# Docker Desktop Setup

## Docker Desktop Pre-requisites

1. Enable WSL 2 in windows 10 / 11
   1. Open PowerShell
   2. wsl --install
   3. restart the system
2. Docker Desktop Setup
   1. Download Docker Desktop for Windows from the Docker website. (First register in docker website with your personal email)
   2. Once the download is complete, run the installer and follow the on-screen instructions.
   3. During the installation process, you will be prompted to choose whether you want to use Windows containers or Linux containers. Select Linux containers, as we are installing Docker for use with the WSL2 distro.
   4. The installer will also prompt you to enable WSL2, if it is not already enabled. Follow the instructions to enable WSL2.
   5. Once the installation is complete, restart the windows.
   6. Launch Docker Desktop from the Start menu.
   7. Docker Desktop will launch and begin setting up the required components. This may take a few minutes.
   8. After the setup is complete, Docker Desktop will be ready to use with your WSL2 distro.
   9. To verify that Docker is working correctly with your WSL2 distro, open a command prompt or terminal window and enter the following command:

docker run hello-world

If Docker is working correctly, you should see output indicating that the hello-world container has been downloaded and run successfully.

# Postgres Setup

1. Open Docker Desktop and make sure it is running.
2. Open a PowerShell terminal or command prompt window and enter the following command to download the PostgreSQL image from Docker Hub:

docker pull postgres

* 1. After the image has been downloaded, enter the following command to start a container using the PostgreSQL image:

docker run --name capstonelegaldb -e POSTGRES\_PASSWORD=kaviraj -p 5432:5432 -d postgres

Please note:

* Name of the docker image as **capstonelegaldb**
* Postgres username is **postgres** (default)
* Password is **kaviraj**
* Port number is **5432** (default)

You may change these values in your local setup.

The next step is to create the database, schema, tables and indexes

1. Download the following .SQL files from Google Drive
   1. CapstoneLegalDBInitialValues.sql
   2. capstonelegalDB.sql
   3. Move them to a folder in your laptop
2. Open a windows terminal window.
3. Go to the directory where you have the .SQL files stored
4. Execute the following commands in the same sequence to create DB, Schema, Tables and initial values
   1. docker exec -it capstonelegaldb psql -U postgres
   2. cat capstonelegalDB.sql | docker exec -i capstonelegaldb psql -U postgres
   3. cat CapstoneLegalDBInitialValues.sql | docker exec -i capstonelegaldb psql -U postgres

# Judge Service Setup

1. Download the capstonelegalJM.zip file and extract it to any folder.
2. Ensure, Java 11+ is installed in your system
3. Import the project to your intellij idea
4. Open the application.properties file under resources folder and docker-compose.yml file under home folder.
5. Open terminal and type ipconfig
   1. This will list all the ip addresses that your machine is associated with.
   2. Note down the IPv4 Address (IP Address) under Eathernet Adapter vEthernet (WSL)
   3. Change the JDBC Source URL in both the files opened in IntelliJ (replace 172.31.112.1 with your ip address.
6. Build the project
7. Once the build is successful do the following to build docker image
   1. On the righthand side of the intellij idea you will find a tab for Maven, click on that
   2. You will find an icon for package.
   3. Double click on that – This will create the jar file for our project

Graphical user interface, application

Description automatically generated

1. Open a powershell and go the directory where the project is extracted.
   1. Run the following commands
   2. docker build -t judge-management-service .
   3. This will create the image
   4. Now type the following command
   5. docker-compose up
   6. This will deploy the image and run in Docker Desktop
   7. Open the Docker Desktop and ensure it is running

# Postman setup

1. Download and install postman client
2. Create a new Collection in Postman as “CapstoneLegalTests”
3. Right click on the “CapstoneLegalTests” and Add Request
4. Type <http://localhost:8080/v1/countries> and choose method as GET
5. Click on “Send” button and
6. You can then test the APIs