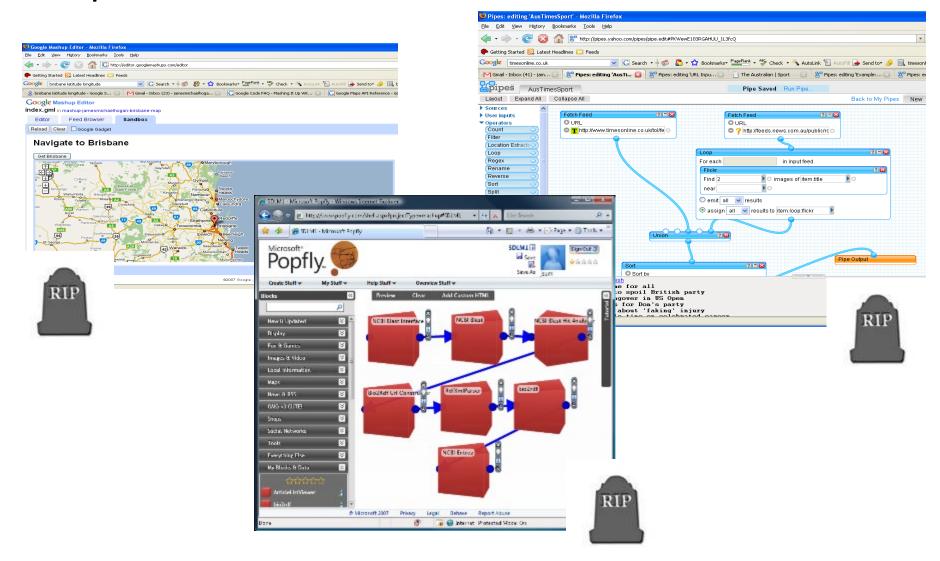
CAB432 Assignment 1

A Quick Overview

The basics

- Mashups/Docker Assignment
- Release: August 12 2022
- Submission: Monday, September 19 2022 (Week 9)
- Weighting: 30% of Unit Assessment
- Task: Individual Project

Mashups



The Basic Task

- Create a simple web application
 - A mashup of services and data (see the next slides)
 - Technically an extension of our prac exercises in weeks 4 and 5
- 'Dockerise' the app
 - Create a Docker container that hosts your app
 - Building on the prac over weeks 2 and 3
- Deploy to a public cloud
 - You *must deploy using docker* to get a good mark
- Implement a page view counter
 - You must use a cloud persistence service
- Show us that it works in a demo
 - Most of the marking will be face to face (subject to COVID restrictions)
 - The rest will be based on your code and report

The Mashup

- The application is a mashup of services or data
 - There must be at least two APIs involved
 - Mashup must be implemented (mainly) on the server
 - The client can be very simple bootstrap with divs is normal
- The mashup has to 'add value'
 - You need at least two use cases
 - You have to integrate the services
 - The user needs to get something more than just side by side results
 - Normally this means using results from one to query another

Example

• Suppose I have a favourite band – let's call them *The Band*

- I can search for musicians from the same genre
 - Artists like The Band

- I can search for their concerts
 - Upcoming concerts by The Band
- The Band is the query in each case

Example

The Band

Find artists like my favourite band

The Other Band

The New Band The Band that is better than The Band

The Band

Find gigs by my favourite band

Eaton's Hill January 9

The Tivoli February 8

Adding Value

The Band

Find artists like my favourite band

The Other Band

The New Band The Band that is better than The Band

The Other Band The Band that is better than The Band

Find gigs by my favourite band

And gigs by artists *like* my favourite band

The Band Eaton's Hill January 9

The Band The Tivoli February 8 The Other
Band
Eaton's Hill
June 23

The New Band The Tivoli November 7

The New Band

The Band

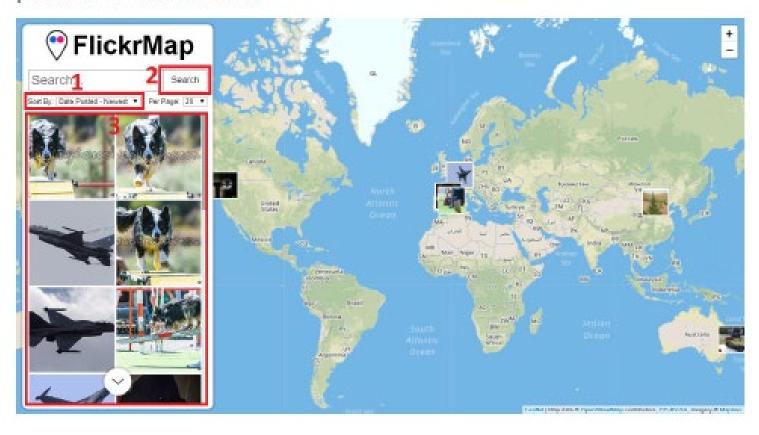
Example – FlickrMap (Jacob Marks)

- Flickr photos
- Leaflet interactive maps
- Google Cloud Vision API labelling images

Example: FlickrMap

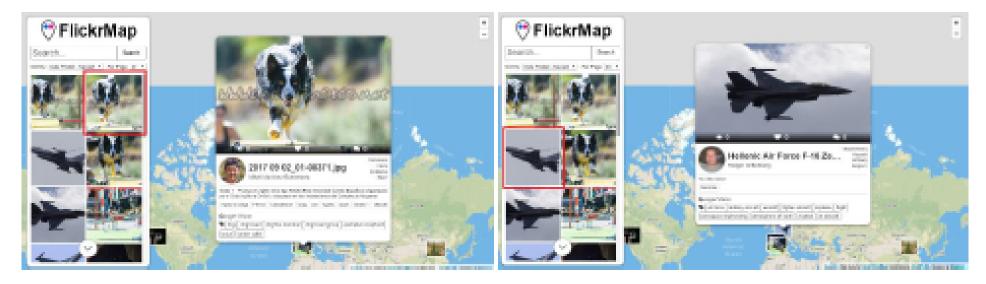
As a user, I want to search for recent photos, so that I can see what's happening around the world.

This user navigates to the index page of FlickrMap, with the intent to search for recent images they set the *Sort By* field to *Date Posted: Newest*, and then clicks on the *Search* button. They are then presented with the below results.



Example: FlickrMap

The user takes a closer look at two images by clicking on the results in the sidebar (shown below) and sees that there was a recent dog agility competition in Spain, and an F-16 flight demo in Belgium!



This use case utilises the follow services: Flickr API, Leaflet.