Components

Selenium Suite → Collection

Selenium IDE

Sel RC
↓
Remote control

Sel WebDriver Grid

Sel1 → IDE, RC, Grid

52 version - FF
Sel2 → IDE, RC + WebDriver, Grid ✓✓

stable
Sel3 → [IDE, WebDriver, Grid]

(4) →

alpha | beta ✓✓

Sel2 → By default - Firefox

Sel3 → drivers → gecko driver
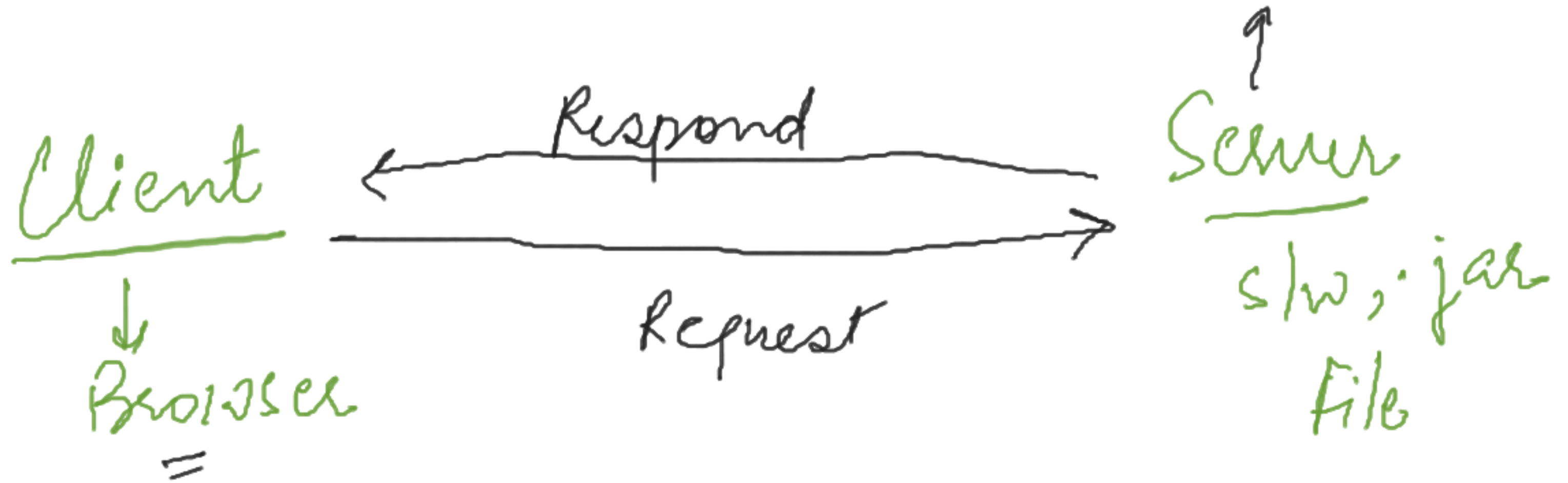
(i) Sel IDE, Play & Record Tool,

Avail in the form extension

↓

chrome

FF

→

(II) Sel RG → Follows client - Server Arch.

Client ⟵ Respond ⟶ Server

Request

Client ↓ Browser =

Server s/w ; jar File

SelRC + Grid — [Selenium Standalone Server

RC → Server Session Timeout
          ↓
        Server Restart

(2) can't Test
    Web Application
    Mobile

(3) Selenium   class — functional method
         ↓
       Create   object of Sel class
              ↓
              Obj.m1();

(II) Sel WebDriver :- Server X

→ client Arch.   → libs/jars
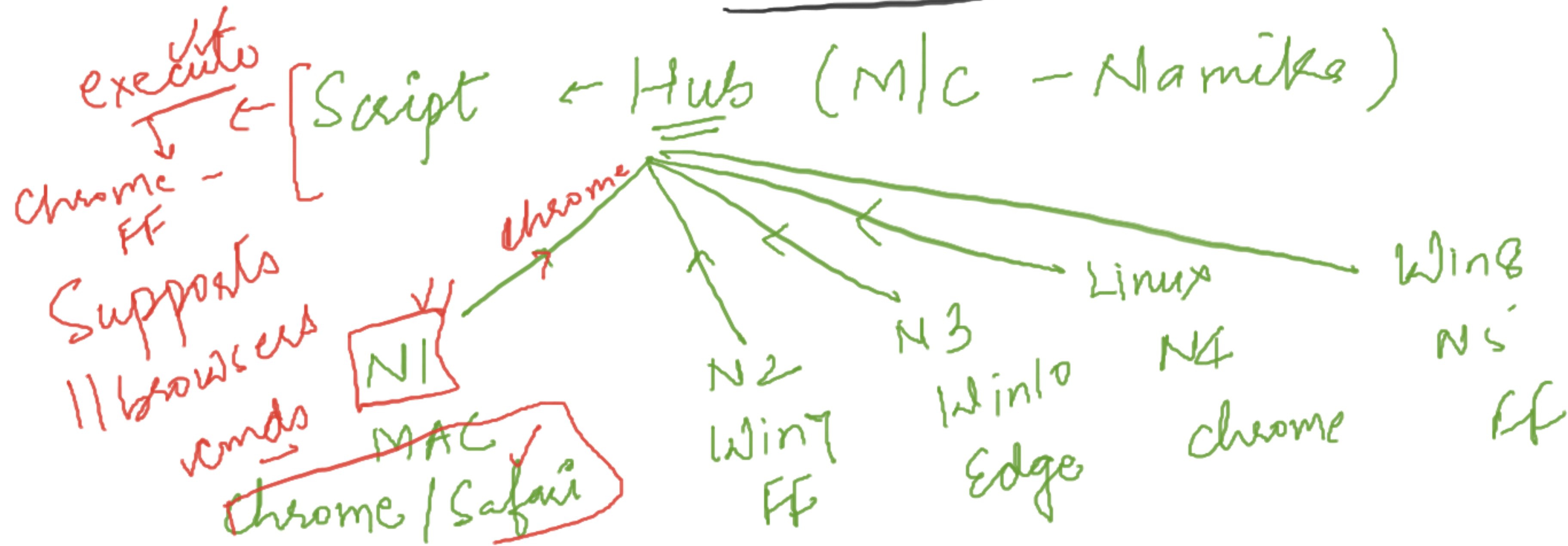
→ Customization

→ Mobile App.
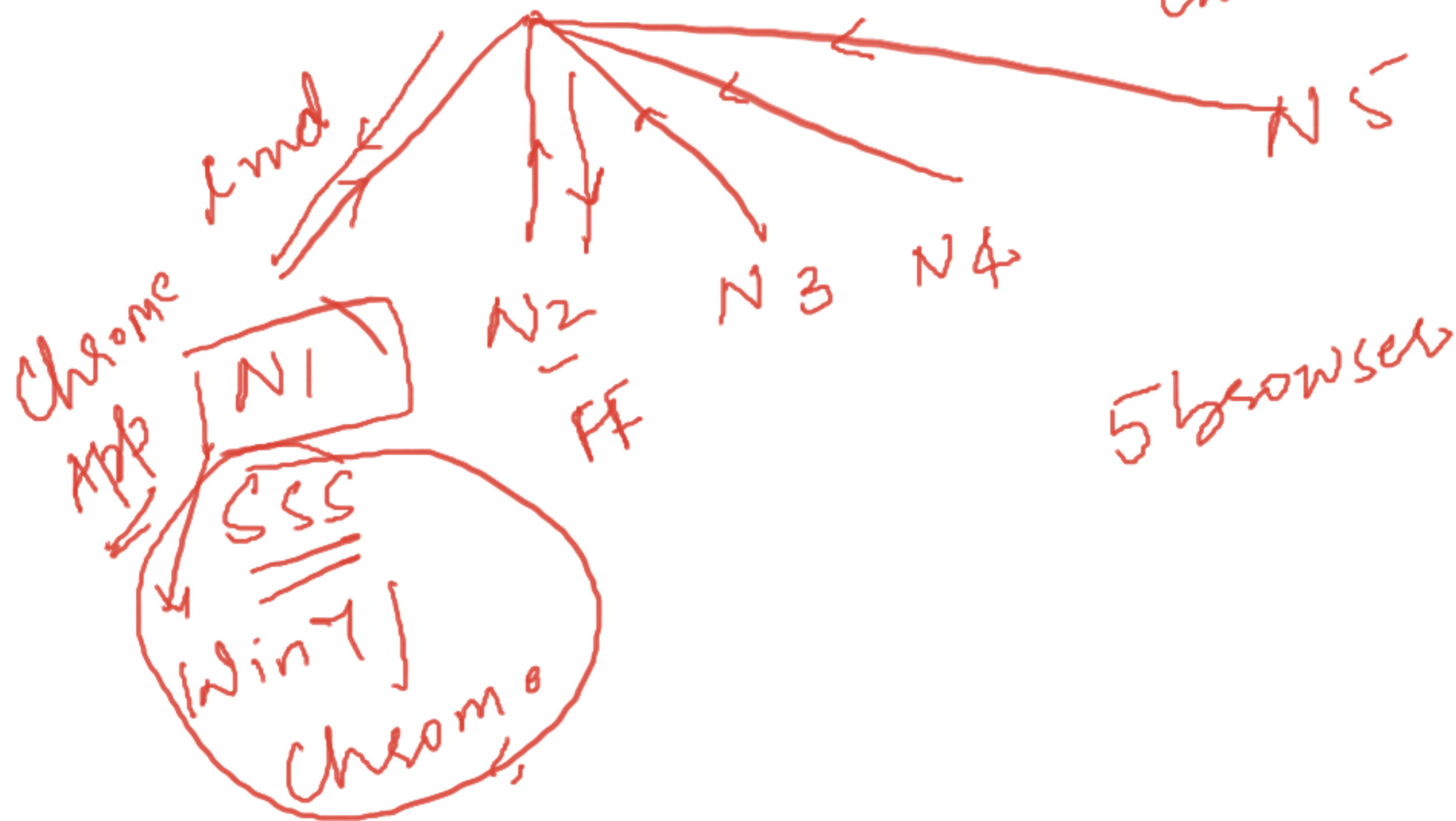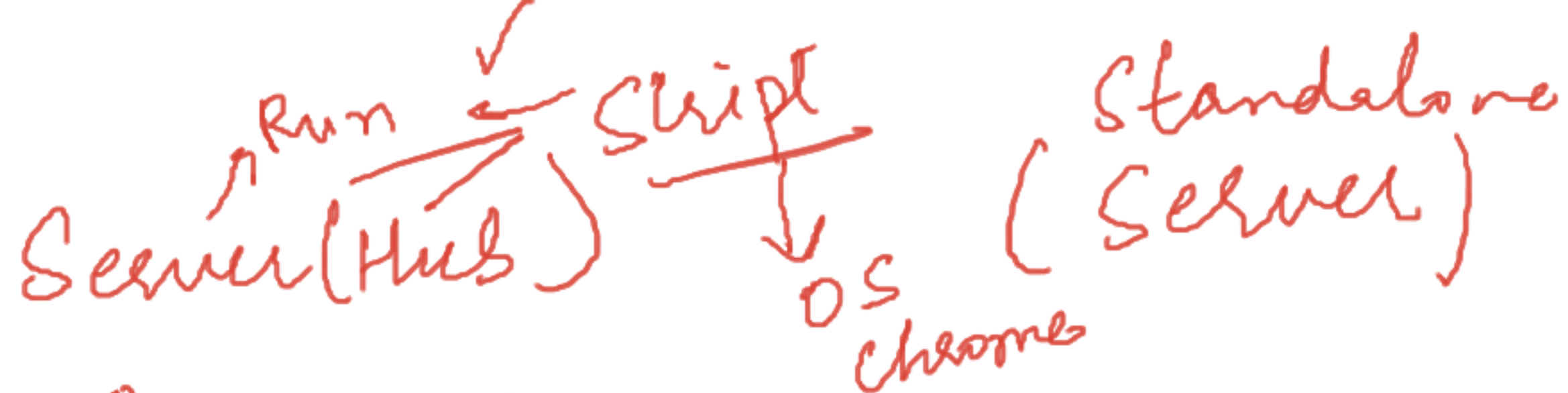
→ Faster   as compare to R C

(IV) Selenium Grid :- [Selenium standlone Server] used to perform IIel execution across various platforms

C - S $\Rightarrow$ Hub^S - Node^C Arch

execute $\leftarrow$ [Script $\leftarrow$ Hub (M/c - Namiks)

chrome - FF

Supports IIbrowsers

vcmds

chrome

N1
MAC
chrome / Safari

N2
Win7
FF

N3
Win10
Edge

Linux
N4
chrome

Win8
N5
FF

Run ✓ Script ✓ Standalone (Server)

Server (Hub) ⟶ OS chrome

Cmd

Chrome App

N1

SSS
[Win7]
Cheom₀

N2
FF

N3   N4

N5

5 browsers

1. [Drivers + Chrome Browser]

2. MAVEN → Browser }

Paths :- Abs., Relative
                              ↳ Dynamic
                C F
Project :- [D://training|Selenium|webDriver
                           chrome   ← driver   ← Project
                           driver.exe]

Relative → WebDriverproject/driver/
                                     chrome

findElement( ) ——— SearchContext (I) (parent
find Elements( )   interface

SearchContext underlined ↑ extends

✓ WebDriver (I) ≡

↑ Implements

extends RemoteWebDriver (c) → Grid

↑ extends   ↑ extends

[Chrome Driver   FFDriver   IE
(C)   (Cs)   (C)

Web Driver Arch. — Client Arch.

Sel 3 → < 3.8 →

3.8 >;

JS object Notation
& objects

[W3C] →

Real Browser

JSON X
Wire

protocol

console o/p

APIs

JAVA
C#
Ruby
Python

chrome
driver
exe

chrome

Script W3

(REST APIs) ←

driver

web → JSON

```
{
    id: 123,
    name: test
}
```

light weight

Array

XML → SOAP

<root>
    <document>

[JSON | XML]

YAML

</document

Node.JS

Mongo → DB
        <root>
Angular React

Project
        [java] → ⟦ . war ⟧ →
    java
        php → ⟦ . exe
                                        desktop
                                        . exe

Jenkins - Tool →
                    . java   . (war)

            lib → ⟦ . $. jar ⟧