# Memo -01

Project Name: Challenger

**Application name**: Challenger

**Due date:** Feb 20 - 2022 at 4PM CST

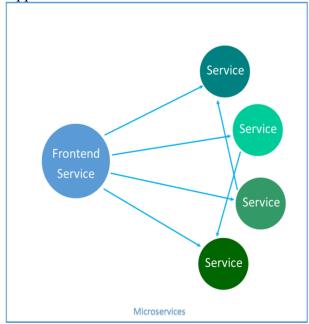
Requestor: Development team

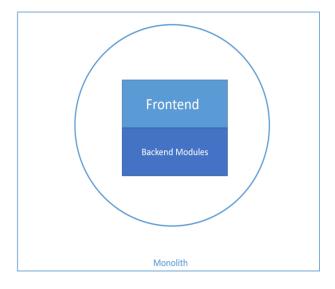
Lead: Adele Noumbo

**Execution team:** Devops

Lead: Kelly Donkeng

Application structure



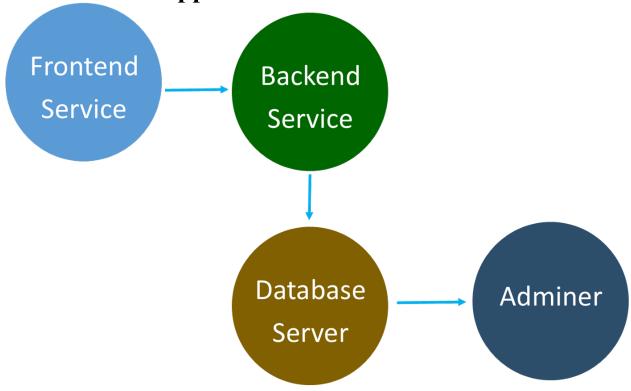


# **Application major parts**

- Frontend Service
- Backend Service
- PostreSQL Database Service
- Adminer Database Admin Service

PS: Each of the above will be a separate docker containers

# How does the application works



## To get the code perform the following action (command)

# git clone <a href="https://github.com/devopseasylearning/class-project-microser-service-docker-compose.git">https://github.com/devopseasylearning/class-project-microser-service-docker-compose.git</a>

# cd class-project-microser-service-docker-compose

# Description:

# FRONTEND &backend ----- Dockerfile

- a- The base image for the application should be python:3.6-slim
- b- The default directory is /app
- c- The contend of frontend should be copy into /app directory inside the container
- d- The application listen to port 5000 inside the container
- e- The following command should be run inside the dockerfile

## \$ pip3 install -r requirements.txt

f- The application start with the following command\$ python3 app.py

#### **DATABASE**

This application best work with **postgres** with the following information

a- Username: johnb- Password: examplec- Database: endgame

d- Persist data on dbvolume directory

### **ADMINER**

Base image: adminer
Expose on 8080
Map port 9090
Links to the database
Depend on database

#### **BACKEND:**

a- Should be link to the database

b- Should not start if the database is not in running state

c- Need the following environment variable set

DB\_user: johnDB\_PASS: exampleDB\_HOST: db

### **FRONTEND:**

a- Should be link to the backend

b- Depend on backend