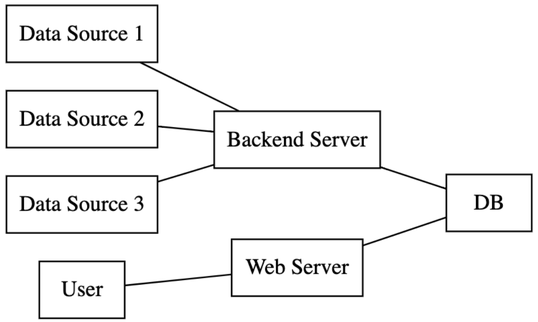
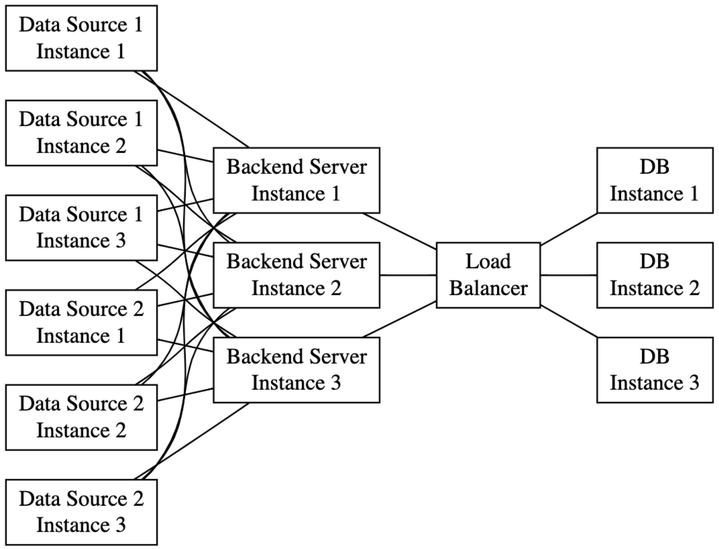
a progression of models
and their visualization

some speculations
december 2020



all abstract blocks (as imagined)

```
export { start }

const delay = (ms) => new Promise(resolve => setTimeout(resolve, ms))
let log = (thing, details) => console.log(thing, details)

const prob = (pcnt) => Math.random()*100 < pcnt
const norm = (mean) => (Math.random()-Math.random()+1)*mean
const choose = (list) => {for (let one of list) if (prob(50)) return one; return '500 error'}

function start(logger) {
  if(logger) log = logger
  for (let name of ['Joshua', 'Beth', 'Ward', 'Eric']) person(name)
  for (let vendor of ['amazon', 'apple', 'shopify']) source(vendor)
}

async function person(name) {
  for (let i = 0; i<1000; i++) {
    log('work', name)
    await webserver(choose(['search', 'browse', 'update', 'select', 'details', 'purchase', 'checkout']))
    await delay(norm(name.length*100))
  }
}

async function webserver(query) {
  log('webserver', query)
  await database(prob(80) ? 'read' : 'write')
  await delay(norm(query.length*100))
}

async function database(op) {
  log('database', op)
  await delay(norm(op.length*100))
}

async function source(vendor) {
  for (let i = 0; i<1000; i++) {
    log('deliver', vendor)
    await backend(choose(['crate','box','bag']))
    await delay(norm(vendor.length*100))
  }
}

async function backend(delivery) {
  log('backend', delivery)
  await database(Math.random()<0.8 ? 'read' : 'write')
  await delay(Math.random()*delivery.length*100)
}
```



some blocks made more concrete (expanded along one of many dimension)

simulation to be developed

entities and actions
to be more dimensional
than shown

some blocks made more concrete
(expanded along a few of
of many dimension)