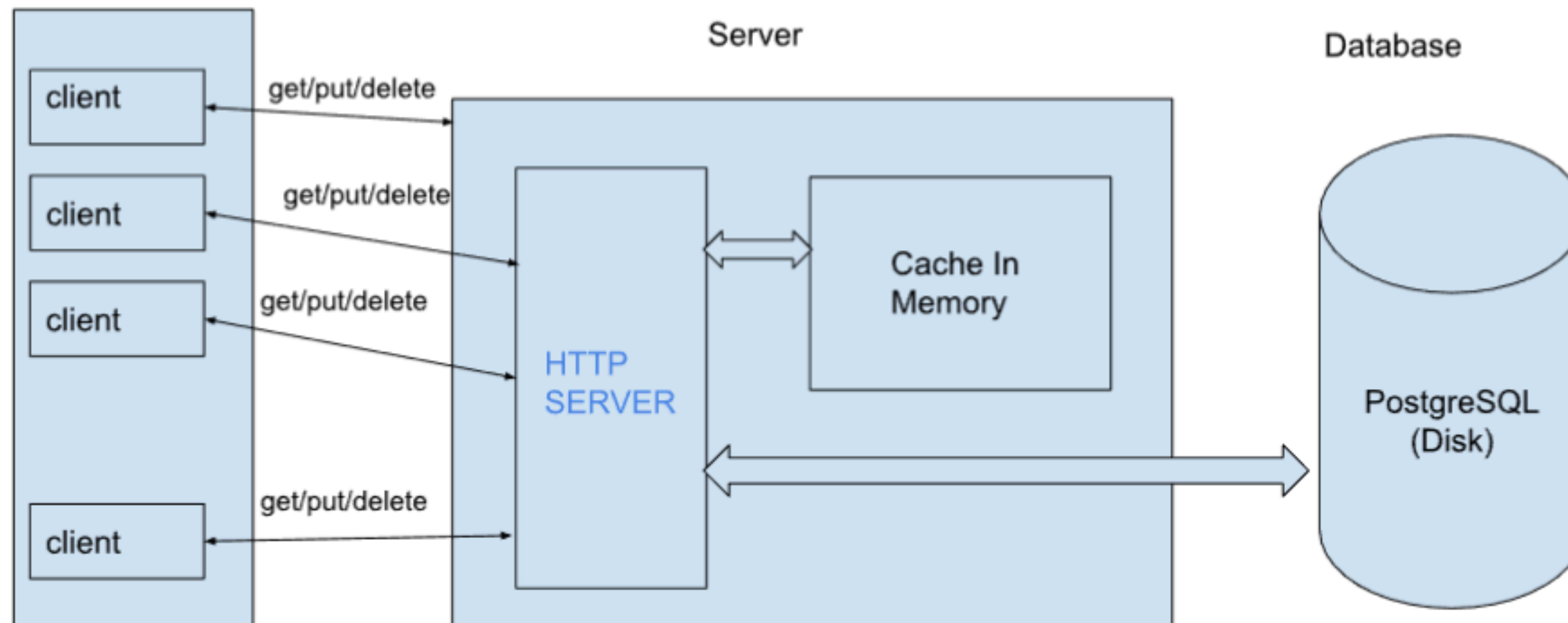


Multi-Tier key value server

Rudreswar Pal- 25m0750



Devolopement Process:

Server : C++ with cibetweb

cache: a list stored in dram(size 10000)

database : Postgresql

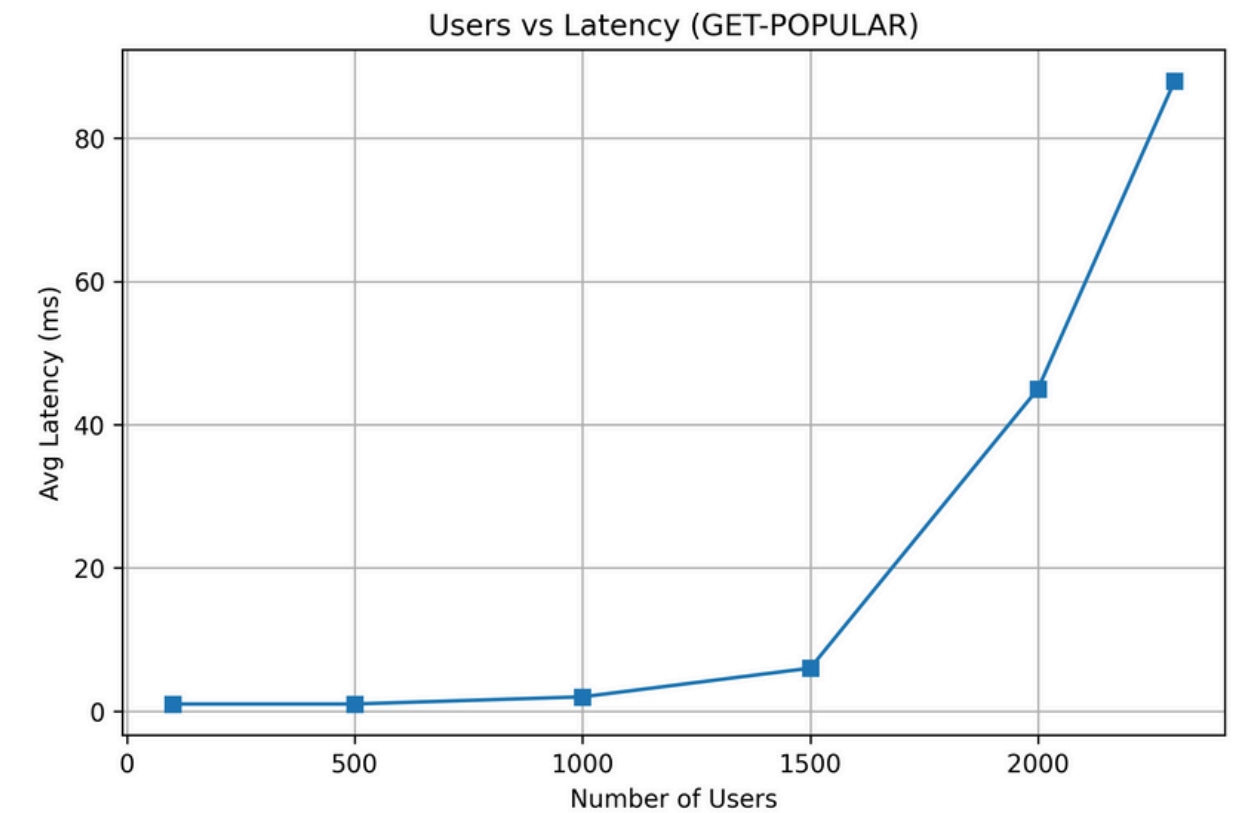
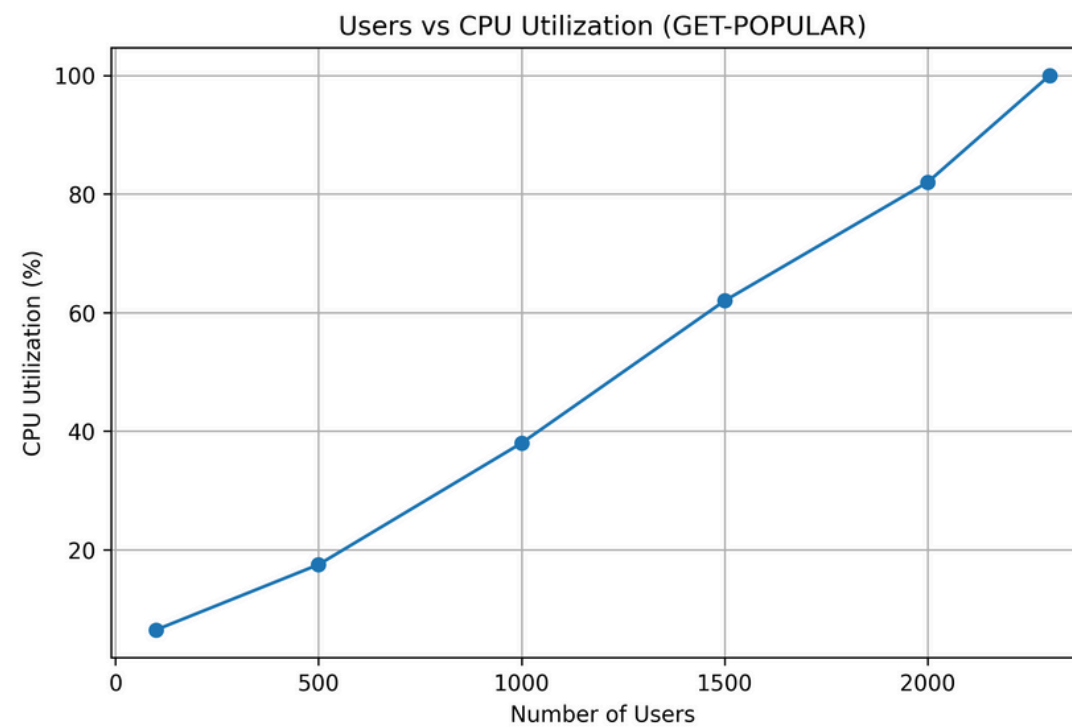
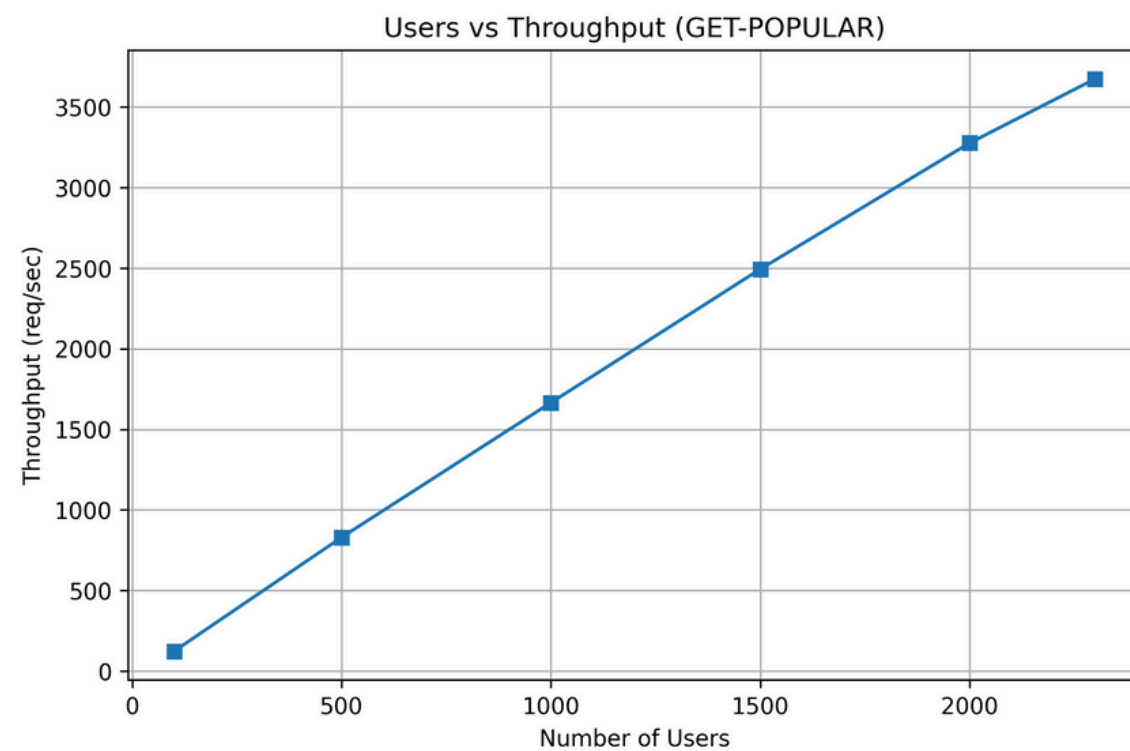
loadgenerator : apache jmeter

load test setup:

- Docker is used
- Server is used as a container
- Database is in another container:connected via tcp in local network in
docker : port 5432
- apache jmeter in host machine

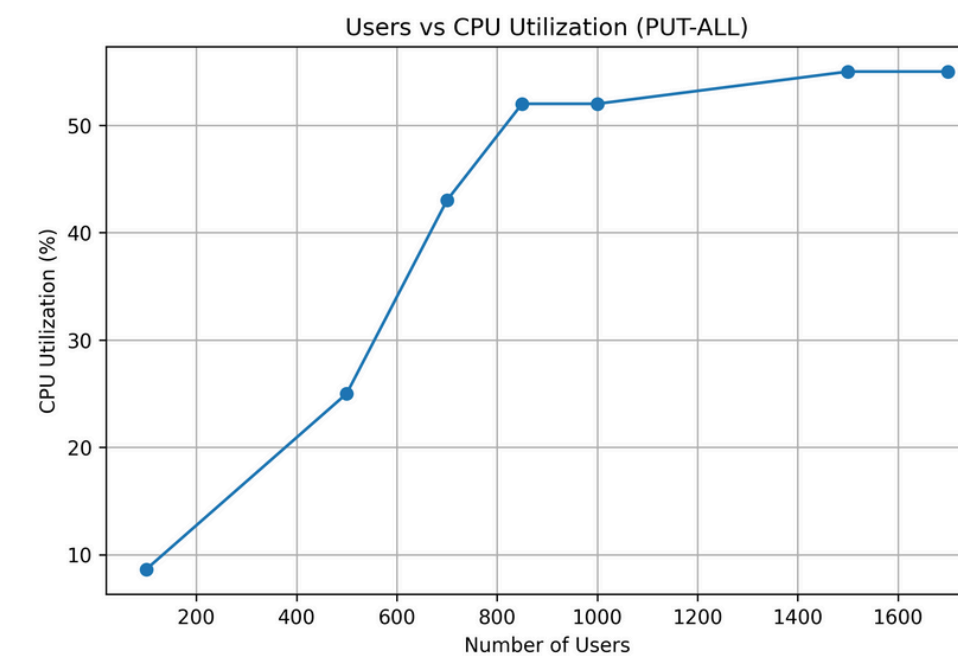
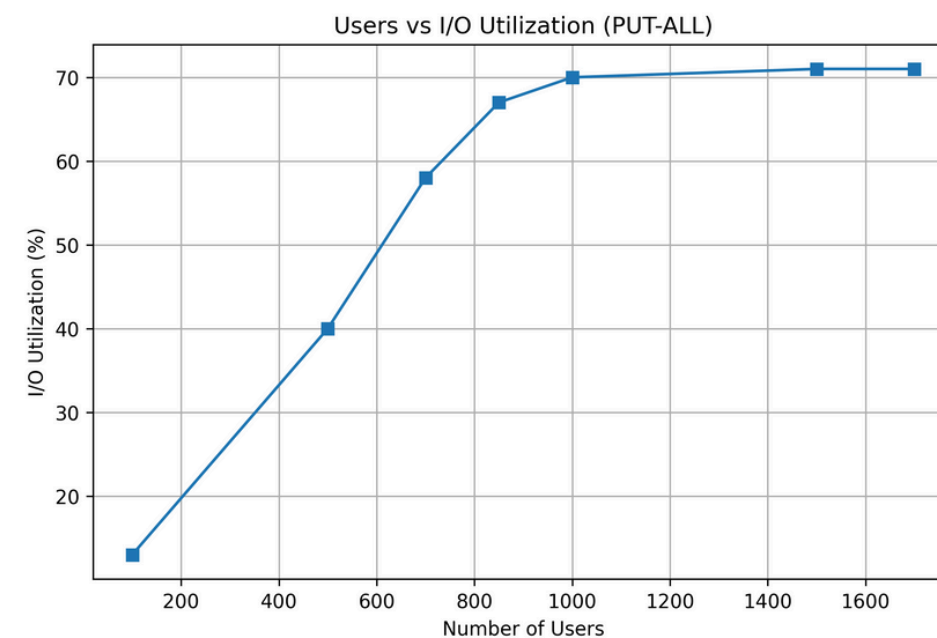
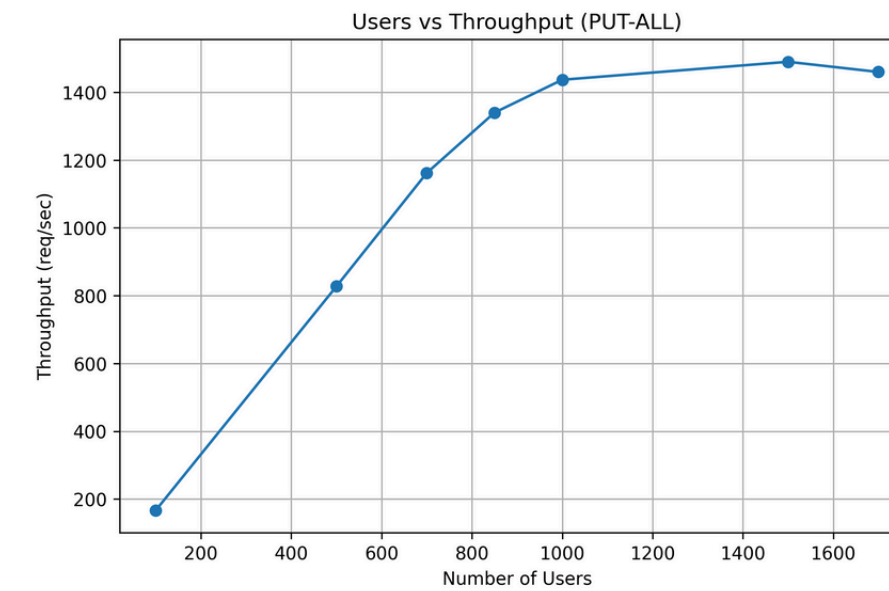
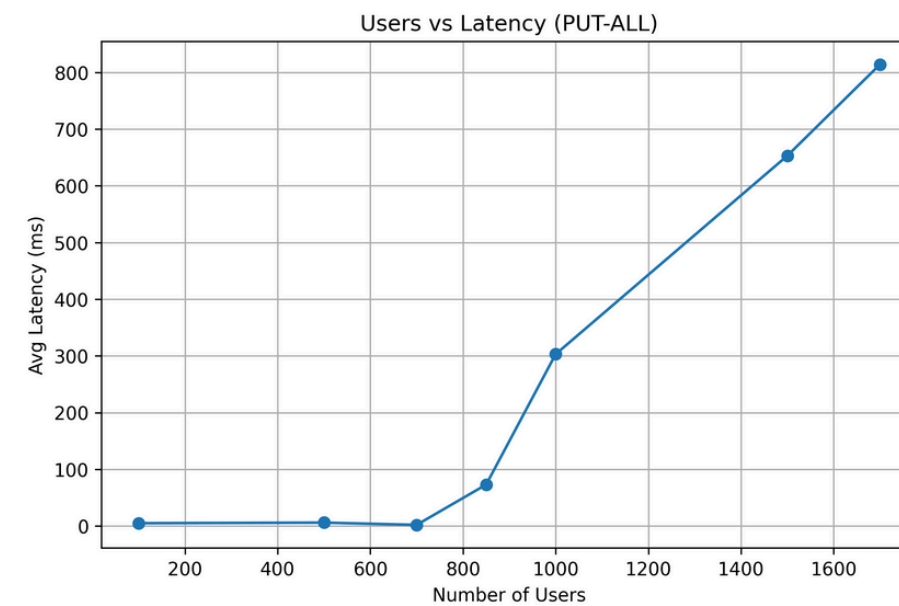
Loadtest 1:cpu bottle neck

Get Popular: 8000 unique key and request send in loop
all request will hit cache



Loadtest 2:IO bottle neck

put all: random key from 1 to 1000000 and request send in loop
all request hits database



THANK YOU!