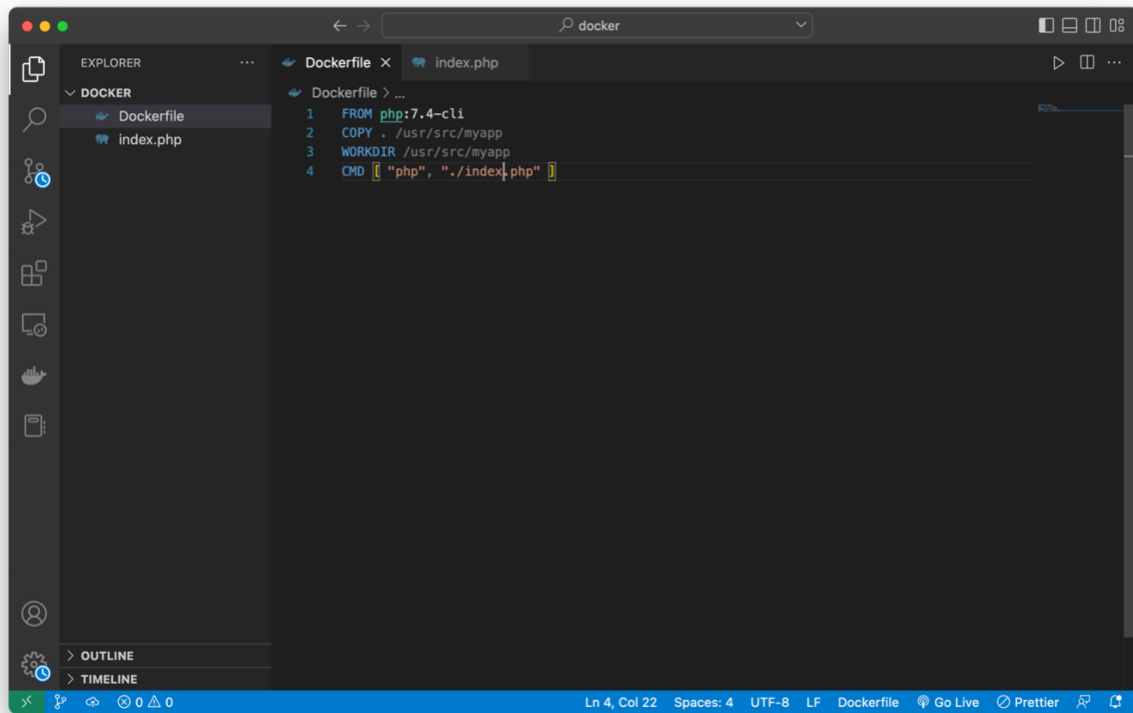
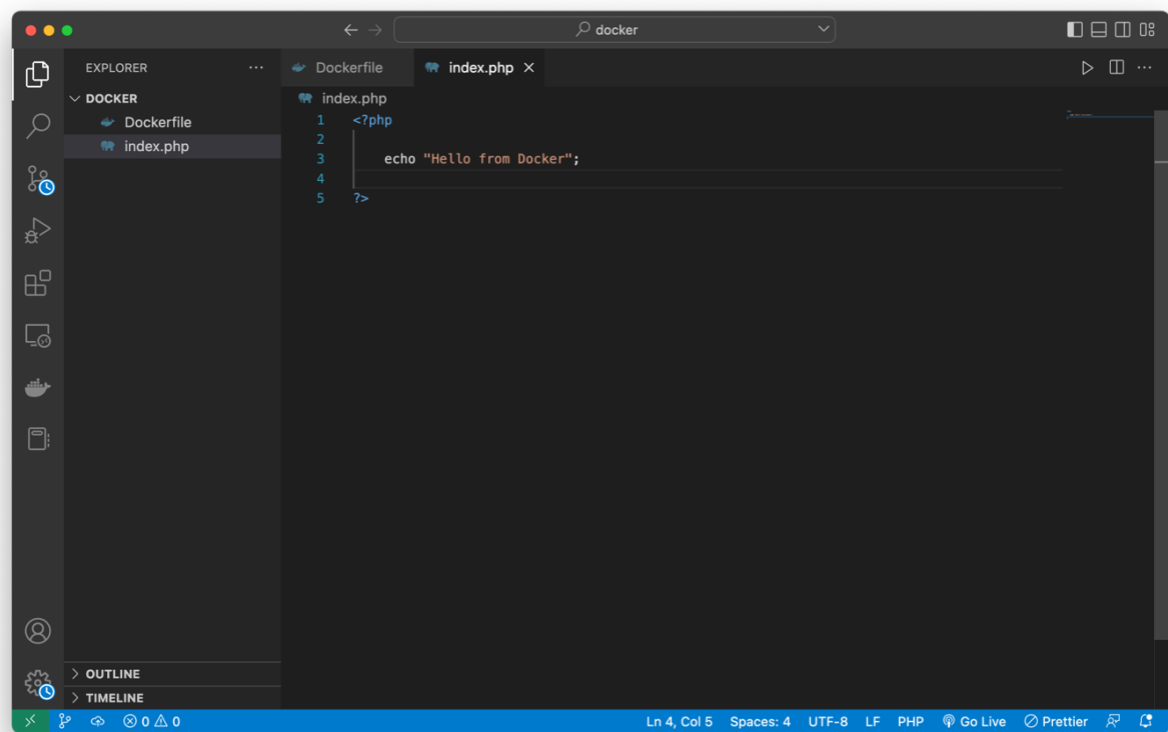


- **Docker file**

- A file that contains instructions for building a Docker image



- **Application Code**



- **docker build -t my-php-app .**

- docker build command in Docker is used to build a Docker image from a Dockerfile.
- The -t flag specifies the name of the image
- The (.) specifies the context of the build, which is the location of the Dockerfile and the source files for the image

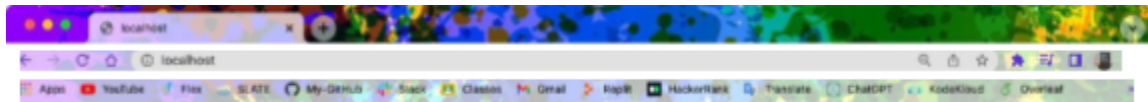
```
docker build -t my-php-app .
```

```
[+] Building 335.0s (8/8) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 132B 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/php:7.4-cli 6.3s
=> [internal] load build context 0.1s
=> => transferring context: 6.46kB 0.0s
=> [1/3] FROM docker.io/library/php:7.4-cli@sha256:620a6b9f4d4feef2210 327.3s
=> => resolve docker.io/library/php:7.4-cli@sha256:620a6b9f4d4feef221002 0.0s
=> => sha256:691f9ae2a3639de11d95f507bc29c723a7f27b79bdf 2.20kB / 2.20kB 0.0s
=> => sha256:7bbbb12d14986e855e5213c6b349e97e0f2e3da8253 9.64kB / 9.64kB 0.0s
=> => sha256:a603fa5e3b4127f210503aaa6189abf6286ee5a7 31.41MB / 31.41MB 88.8s
=> => sha256:620a6b9f4d4feef2210026172570465e9d0c1de7976 1.86kB / 1.86kB 0.0s
=> => sha256:c428f1a494230852524a2a5957cc5199c36c8b403305e0e 226B / 226B 2.6s
=> => sha256:156740b07ef8a632f9f7bea4e57e4ee5541ade3 91.63MB / 91.63MB 319.5s
=> => sha256:fb5a4c8af82f00730b7427e47bda7f76cea2e2b9aea4217 270B / 270B 3.1s
=> => sha256:972155ae644b037435eddf206152975f6fd3eae 10.74MB / 10.74MB 132.0s
=> => sha256:a8e3b94fe6c130216f4567f987d8a71cfebc44bb098f9f 491B / 491B 89.9s
=> => extracting sha256:a603fa5e3b4127f210503aaa6189abf6286ee5a73deeaab4 2.3s
=> => sha256:c770041054676af58c6ee8deb45af5a2bb7007d 32.62MB / 32.62MB 280.9s
=> => extracting sha256:c428f1a494230852524a2a5957cc5199c36c8b403305e0e8 0.0s
=> => sha256:d3e4898bfd255fa3e37a5e19cdc4c75818f26476d 2.45kB / 2.45kB 132.9s
=> => sha256:30f377be467858ef94e5cbc0916b4621d07e457b0aedb 244B / 244B 133.4s
=> => extracting sha256:156740b07ef8a632f9f7bea4e57e4ee5541ade376adf9169 5.3s
=> => extracting sha256:fb5a4c8af82f00730b7427e47bda7f76cea2e2b9aea42175 0.0s
=> => extracting sha256:972155ae644b037435eddf206152975f6fd3eaeblddb632 0.2s
=> => extracting sha256:a8e3b94fe6c130216f4567f987d8a71cfebc44bb098f9f1d 0.0s
=> => extracting sha256:c770041054676af58c6ee8deb45af5a2bb7007d1743f280f 1.6s
=> => extracting sha256:d3e4898bfd255fa3e37a5e19cdc4c75818f26476d9160f70 0.0s
=> => extracting sha256:30f377be467858ef94e5cbc0916b4621d07e457b0aedb00b 0.0s
=> [2/3] COPY . /usr/src/myapp 1.1s
=> [3/3] WORKDIR /usr/src/myapp 0.0s
```

- **docker run -d -p 80:80 --name my-apache-php-app**
 - This command is used to create and run a container from image

```
docker run -d -p 80:80 --name my-apache-php-app -v "$PWD":/var/www/html php:7.2
```

```
-apache
Unable to find image 'php:7.2-apache' locally
7.2-apache: Pulling from library/php
6ec7b7d162b2: Pull complete
db606474d60c: Pull complete
afb30f0cd8e0: Pull complete
3bb2e8051594: Pull complete
4c761b44e2cc: Pull complete
c2199db96575: Pull complete
1b9a9381eea8: Pull complete
fd07bbc59d34: Pull complete
72b73ab27698: Pull complete
983308f4f0d6: Pull complete
6c13f026e6da: Pull complete
e5e6cd163689: Pull complete
5c5516e56582: Pull complete
154729f6ba86: Pull complete
Digest: sha256:4dc0f0115acf8c2f0df69295ae822e49f5ad5fe849725847f15aa0e5802b55f8
Status: Downloaded newer image for php:7.2-apache
d64baadd353d62e5e3d1753d4a746a80b62a888ec47d8ca0aabe1f6e962588e
```

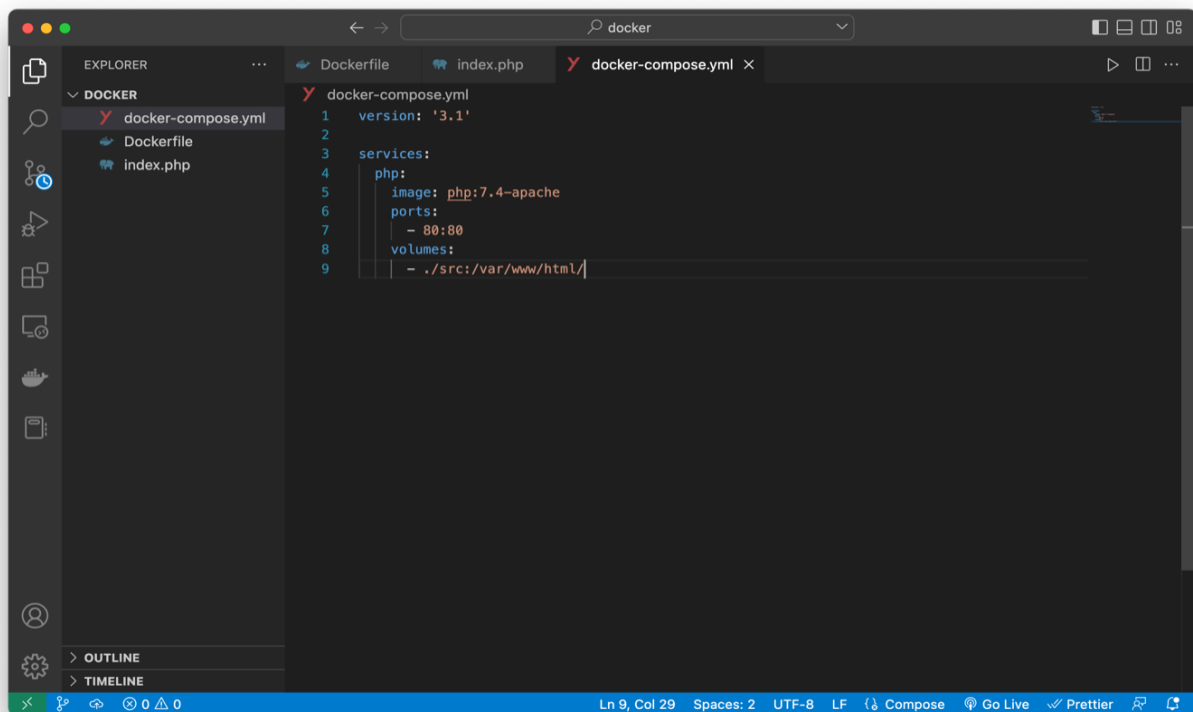


HeLo from Docker

```
Unable to find image 'php:7.2-apache' locally
7.2-apache: Pulling from library/php
6ec7b7d162b2: Pull complete
db606474d60c: Pull complete
afb30f0cd8e0: Pull complete
3bb2e8051594: Pull complete
4c761b44e2cc: Pull complete
c2199db96575: Pull complete
1b9a9381eea8: Pull complete
fd07bbc59d34: Pull complete
72b73ab27698: Pull complete
983308f4f0d6: Pull complete
6c13f026e6da: Pull complete
e5e6cd163689: Pull complete
5c5516e56582: Pull complete
154729f6ba86: Pull complete
Digest: sha256:4dc0f0115acf8c2f0df69295ae822e49f5ad5fe849725847f15aa0e5802b55f8
Status: Downloaded newer image for php:7.2-apache
d64baadd353d62e5e3d1753d4a746a80b62a888ec47d8ca0aabeeb1f6e962588e
```

- **docker-compose.yml file**

- The docker-compose file is used for defining and running multi-container Docker applications.
- A docker-compose file is a configuration file that specifies the services that make up an application, the dependencies between them, and how they should be deployed.

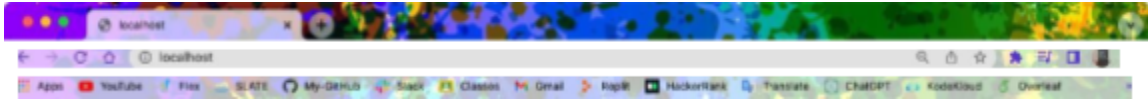


- ***docker-compose up -d***

```
docker stop $(docker ps -a -q)
```

```
d64baadd353d
```

```
docker-compose up -d
```



HeLo from Docker Some changes!!! Hello again!

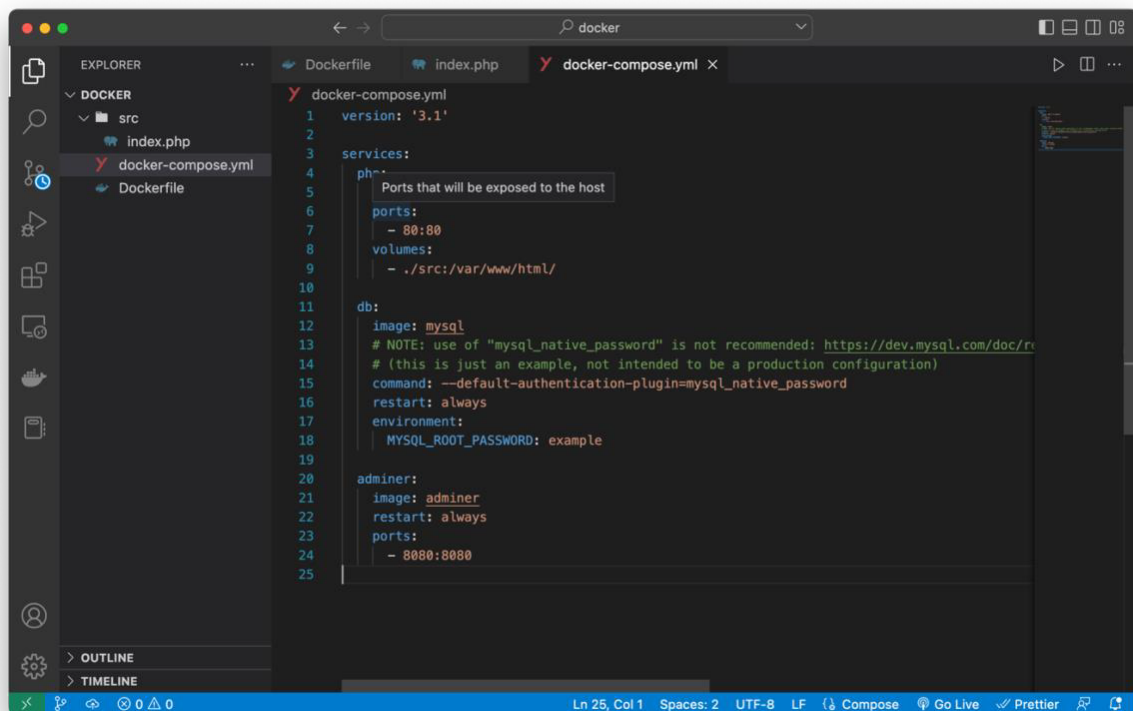
- **Adding MySQL service in docker-compose file:**

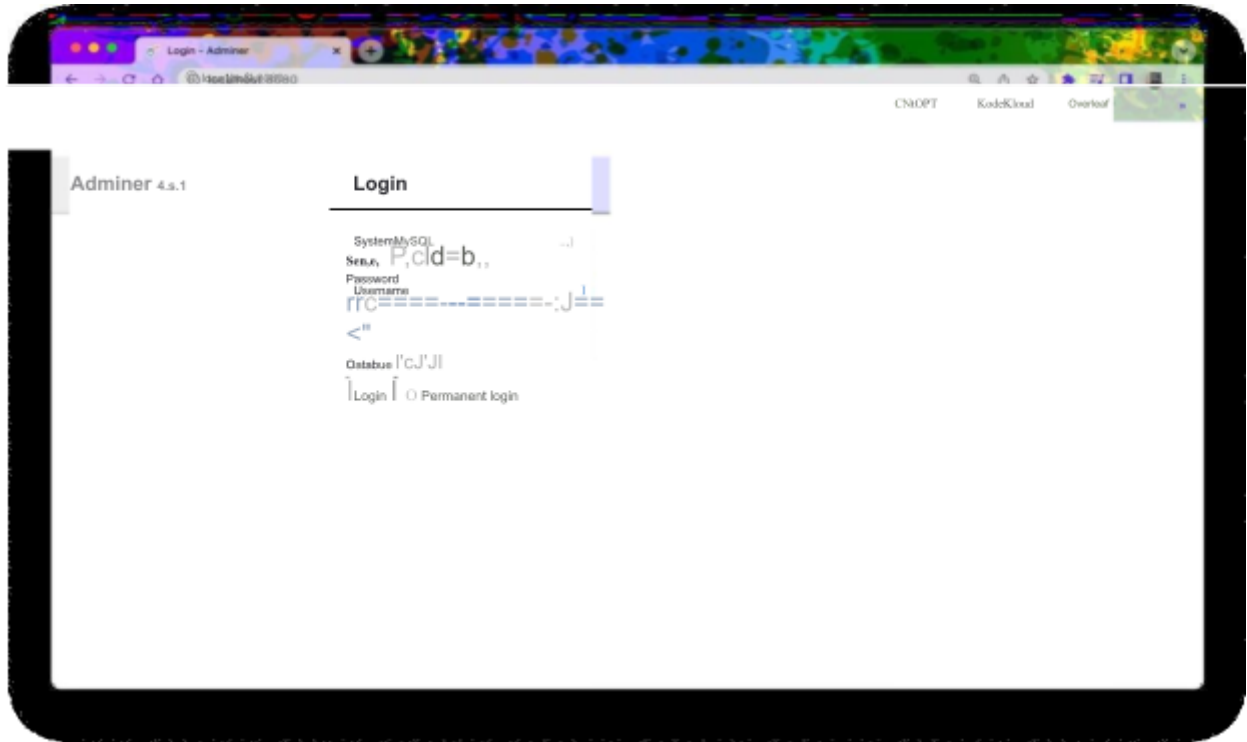
```
docker stop $(docker ps -a -q)
```

```
d64baadd353d
```

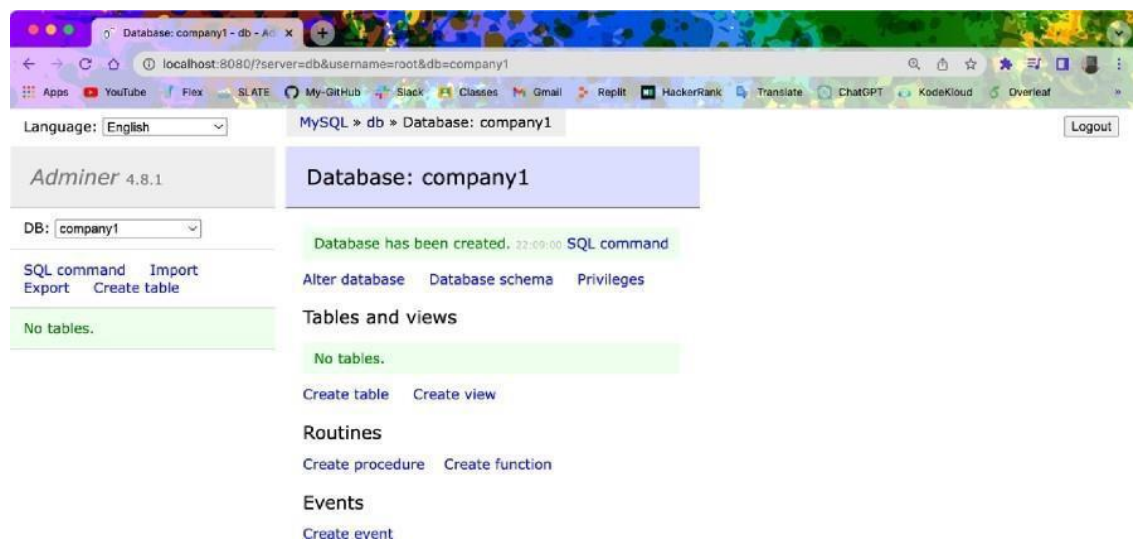
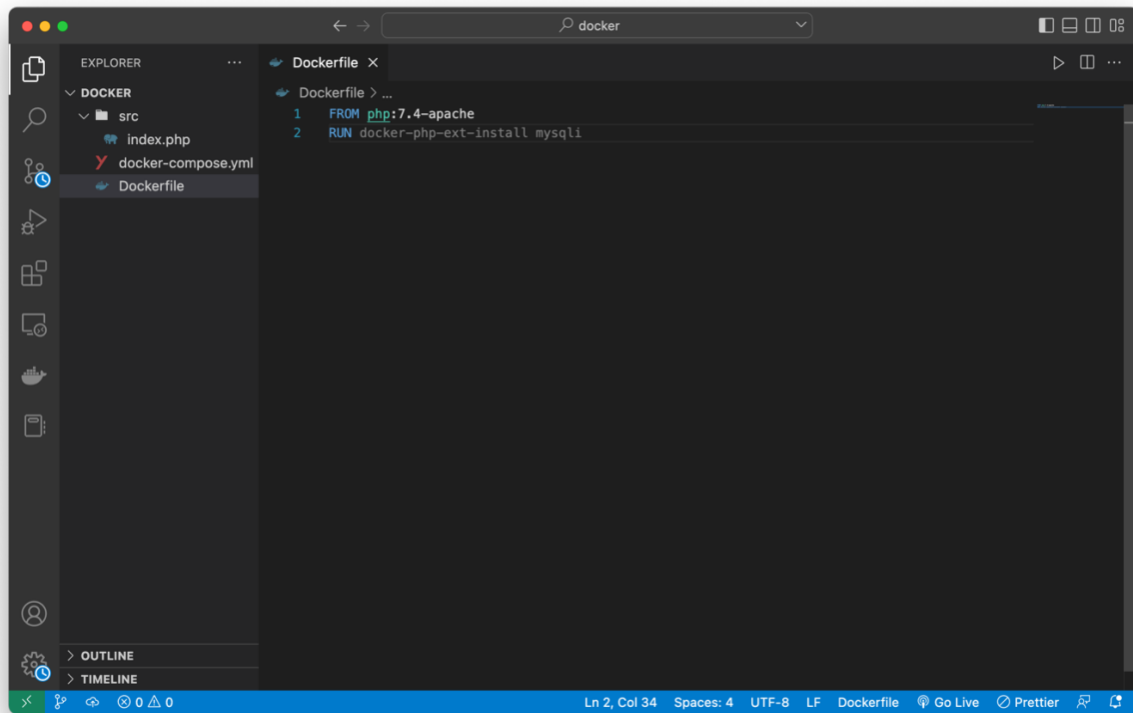
```
docker-compose up -d
```

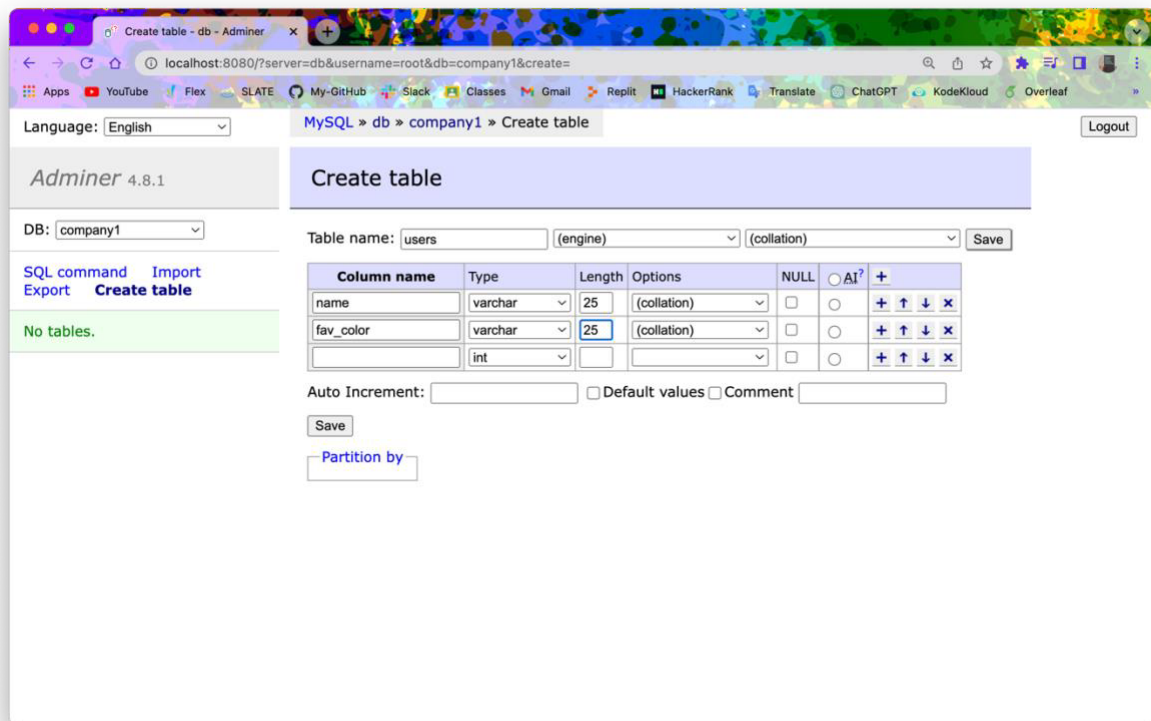
```
[+] Running 14/14
  # php Pulled                                         112.1s
  # a603fa5e3b41 Already exists                       0.0s
  # c428f1a49423 Already exists                       0.0s
  # 156740b07ef8 Already exists                       0.0s
  # fb5a4c8af82f Already exists                       0.0s
  # 25f85b498fd5 Pull complete                       49.8s
  # 9b233e420ac7 Pull complete                       49.8s
  # fe42347c4ecf Pull complete                       49.9s
  # d14eb2ed1e17 Pull complete                       91.5s
  # 66d98f73acb6 Pull complete                       91.8s
  # d2c43c5efbc8 Pull complete                       106.9s
  # ab590b48ea47 Pull complete                       107.1s
  # 80692ae2d067 Pull complete                       107.3s
  # 05e465aaa99a Pull complete                       107.4s
[+] Running 2/2
  # Network docker_default Created                    0.2s
  # Container docker-php-1 Started                     1.5s
```



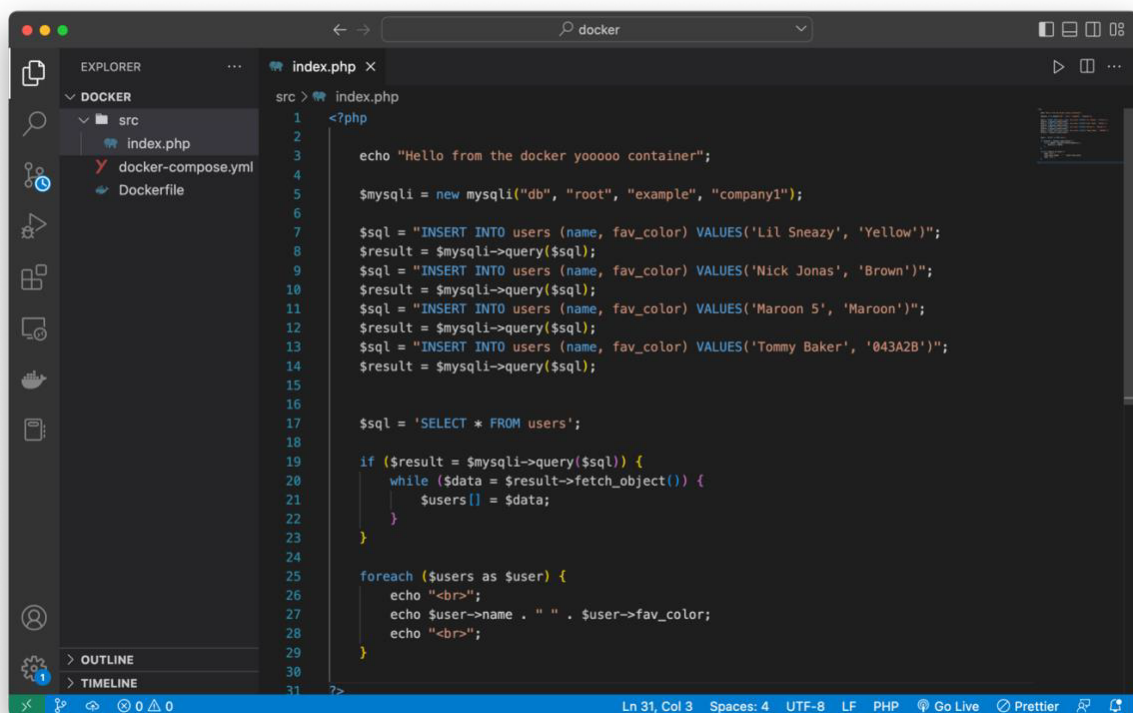


- *creating Apache docker file*





● Final Application Code



● *Final Output*

