# MID EXAM PROJECT REPORT DISTRIBUTED PARALLEL SYSTEM

Website using docker

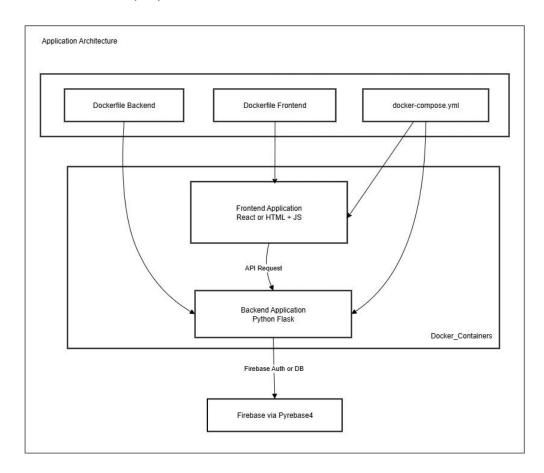
Group 3 – Information Technology Class 3

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# Introduction/ Background

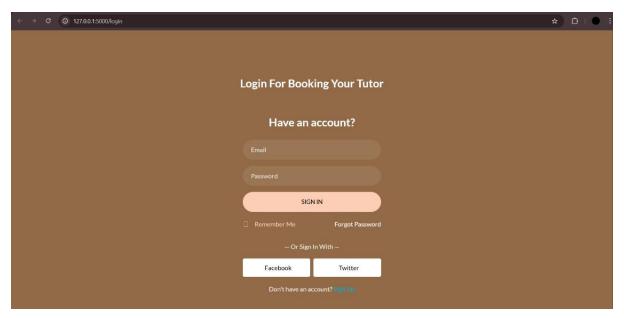
we created a website called your tutor, where this website is a place where people who want to find private tutors in certain fields online, and they can negotiate about the online and offline teaching system between the tutor and the client. we use docker, python as the backend, css and html as frontend, and firebase authentication.

# **Aplication Architecture (dia)**



## **Output:**

User have to login first if they already have an account, but if they haven't, they have to sign up fisrt and then their account will registered in firebase. Frontend send request to backend and the backed uses firebase to validate. Respons goes back to frontend.



# App.py:

When we run python app.py, it will give us the web link

```
PS C:\Users\Putri D\Downloads\GENO-Company-nandadinam (2)\GENO-Company-nandadinam\backend> python app.py
C:\Users\Putri D\Downloads\GENO-Company-nandadinam (2)\GENO-Company-nandadinam\backend> python app.py
C:\Users\Putri D\Opppota\Roaming\Python\Python\Bython333\site-packages\gcloud\_init__py:17: User\Rarning: pkg resources is deprecated as an API. See https://setuptools.pypa.io/en/late
t/pkg resources.html. The pkg_resources package is slated for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.
* Serving Flask app 'app'
* Debug mode: on

* Appl of the property of the package of the packa

    Decogn mode: on
    WANNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
    Running on http://127.0.0.1:5000

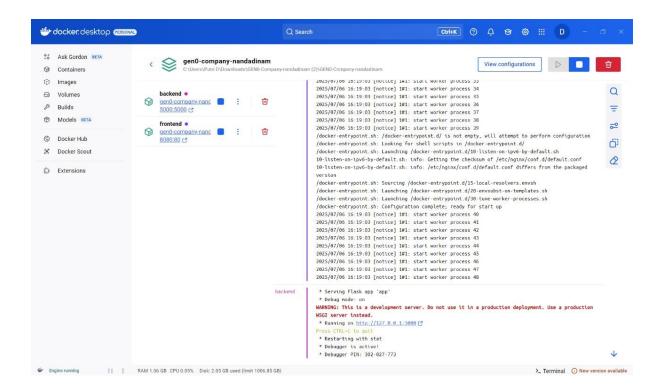
                 Running on http://lz/v.v.v.l:9000
Ses CTRL+C to quit
Restarting with stat
Users\verturi o\verturi o\verturio\verturo\python\python\python313\site-packages\gcloud\__init__.py:17: UserWarning: pkg_resources is deprecated as an API. See https://setuptools.pypa.io/en/late
kg_resources.html. The pkg_resources package is slated for removal as early as 2025-11-30. Refrain from using this package or pin to Setuptools<81.

Tom pkg_resources import get_distribution
```

#### Docker:

This is what it looks like in the docker





## Backend docker file

```
# 1. Install dependencies dulu

RUN apt-get update && apt-get install -y \

gcc \
libffi-dev \
build-essential \
&& rm -rf /var/lib/apt/lists/*

# 2. Siapkan working dir dan install Python lib
WORKDIR /app
COPY requirements.txt .

RUN pip install --no-cache-dir -r requirements.txt

# 3. Copy source code
COPY . /app

EXPOSE 5000
CMD ["python", "app.py"]
```

#### Frontend docker file

```
1 FROM nginx:alpine
2
3 COPY default.conf /etc/nginx/conf.d/default.conf
4 COPY . /usr/share/nginx/html
5
```

## **Deafault.conf** frontend

```
1 server {
2    listen 80;
3    server_name localhost;
4
5    location / {
6       root /usr/share/nginx/html;
7       index index.html;
8       try_files $uri $uri/ =404;
9    }
10 }
```

# **Docker compose yml**

```
docker-compose.yml
     ▶Run All Services
     services:
         build:
          context: ./backend
          container name: gen@-backend
          ports:
          - "5000:5000"
          environment:
           - FLASK ENV=development
          restart: unless-stopped
        ▷ Run Service
        frontend:
         build:
          context: ./frontend
          container name: gen@-frontend
          ports:
          - "8080:80"
           - ./frontend:/usr/share/nginx/html
          restart: unless-stopped
```