



DEVOPS EASY LEARNING

Class review
S5GROUP5
BrainCells
(DOCKER/AWS/yaml
/microservice)

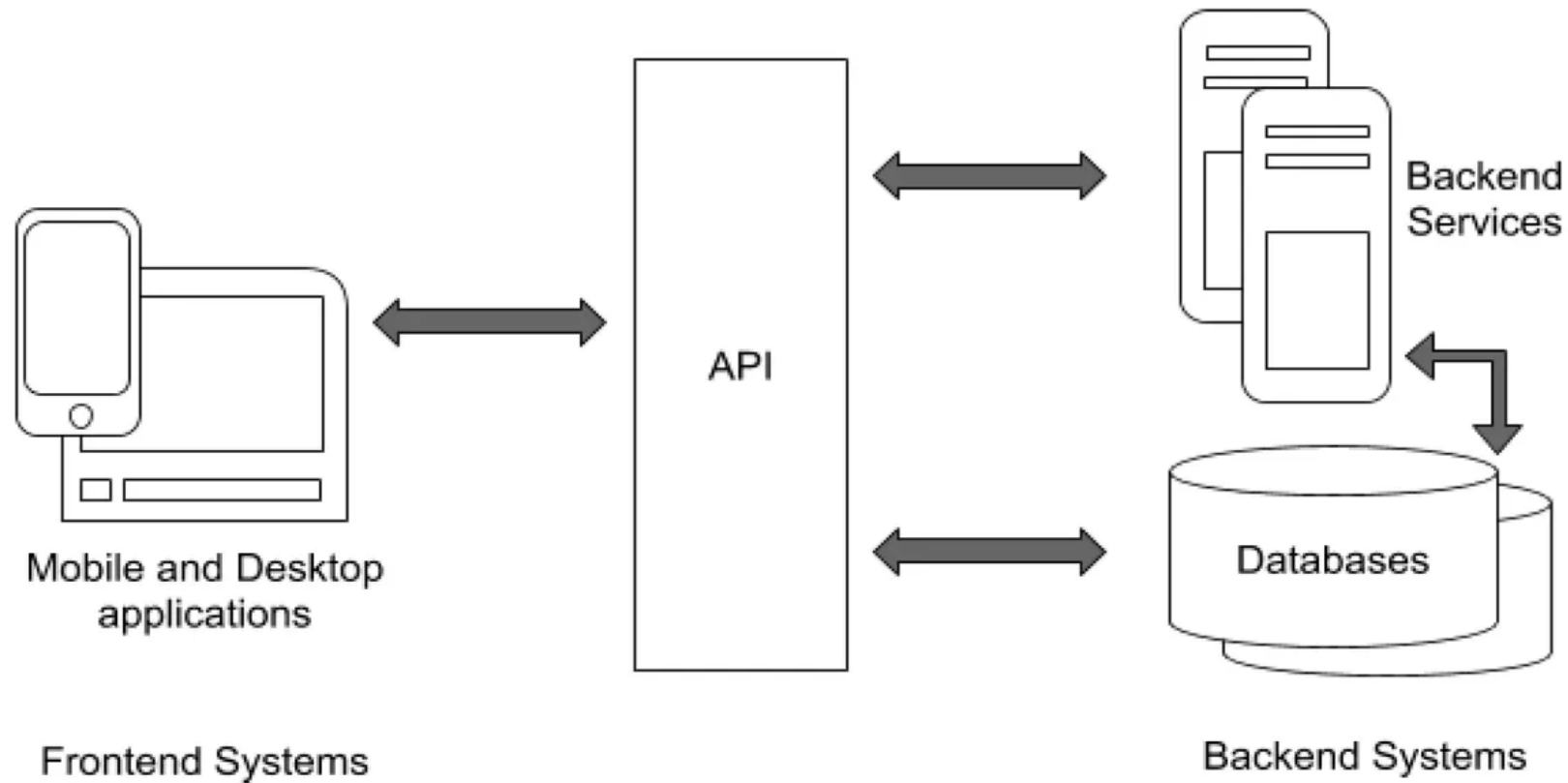
QUESTIONS

- Give me a brief definition of what an application is? is a software program that perform one or multiple tasks to satisfy the need of ends users.
- Can you please explain the type of application you know with an example ? stateless application read only app such as news website and the stateful application such as amazon and whatsapp
- What is a microservice? is a combination of multiple services, each service has a specific function and interact with other services to form an application to produce a big behavior.
- Explain the following:
 - **Front-end** it is the user interface, it is the part of the application that the end user can interact with.
 - **Back-end** is the part of the application that end users cannot see, it is run in the background and store data and it is managed by IT engineers.
 - **API** it is the application programming interface; it used to send and translate the request between microservices.
 - **EndPoint** refers to the URL, is the request that we made to the API. when we make a API call, it,s trigger the endpoint that we will produce a behavior
 - **Single point of failure**



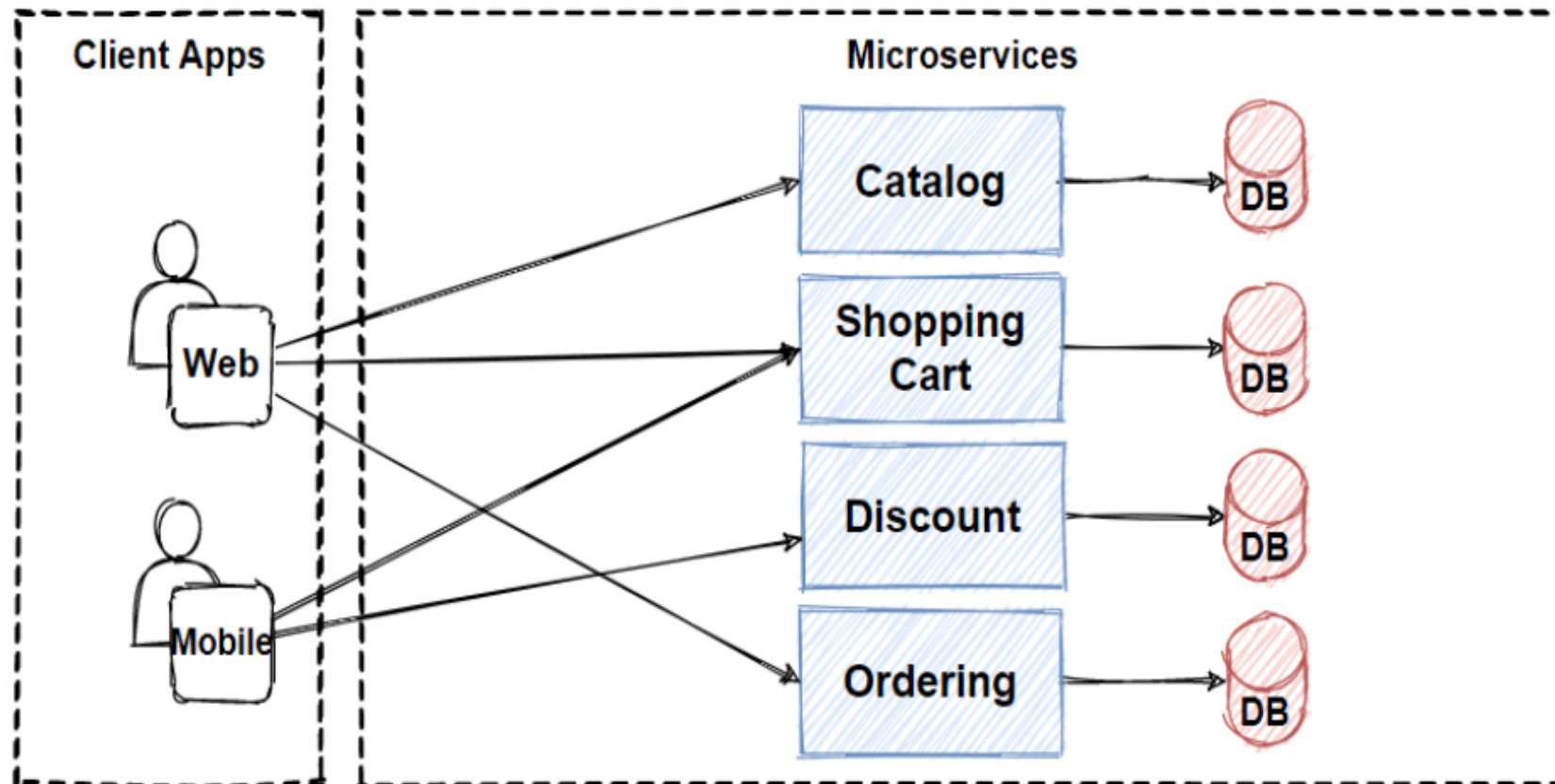
QUESTIONS

- Use your knowledge on front-end, API and back-end to
 - explain the following flow diagram?
 - you have the front-end , Api and back-end which of the 3 container would you launch first and why?



QUESTIONS

- Look at the following architecture and explain how the problem of **single point of failure** is being resolved?



YAML

1. Can you please Transform this text in YAML FORMAT:

- your name is [write your own name], at home you discovered that there is no more fruit and vegetable so you decided to go to the market and buy you some fruit and vegetable [write down 3 fruit and vegetable of your choice]
- Arriving at home you decided to read 2 books : the name of the first book is **Naruto**, the author is **Masashi Kishimoto** and the book was published in the year **1999**. The second book name is **One piece**, the author is **Eiichiro Oda**, and the book was published in the year **1997**.
- After reading those amazing book you decided now to jump into movies;
 - The first moving you look, is name **Avengers End game**, the company that produced the film is called **Marvel studios**, and the film was released in **2019**. The film is **3h21min**.
 - The second moving you look, is name **Fifty shades of grey**, the company that produced the film is called **Focus feature, universal production and Trigger street production**. The film was released in **2015**. The film is **2h5min**.



HANDS ON AWS/DOCKER

You have been working for 3 years as a devOps engineer at EK_TECK SOFTWARE SOLUTION, you successfully deployed an application that was written in javascript the developer did some modification on the application and were asked to deploy the new version of the app using the dockerfile provided by the developer so as to suit the changes.

- You can have the developer dockerfile here;
 - <https://group5-braincells.s3.amazonaws.com/Dockerfile>
 - The application is listening on port 3000
- Deployed the new version of the application using the provided dockerfile.
- Push the image to dockerhub



FEEL FREE TO DELETE WHEN YOU'RE DONE

