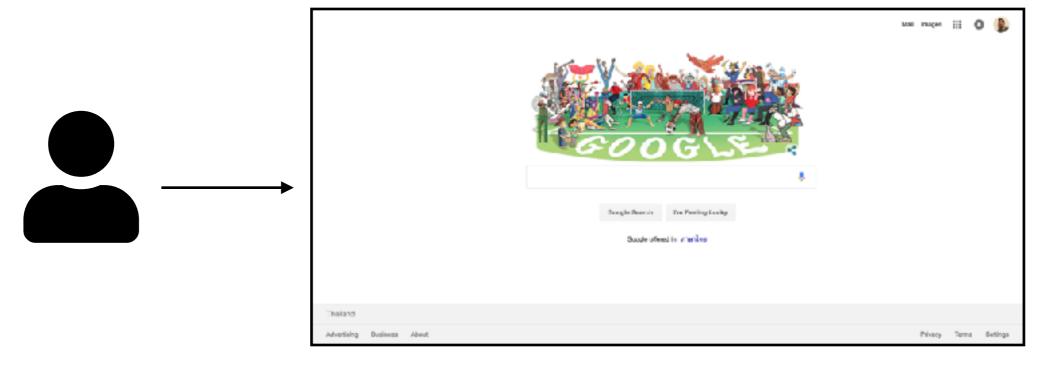
Web service

Prayoch Rujira Clockup studio

Web

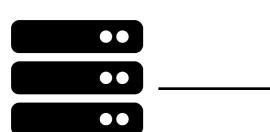
www.google.com



Web service

https://www.googleapis.com/customsearch/v1?parameters

```
"kind": "customsearch#result",
            "title": "Lectures",
            "htmlTitle": "<b>Lectures</b>",
            "link": "https://www.cis.upenn.edu/~cis160/current/lectures.html",
            "displayLink": "www.cis.upenn.edu",
            "snippet": "Lectures are held in CHEM102 every Tuesday and Thursday from
1:30-3:00 PM. \nWhile lecture attendance is not mandatory, it is highly recommended
that you...",
             "htmlSnippet": "<b>Lectures</b> are held in CHEM102 every Tuesday and
Thursday from 1:30-3:00 PM. <br/>or>\nWhile <b>lecture</b> attendance is not mandatory, it
is highly recommended that you ...",
            "cacheId": "k9487vOAo70J",
            "formattedUrl": "https://www.cis.upenn.edu/~cis160/current/lectures.html",
            "htmlFormattedUrl": "https://www.cis.upenn.edu/~cis160/current/
<b>lectures</b>.html",
             "pagemap": {
                "metatags": [
                         "viewport": "width=device-width, initial-scale=1.0"
            "labels": [
                    "name": "lectures",
                    "displayName": "Lectures",
                    "label with op": "more:lectures"
        },
            "kind": "customsearch#result",
            "title": "Gibbons Lecture Series - The University of Auckland",
            "htmlTitle": "Gibbons <h>Lecture</h> Series - The University of Auckland"
```



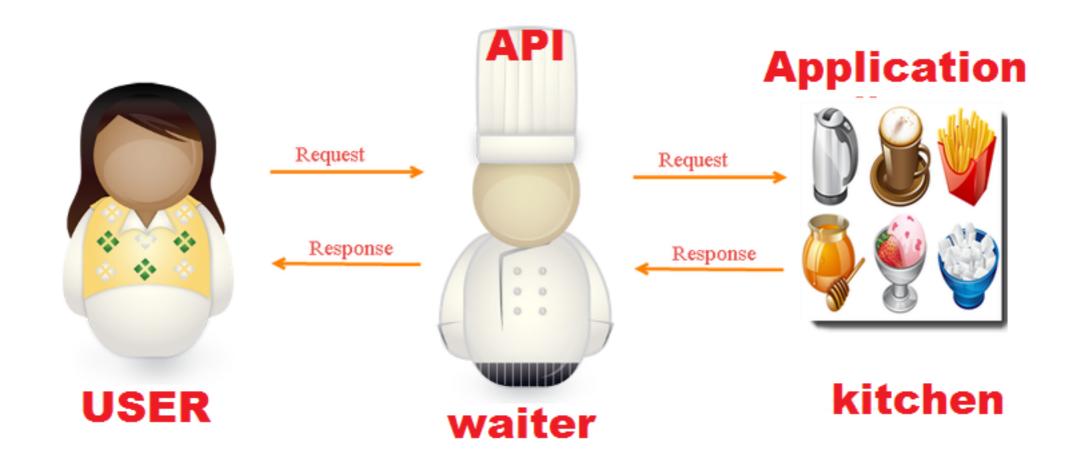
Why web service?



system A wants to connect to API of system B via HTTP protocol

API

Application Programming Interface



Making request to Web service

Method

Endpoint

GET

https://www.googleapis.com/customsearch/v1

Headers

Content-type=Application/json

Making request to Web service

Method

Endpoint

POST

https://mophconnect-ega.clockupstudio.com/test1/api/queue

Headers

Content-type=Application/json

```
Body
```

```
{
    "userId": "Ub65b5fd5c6669e7710094c69a50469a6",
    "hospitalName": "โรงพยาบาลปทุมธานี",
    "origin": "กระทรวงสาธารณสุข",
    "queueNumber": "จุดคัดกรอง คิวที่ 2221",
    "patientName": "นาย ประโยชน์ รุจิรา",
    "appointmentDate": "2018-04-30",
    "appointmentTime": "เวลานัดหมาย 09:00-09:15 น. กรุณามาก่อนเวลา 10 นาที",
    "detailsLink": "http://pth.ddns.net/",
    "currentQueueLink": "http://pth.ddns.net/"
}
```

HTTP Methods

http://www.restapitutorial.com/lessons/httpmethods.html

Response from web service

Status code

200 OK

Headers

Content-type=Application/json

Body

```
"items": [
       "kind": "customsearch#result",
       "title": "Lectures",
       "htmlTitle": "<b>Lectures</b>",
       "link": "https://www.cis.upenn.edu/~cis160/current/lectures.html",
       "displayLink": "www.cis.upenn.edu",
       "snippet": "Lectures are held in CHEM102 every Tuesday and Thursday from 1:30-3:00 PM. \nWhile lecture attendance is not mandatory, it is highly recommended that
you ...".
       "htmlSnippet": "<b>Lectures</b> are held in CHEM102 every Tuesday and Thursday from 1:30-3:00 PM. <br/>br>\nWhile <b>lecture</b> attendance is not mandatory, it is
highly recommended that you ...",
       "cacheld": "k9487vOAo70J",
       "formattedUrl": "https://www.cis.upenn.edu/~cis160/current/lectures.html",
       "htmlFormattedUrl": "https://www.cis.upenn.edu/~cis160/current/<b>lectures</b>.html",
       "pagemap": {
         "metatags": [
              "viewport": "width=device-width, initial-scale=1.0"
```

Status code

http://www.restapitutorial.com/httpstatuscodes.html

JSON Javascript Object Notation

https://www.w3schools.com/js/js_json_intro.asp