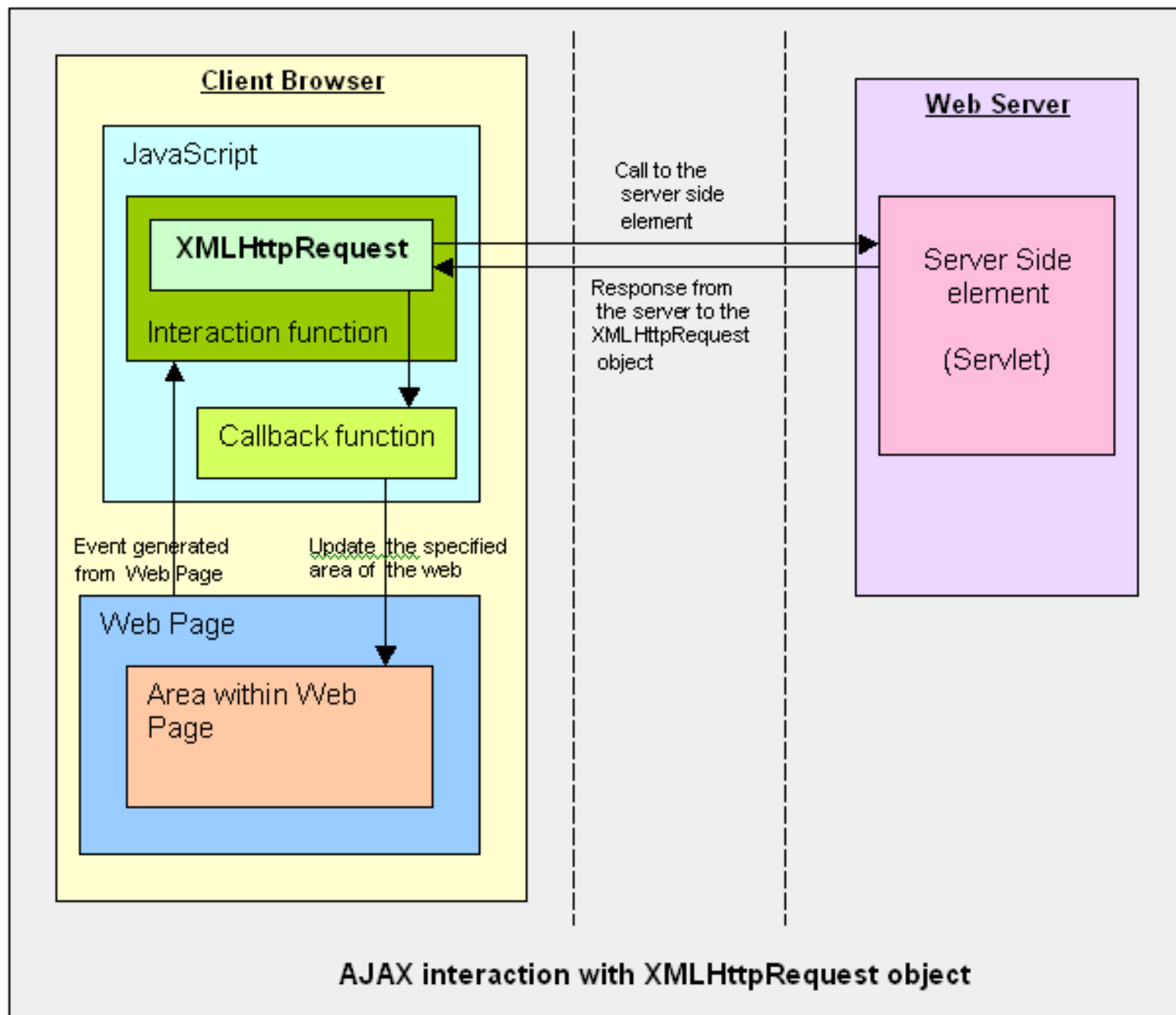




# Webservices



## Index.php

### Php

Code om verbinding met db te leggen en om berekeningen mee uit te voeren.

### HTML

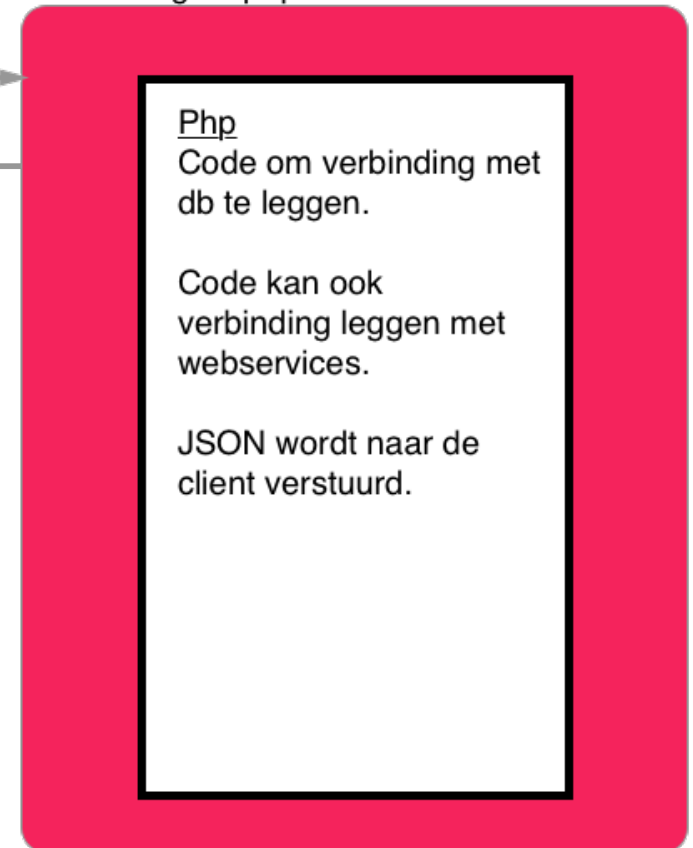
HTML code met daarin php variabelen voor het inladen van dynamische gegevens.

Wanneer er in dit geval een formulier data opstuurt is de gehele pagina niet te gebruiken en moet je wachten totdat de pagina opnieuw is geladen.

Index.html



doeletsPagina.php



json

json

json



**JavaScript Object Notation**, is a **text-based** open standard designed for human-readable data interchange.

It is derived from the **JavaScript** scripting language for **representing simple data structures** and associative arrays, called objects.

Despite its relationship to JavaScript, it is **language-independent**, with parsers available for many languages.



# JSON

## //VOORBEELD JSON

```
{
  "games": [
    {
      "title": "Footballmanager",
      "genre": "simulation",
      "specs": {
        "multiplayer": "yes",
        "resolution": 1024
      },
      "price": {
        "@currency": "euro",
        "#value": 20
      },
      "console": ["PC", "MAC", "PS3"]
    }
  ]
}
```

# JSON Validatie

**JSONLint**  
The JSON Validator

<http://jsonlint.com/>



# JSON Chrome Plugin

[https://chrome.google.com/webstore/  
detail/jsonview/  
chklaanhfefbnpoihckbnefhakgolnmc](https://chrome.google.com/webstore/detail/jsonview/chklaanhfefbnpoihckbnefhakgolnmc)

## Oefenen met json

Maak nu eens een json string van  
*al(?!) je muziek.*

*(Voeg tenminste 5 nummers toe)*

# JSON

## //VOORBEELD JSON

```
{
  "nummers": [
    {
      "title": "You are my best friend",
      "artiest": "Queen",
      "album": "A night at the Opera",
      "duur": "2:58",
      "prijs": 0.99
    },
    {
      "title": "Rocky Road",
      "artiest": "Newworldson",
      "album": "newworldson",
      "duur": "5:35",
      "prijs": 0.99
    }
  ]
}
```

voorbeeld  
json

# JSON

## //VOORBEELD JSON (playlist.json)

```
{
  "author": "Rimmert Zelle",
  "nummers": [
    {
      "title": "You are my best friend",
      "artiest": "Queen",
      "album": "A night at the Opera",
      "duur": "2:58",
      "prijs": 0.99
    },
    {
      "title": "Rocky Road",
      "artiest": "Newworldson",
      "album": "newworldson",
      "duur": "5:35",
      "prijs": 0.99
    }
  ]
}
```

# JSON

## //VOORBEELD JSON IN PHP

### //Load file contents in PHP var

```
$playlist = file_get_contents("playlist.json");
```

### //Decode JSON to PHP object

```
$playlist_json = json_decode($playlist);
```

```
echo "<pre>";  
print_r($playlist_json);  
echo "</pre>";
```

### //Echo properties directly

```
echo $playlist_json->author . "<br/>";  
echo $playlist_json->nummers[0]->album . "<br/>";
```

### //Loop through list of nummers

```
foreach ($playlist_json->nummers as $nummer) {  
    echo 'Title is ' . $nummer->title . "<br/>";  
}
```

webservice  
in actie

# Webservices

- Webservices zijn steeds vaker gebaseerd op het REST principe (GET, POST, PUT, DELETE) IPV oudere technieken zoals SOAP of XML-RPC
- Facebook, Twitter, Instagram, etc. bieden hun eigen API aan in de vorm van een webservice
- Vaak wordt binnen een Webservice het OAuth principe gebruikt om alles veilig te laten lopen (Zie: <http://oauth.net/>)



**flickr**<sup>TM</sup>

# App Aanmaken

<https://www.flickr.com/services/api/>

## The App Garden

[Create an App](#) | [API Documentation](#) | [Feeds](#) | [What is the App Garden?](#)

Done! Here's the API key and secret for your new app:



flickr-cmgt

Key:

[Redacted API Key]

Secret:

[Redacted API Secret]

[Edit app details](#) - [Edit auth flow for this app](#) - [View all Apps by You](#)

## What to do next

If your key is to use in an application that someone else developed, for example to display your own or your group's photos blog, then you're all done!

## **Aanmaken Flickr APP**

Maak je eigen Flickr App aan via  
<https://www.flickr.com/services/api/>  
je hebt een flickr account nodig!

# Lees documentatie

- Mogelijke data:  
<https://www.flickr.com/services/api/flickr.photos.search.html>
- Flickr Key is verplicht, uitgebreidere calls hebben een SECRET nodig
- Met een SECRET krijg je meer data, kun je inloggen en userdata gebruiken

# The App Garden

[Create an App](#) | [API Documentation](#) | [Feeds](#) | [What is the App Garden?](#)

The Flickr API is available for non-commercial use by outside developers. Commercial use is possible by prior arrangement.

## Read these first:

- [Developer Guide](#)
- [Overview](#)
- [Encoding](#)
- [User Authentication](#)
- [Dates](#)
- [Tags](#)
- [URLs](#)
- [Buddyicons](#)
- [Flickr APIs Terms of Use](#)

- [API Keys](#)
- [Developers' mailing list](#)

## Photo Upload API

- [Uploading Photos](#)
- [Replacing Photos](#)
- [Example Request](#)
- [Asynchronous Uploading](#)

## Request Formats

- [REST](#)
- [XML-RPC](#)
- [SOAP](#)

## Response Formats

- [REST](#)

## API Methods

### activity

- [flickr.activity.userComments](#)
- [flickr.activity.userPhotos](#)

### auth

- [flickr.auth.checkToken](#)
- [flickr.auth.getFrob](#)
- [flickr.auth.getFullToken](#)
- [flickr.auth.getToken](#)

### auth.oauth

- [flickr.auth.oauth.checkToken](#)
- [flickr.auth.oauth.getAccessToken](#)

### blogs

- [flickr.blogs.getList](#)
- [flickr.blogs.getServices](#)
- [flickr.blogs.postPhoto](#)

### cameras

- [flickr.cameras.getBrandModels](#)
- [flickr.cameras.getBrands](#)

### collections

- [flickr.collections.getInfo](#)
- [flickr.collections.getTree](#)

### commons



## The App Garden

[Create an App](#) | [API Documentation](#) | [Feeds](#) | [What is the App Garden?](#)

### flickr.photos.search

Return a list of photos matching some criteria. Only photos visible to the calling user will be returned. To return private or semi-private photos, the caller must be authenticated with 'read' permissions, and have permission to view the photos. Unauthenticated calls will only return public photos.

#### Authentication

This method does not require authentication.

#### Arguments

**api\_key** (Required)

Your API application key. [See here](#) for more details.

**user\_id** (Optional)

The NSID of the user whose photo to search. If this parameter isn't passed then everybody's public photos will be searched. A value of "me" will search against the calling user's photos for authenticated calls.

**tags** (Optional)

A comma-delimited list of tags. Photos with one or more of the tags listed will be returned. You can exclude results that match a term by prepending it with a - character.

**tag\_mode** (Optional)

Either 'any' for an OR combination of tags, or 'all' for an AND combination. Defaults to 'any' if not specified.

**text** (Optional)

A free text search. Photos whose title, description or tags contain the text will be returned. You can exclude results that match a term by prepending it with a - character.

**min\_upload\_date** (Optional)

Minimum upload date. Photos with an upload date greater than or equal to this value will be returned. The date can be in the form of a unix timestamp or mysql datetime.

**max\_upload\_date** (Optional)

Maximum upload date. Photos with an upload date less than or equal to this value will be returned. The date can be in the form of a unix timestamp or mysql datetime.

# Instagram API in PHP

**//VOORBEELD PHP**

```
require_once('includes/settings.php');  
require_once('includes/classes/Flickr.php');  
  
$flickr = new Flickr(FLICKR_KEY, FLICKR_SECRET);  
$data = $flickr->search('sun');  
  
print_r($data);
```

## **Oefenen met flickr**

De connectie met flickr is gelegd.  
*Probeer nu eens van de eerste foto  
de title te pakken.*



## **Oefenen met flickr**

Probeer nu eens de plaatjes ook daadwerkelijk in  
*de browser te laten zien.*

*De url waar we naar op zoek zijn is:*

*`http://farm{farm-id}.static.flickr.com/{server-id}/{id}_{secret}.jpg`*

Voor  
woensdag/  
donderdag

# Huiswerk

# Opdracht 1

*Deadline: donderdag of woensdag as.*

*Food magazine for students.*

Haal gerechten uit een database.

Vind plaatjes over die gerechten op flickr.

Maak er een gecombineerde JSON string van.

Voor een uitgebreide omschrijving zie opdracht1-food-magazine-json.pdf