**Docker Coures 2024**

Docker is a platform we can containerized our project and the source code for the portability and reliability , in docker we include all dependencies and all environment details in to the docker image ,as well as we make a docker image using the docker file

Docker file contains the all the instructions and commands to use to crate the docker image ,using docker file we build a docker image and after that we need to crate instance using the docker image , we called is as docker container

Docker container is a instance of the docker image and we can run docker image In our local machine, only we can run docker container (we can not run docaker image )

To Build Docker file

Using vs code simply we can crate the file using name as Dockerfile and that’s it ,it does not need any extension

Inside the docker file we need to defile some parameters to cerate the docker image ,Actually we crate those are as layers

A screenshot of a computer program

Description automatically generated#Define base package

FROM node:20-alpine

#Define workflow

WORKFLOW /app

#Copy the Source code in to docker workflow directory

COPY source destination

#command

CMD(“node”,” test.js”)

To crate Docker image

Now we crate the dockerfile add now we want to crate a docker image using that docker file to that we need to cmd command

Doccker build -t name destination

Additional

To check crated docker images cmd “ docker images “

To check status of the docker images we need to command “docker ps “

To make a container using the image

Docker run –-neme container\_name image\_name

To make a volume

Docker run –name –rm -v /app/node\_package -v ${PWD}:/app image\_name

A screenshot of a computer program

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Nodemon

Fist init mode package with - npm init -y

After install the modemon by npm I nodemon

After we need to update our package jsion file

"start": "nodemon -L index.js"

As well as install the all the dependencies to our image we need to

RUN npm install

And command want to change

Npm start 😊

A screen shot of a computer

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