**DOCKER AND CONTAINERIZATION**

**Docker:**

* Docker is a set of platform as a service products that use OS-level virtualization to deliver software in packages called containers.
* Docker allocates a read-write filesystem to the container, as its final layer.
* This allows a running container to create or modify files and directories in its local filesystem.
* Docker creates a network interface to connect the container to the default network, since you did not specify any networking options.

Step-1: Install docker desktop

Step-2: Create New project: ASP.NET Core Web API

Step-3: Install NuGet package- Microsoft.VisualStudio.Azure.Containers.Tools.Targets

Step-4: In solution explorer, Right click on project-> click on add-> Click on docker support-> windows -> ok

Step-5: In solution explorer, Right click on project-> click on add-> click on Container Orchestrator support-> docker composer-> Ok

Step-6: Search for terminal(developer powershell) , in terminal:

* 1. Check for current docker images: **docker images**
  2. Write: **docker build -t ytdocker:v1 -f ContainerApp/Dockerfile .**
  3. Run docker: **docker run -d -p 8080:8080 ytdocker:v1**
  4. Stop the existing container: **docker stop relaxed\_hofstadter**