

start

open TCP socket with port ....  
open UDP socket with port 80

wait to receive a message  
from UDP or TCP

is message  
TCP or UDP?

UDP

UDP

Extract server address  
Extract request

Extract server address  
Extract request

is it in the  
cache?

No

Yes

is it in the  
cache?

Yes

No

open UDP socket  
with server address

receive response  
from cache

receive response  
from cache

open TCP socket  
with server address

send DNS request  
turn on Timer

send HTTP request  
turn on Timer

is response  
transmitted before  
timeout?

is response  
transmitted before  
timeout?

Yes

Yes

receive response

receive response

save in cache

save in cache

send response to  
client with TCP

send response to  
client with UDP

No

No