Hidden Browser

Privacy-Enhanced Web Browsing:
A Server-Side Approach to Conceal Digital Footprints

by

Team No. 27

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Abstract

Hidden Portal shatters the barriers of censorship, unlocking the full potential of the web with its ingenious dynamic proxy dance. No more static configurations, no more predictable patterns – Hidden Portal waltzes across a vast network of anonymous servers, leaving firewalls bewildered and access granted. This isn't just a browser; it's a portal to unfettered information, a lifeline for those seeking digital freedom.

Introduction

Hidden Portal: Your Key to Unfettered Exploration

Cracked open, the forbidden door whispers secrets. Beyond it lies a world brimming with knowledge, uncensored and untamed. This world isn't a dream; it's your reality with Hidden Portal, the key that unlocks the boundaries and grants you ultimate freedom.

Forget static configurations and predictable paths. Hidden Portal dances with a kaleidoscope of anonymous servers, a graceful waltz that leaves firewalls bewildered and access granted. It's not just a browser; it's a passport to a hidden land, a secret handshake with fellow adventurers yearning to explore the unfiltered web.

Privacy as Your Cloak: In a world obsessed with watching, Hidden Portal becomes your invisibility cloak. It leaves no digital footprints, avoids sensitive information like a skilled magician, and lets you browse with the confidence of a ghost.

Proposed Method

Sometimes we face problems like we cannot access some specific sites because they are banned or blocked by our network administrator.

So we used a basic dynamic communication method in this browser that it will communicate randomly assigned servers to access internet.

It will request random servers to access the desired web page and then the servers will search them on the internet and revert the response to the browser.

Experimental Results and Discussion

```
135 130.474369962 10.12.36.220      10.12.255.255      NBNS
136 131.230593120 10.12.36.220      10.12.255.255      NBNS
137 131.230593502 10.12.36.220      10.12.255.255      NBNS
138 131.230593557 10.12.36.220      10.12.255.255      NBNS
142 132.711487468 10.12.36.220      10.12.255.255      BROWSER
179 168.346589213 10.12.36.220      10.12.255.255      NBNS
180 168.346590251 10.12.36.220      10.12.255.255      NBNS
181 168.346917659 10.12.36.220      10.12.255.255      NBNS
```

➤ Successfully tested in local environment with custom configured firewall.

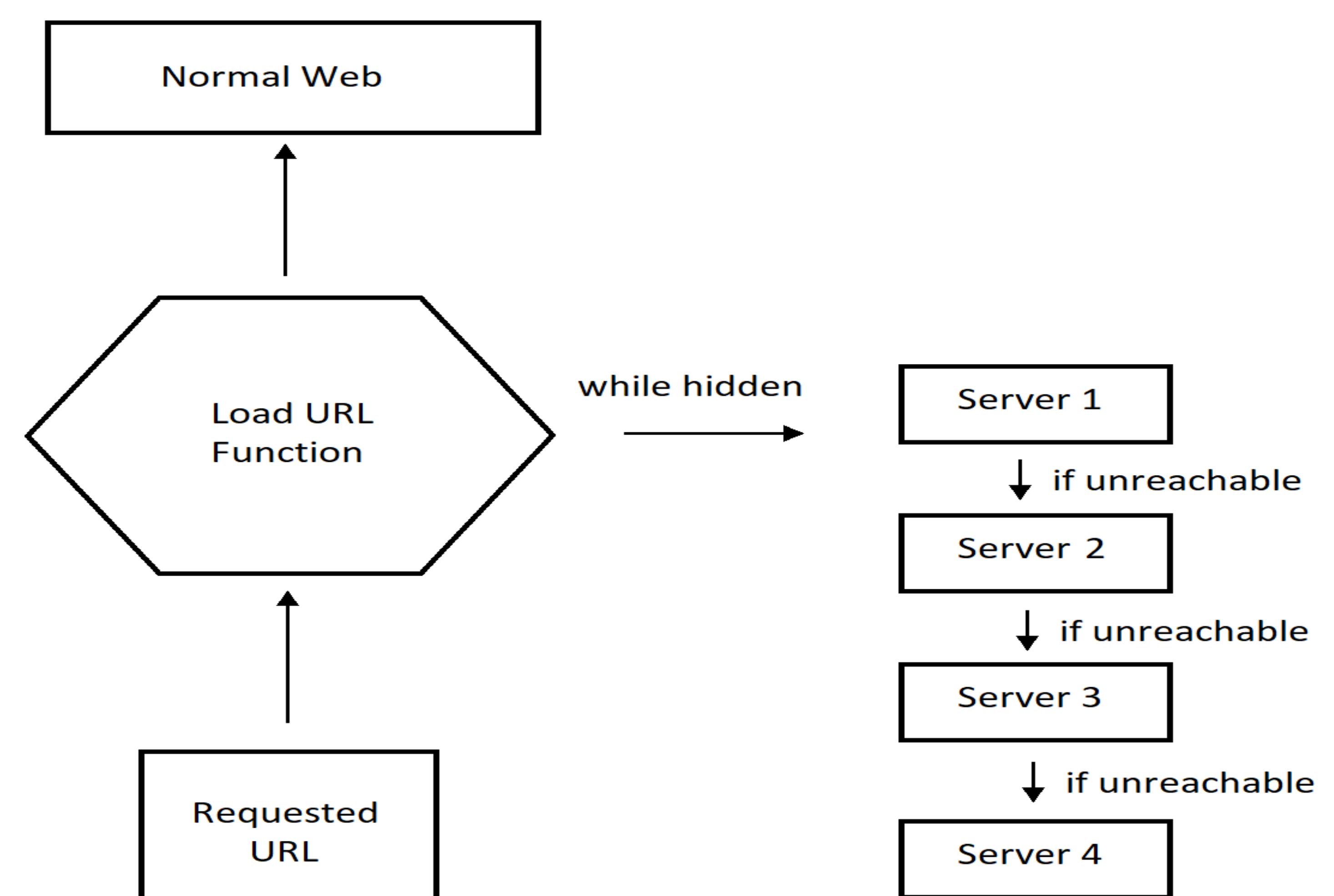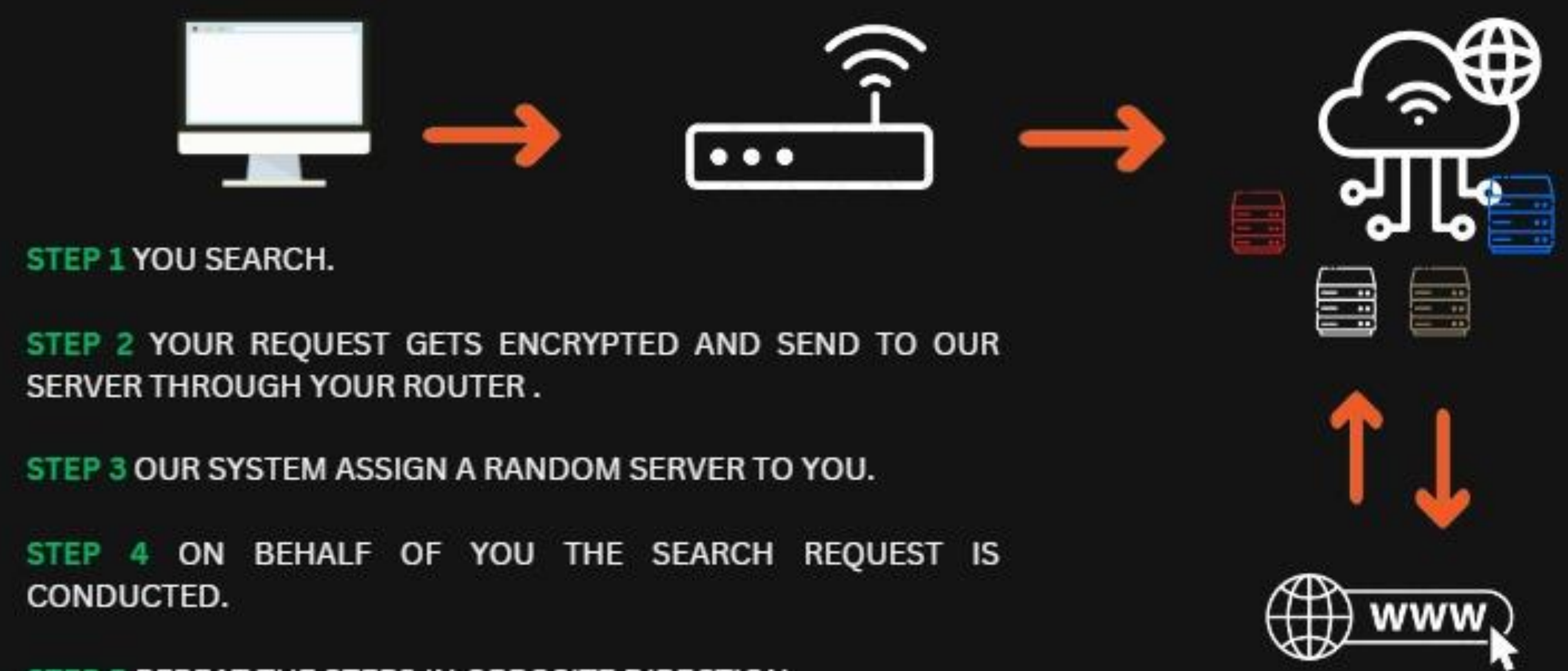### THE BROWSER'S SECRET MISSION: GETTING THE JOB DONE!

STEP 1 YOU SEARCH.

STEP 2 YOUR REQUEST GETS ENCRYPTED AND SEND TO OUR SERVER THROUGH YOUR ROUTER.

STEP 3 OUR SYSTEM ASSIGN A RANDOM SERVER TO YOU.

STEP 4 ON BEHALF OF YOU THE SEARCH REQUEST IS CONDUCTED.

STEP 5 REPEAT THE STEPS IN OPPOSITE DIRECTION

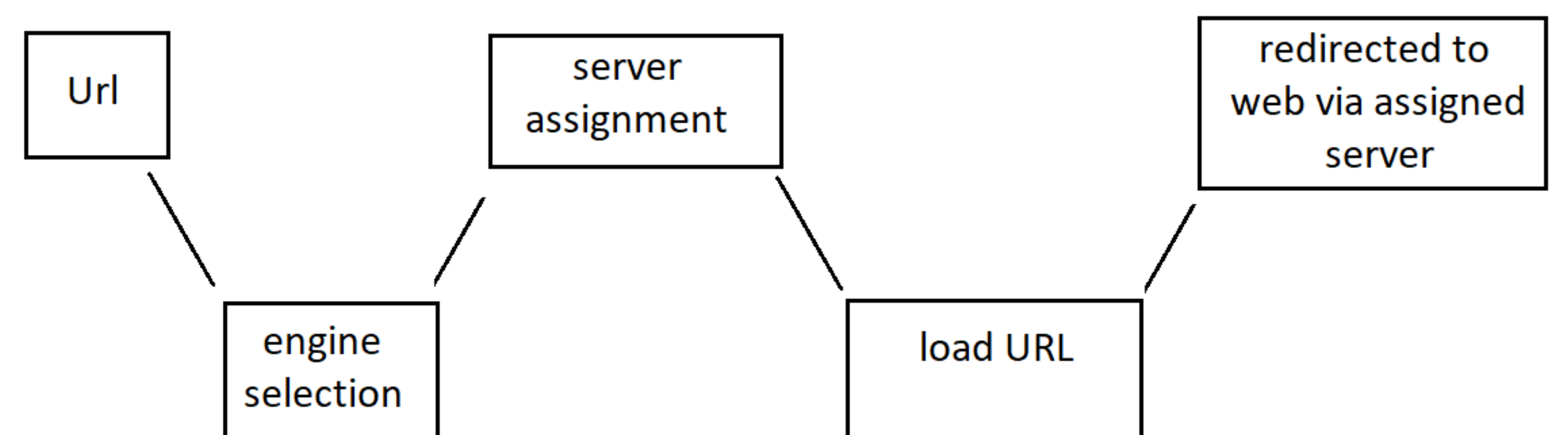**Fig 1. Function Working diagram**

fig 2. Data Processing diagram

Conclusions

When the browser is connected to our private server it will hide the user footprint and bypass the restrictions that are in the network, the server will process the request on the behalf of the user and will return the response as the same.

```
loading google.com via local web
public
loading google.com via hidden server
private
```

References

Mr. Prateek Yadav
Dr. Suneet Gupta