**Procedure for Running the Docker container:**

**1. Requirements :**

- Git \*

- Docker-Desktop \*

- Optional: Visual Studio Code (or any code editor)

**2. Create Folder :**

- Open your file explorer and create a new folder with a name of your choice.

**3. Open Terminal :**

- Open a command-line terminal (Command Prompt on Windows or Terminal on Unix-based OS).

**4. Navigate to Folder :**

- Change directory to the folder you created in **step 2**. You can do this by using the `cd` command followed by the path to your folder.

**5. Clone Repository :**

- Run the following command to clone the repository:

```

**git clone -b master https://github.com/chromecruzer/Docker-demo.git**

```

**6. Navigate to Cloned Directory :**

- Change directory to the cloned repository folder (`Docker-demo`):

```

**cd Docker-demo**

```

**7. Build the Container :**

- Ensure that Docker Desktop or Docker Daemon is running.

- Run the following command to build the container:

```

**docker-compose build --no-cache**

```

**8. Start the Container :**

- After the build is successful, start the container by running:

```

**docker-compose up**

```

- This will start the container with two services: `web` and `api`.

**9. Access the Demo App :**

- Once the container is running, open a web browser (Chrome, Edge, Firefox).

- Enter the following address in the browser:

```

[**http://localhost:5000/**](http://localhost:5000/)

**10. Stop the Container :**

- Open a new command-line terminal (Command Prompt on Windows or Terminal on Unix-based OS).

- Navigate to the same directory where the `docker-compose.yml` file is located (the cloned `Docker-demo` folder).

- Use the following command to stop the container and shut down the services gracefully:

```

**docker-compose down**

```

- Wait patiently until the servers shut down gracefully. Avoid using `Ctrl+C`, as it may not work as expected and could lead to unexpected behavior.

- By using `docker-compose down`, the services will be stopped, and any resources allocated to them will be released.

**Note :**

Executing `docker-compose down` from a separate terminal ensures that the process is independent of any ongoing activities in the previous terminal, providing clarity and avoiding any potential confusion or interference. Once the build command is executed there is no need to rebuild again you can Run the container any time in your machine just by using the start command alone.