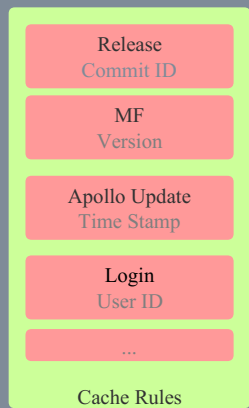
Node Server

BackEnd Server

Apollo



Running Process of Shuvi Server and Runtime Plugin Hooks



Background :
page speed slow like 1~2s. and every time visit will hit to node server and check login auth. for real-time to show login/no-login content. because they have different page url and content. so if have hacker-attack will cause server crash

Programmes and results :
remove auth in server. add auth in client (service-worker). add three caches

Client-Cache 5ms Service-Worker	one user. every time after first
CDN 100ms CDN-Cache	all users. every time after first in 2min
Server-Cache 800ms Memory-Cache / Redis	all users. every time after one update