Lab Exercise 2- Docker-Compose file

Objective:

Set up a WordPress environment using Docker Compose, including a MySQL database as the backend.

Prerequisites:

• Docker and Docker Compose installed on your system.

Step 1: Create a docker-compose.yml File

- 1. In the project directory, create a file named docker-compose.yml.
- 2. Add the following content to docker-compose.yml:

```
version: '3.8'
services:
wordpress:
 image: wordpress:latest
 ports:
  - "8080:80"
 environment:
  WORDPRESS DB HOST: db:3306
  WORDPRESS DB USER: wp user
  WORDPRESS DB PASSWORD: wp pass
  WORDPRESS DB NAME: wp database
 depends_on:
  - db
 db:
 image: mysql:5.7
 environment:
  MYSQL ROOT PASSWORD: root password
  MYSQL_DATABASE: wp_database
  MYSQL_USER: wp_user
  MYSQL_PASSWORD: wp_pass
```

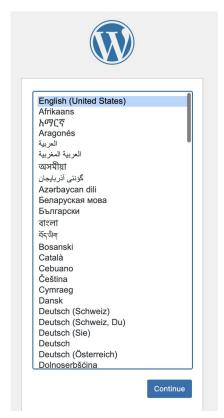
Step 2: Start the Containers

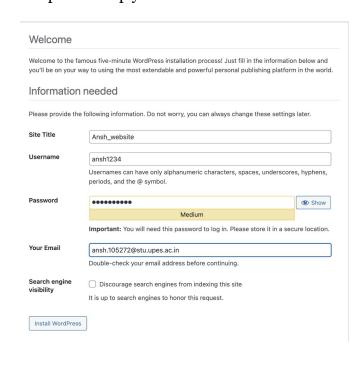
1. Run the following command to start the containers:

2. Docker Compose will download the necessary images (WordPress and MySQL) and start both services.

Step 4: Access WordPress

- 1. Open your web browser and go to http://localhost:8080.
- 2. Follow the WordPress installation steps to set up your site.







Step 5: Stop and Remove Containers

To stop the containers and remove the associated resources, run:

Explanation of docker-compose.yml:

- wordpress: Sets up the WordPress container, mapping port 80 inside the container to port 8080 on your local machine.
- **db**: Sets up the MySQL container with a volume (db_data) for persistent storage.

Additional Notes:

- Modify the environment variables as needed for different configurations.
- To view logs, use docker-compose logs -f.

This setup allows you to quickly start a WordPress site locally and experiment with configurations.