2020

<student name/s>

<student number/s>

9/30/2020

<your application name>



Replace image with one with some relevance to your application here

CAB432

<assignment number>

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*This template is similar to the one provided for assignment 1. It is not compulsory to use it, but it will save a lot of effort if you do. You should assume that black text in italics is there as guidance and you should read it, follow the instructions and then delete it when you have entered your own text. Some examples are not italicized, but should obviously be replaced by your own material.*

*The report should be around 10-15 pages including screenshots, but this is a guide only – we will not be enforcing a page limit or marking you down for submitting something with 16 pages instead. But be sensible, we really don’t want something that is 25 pages or more. Please note there are examples of previous students’ work in this template & examples from Google searches. They are here to give you ideas on what you can do.* ***We do not guarantee that they are appropriate for your project.***  *You must do your own research and produce your own diagrams.*

## Introduction

### Purpose & description

*This is written in a high-level professional tone. Tell is in about a paragraph or so what the app is supposed to do. Explain to us the need for your app and how it provides something that is novel. If there is something especially amazing about your app, tell us briefly what to look for. At this point you can show 1-2 basic screenshots of your application to illustrate the approach, but leave the more detailed screenshotting to the use cases below.*

### Services used

*First, let us remind you that there is no specific requirement on the number of services needed for Assignment 2. This is different from Assignment 1.*

*Here you should provide an overview of the API endpoints used and the services they are providing – data sources? Analysis? Here we really do just want a link and a brief description of the API and the services it provides. So, if I used something like Twitter, I would go to their API docs, and I would include something like the first entry below, and you should repeat this for the others used.*

#### Twitter Standard Search API (v.1.1)

Returns a collection of relevant Tweets matching a specified query – may also be filtered based on popularity or geocoding [and whatever other obvious details we might decide to include]

Endpoint: https://api.twitter.com/1.1/search/tweets.json

Docs: <https://developer.twitter.com/en/docs/twitter-api/v1/tweets/search/api-reference/get-search-tweets>

#### API 2

*More here…*

#### API n

*And similarly here…*

## Use cases

*Once again, there is no set number of use cases required, but the application will generally need at least one or two good choices as otherwise you won’t be able to generate any decent load. The basic format is provided below, and you should fill in the role and then the action and the good result that follows, just as you did in Assignment 1. Underneath the formal statement of the user story, you can then tell us how you have implemented this service – a high level description talking about services that have been used and how these relate to the scaling and persistence of the application. You should then use screenshots to illustrate the process*

#### US 1

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#### US 2

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## Technical breakdown

*In this report – which covers the group components of the assignment - there should be some coverage of the architecture and the basic operation of the system. Some deeper analysis is now left to the individual report – please read that template and guide for details.*

### Architecture

*Explain how your system operates, making it clear how data flows around the system through requests and responses, and the appearance of scaling and persistence within the architecture. In this report it is not necessary to discuss in detail the effect of these choices. Here we just want you to document the architecture and to tell us how it works.*

*Your principal helper here will be one or more architecture diagrams – which we will consider in some more detail below. However, you may show us screen grabs of code if that makes your points clearer. Tell us anything you think we need to know about how you have structured the application and made it work, but there also a section below to describe problems. If you have used particular libraries, then you should give us a brief overview of their use in this application.*

*A number of example architecture diagrams are provided below. Many students use diagram generators such as the tools at* [*https://cloudcraft.co/*](https://cloudcraft.co/)*. For assignment 2, this is the most important diagram used to document your approach. The ‘network diagrams’ below show some more complicated alternatives. Only the architecture diagram is compulsory. Please consider the others if they help you, and ignore them if they do not. Obviously you should delete all of the examples and include only diagrams which you have created to explain your application.*

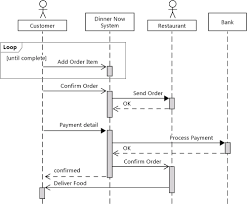
#### Context diagram

Diagram

Description automatically generated

#### Sequence Diagram

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGRlbmJpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NQAAkpIAAgAAAAM3NQAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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#### Process flow Diagram

Diagram

Description automatically generated

Diagram

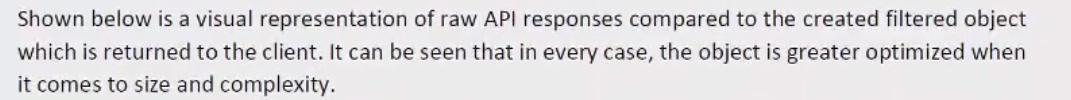
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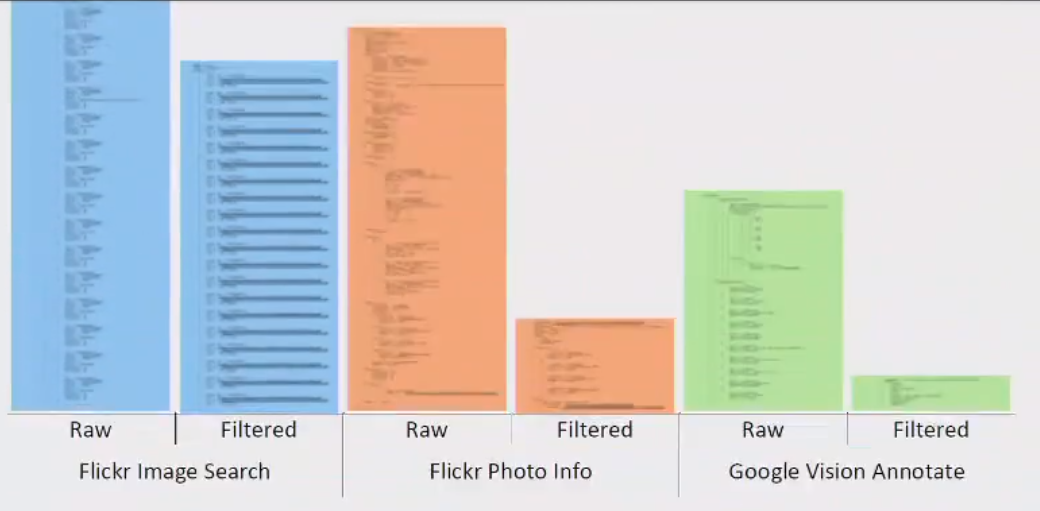
#### Client / server demarcation of responsibilities

*Explain to us what is doing what & where. Refer to the architecture diagram and any others that you find appropriate. This is particularly effective if you support your comments with well-chosen code fragments. These should be short and focused and you should give us any context that we need to work with them.*

#### Response filtering / data object correlation

*Show us how you manipulated the data. The same comments apply about referring to the diagrams and supporting your work with code fragments as appropriate. We provide an example below of how to show this diagramatically. Please note that this example is quite specific to the system being explained. Yours might have an entirely different look, but do a similar job. This section will vary markedly according to the application and may not make much sense for some custom applications such as rendering.*





*You could instead use a data relationship diagram:*

### Scaling and Performance

*This is a crucial aspect of the report, and you should use this section to document the approach taken to scaling – the nature of the application load, how it was varied and how the scaling infrastructure responded. You should refer to the architectural diagram above or reproduce the relevant aspects here. You should include screenshots of CPU, network or queuing metrics as observed on the cloud services dashboard, together with screenshots of your settings and the scaling pool instance creation and destruction. We expect that your work here will demonstrate successful scale out and scale in as required in the assignment specification. The screen shots that you use here will also very likely be re-purposed as part of the slide deck for the demo.*

*An example scaling image is shown below, and we would normally expect to see this sort of image and some evidence of your group settings. Note the instance count on the left hand axis. As noted, many alternatives are possible.*



### Test plan

*Manual testing is fine and our expectations are in line with the example grid below. You can show the results through a screen shot and point us to these from the table.*

*Your tests should include*

* *Positive outcome cases*
* *Negative outcome cases (error scenarios)*
* *Edge cases*
* *Non-functional cases*

*Note that the grid below is unrelated to this application.*



*As they are common in industry you could define your Acceptance Criteria as GWT statements. This is not compulsory, but see:* [*https://www.agilealliance.org/glossary/gwt/*](https://www.agilealliance.org/glossary/gwt/)*. And here is an example:*



Difficulties / Exclusions / unresolved & persistent errors /

*In this section, you should explain anything that caused you problems and how you overcame those problems. Tell us if there was any issue that prevented you completing the assignment to specification. Tell us about any assumptions or compromises that you have made. Those who worked with an API like Spotify, which presented particular concerns, should discuss the compromises here, and this is also where you can tell us about problems with API keys and responses.*

*More generally, you might consider:*

* *Your major roadblocks and how you resolved them.*
* *Any functionality you didn’t or couldn’t finish*
* *Are there any differences between your brief and what you delivered? If so, explain why.*
* *Are there any outstanding bugs?*

## Extensions (Optional)

*In this section, you can tell us if you wish to how you might extend your app and make it better. This is an opportunity to tell us about good ideas that you had that you didn’t have time to tell us about.*

## User guide

*Tell us how to use your application. You may re-use some of the screenshots from the use case descriptions, but this is more about how to use the app. As long as we can find what we need to do to use your application, this need not be all that long.*

*But either way, screenshots are your friend.*

## References

*Use a standard approach to referencing – see the guidance at* [*https://www.citewrite.qut.edu.au/cite/*](https://www.citewrite.qut.edu.au/cite/)*.*

## Appendices

*Stuff you want to include, but is too long or too complex to include in the main report text. The full Docker file, some longer excerpt from API docs. Whatever helps.*

*[Our thanks to those students who allowed us to use their work in the examples presented above.]*