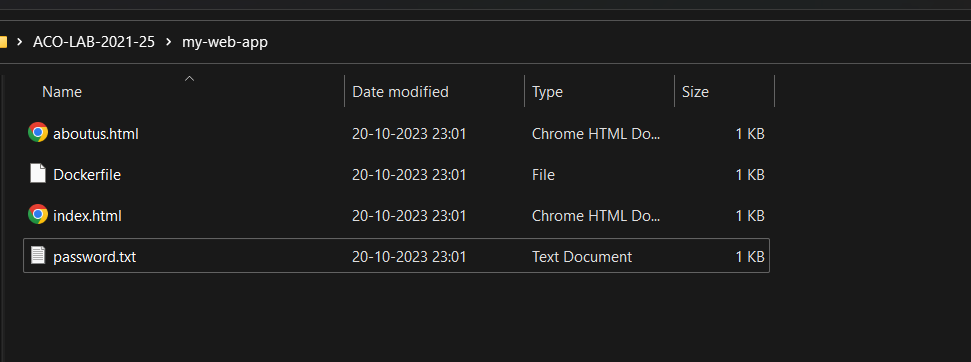
Lab Exercise 2– .dockerignore in Docker

Below is a lab exercise that can help you understand and practice using the

.dockerignore file:

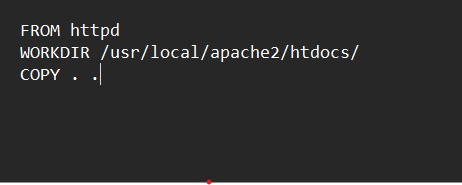
# Create a Sample Project:

* Create a simple project directory with various types of files, including source code, configuration files, and build artifacts.



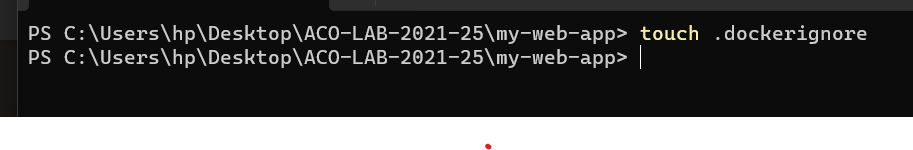
# Create a Dockerfile:

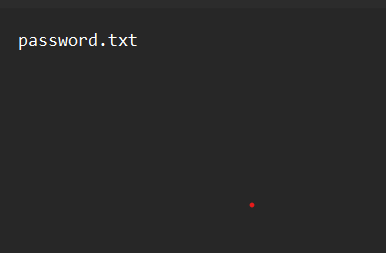
* Write a Dockerfile that specifies the build steps for your application, including any necessary dependencies.



# Create a .dockerignore File:

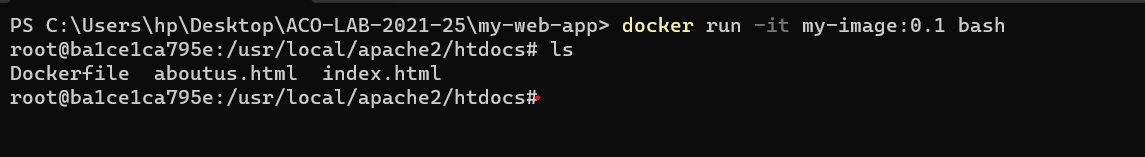
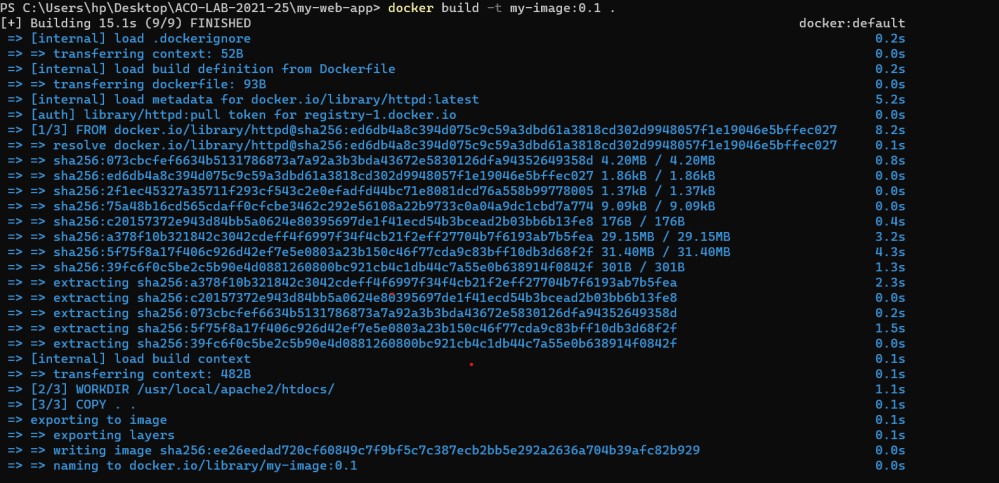
* Create a .dockerignore file in the root directory of your project.
* Add specific files or directories to the .dockerignore file that you do not want to be included in the Docker image during the build process.

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# Build the Docker Image:

* Use the docker build command to build the Docker image from the Dockerfile.
* Observe the build context and check which files are being included in the Docker image.



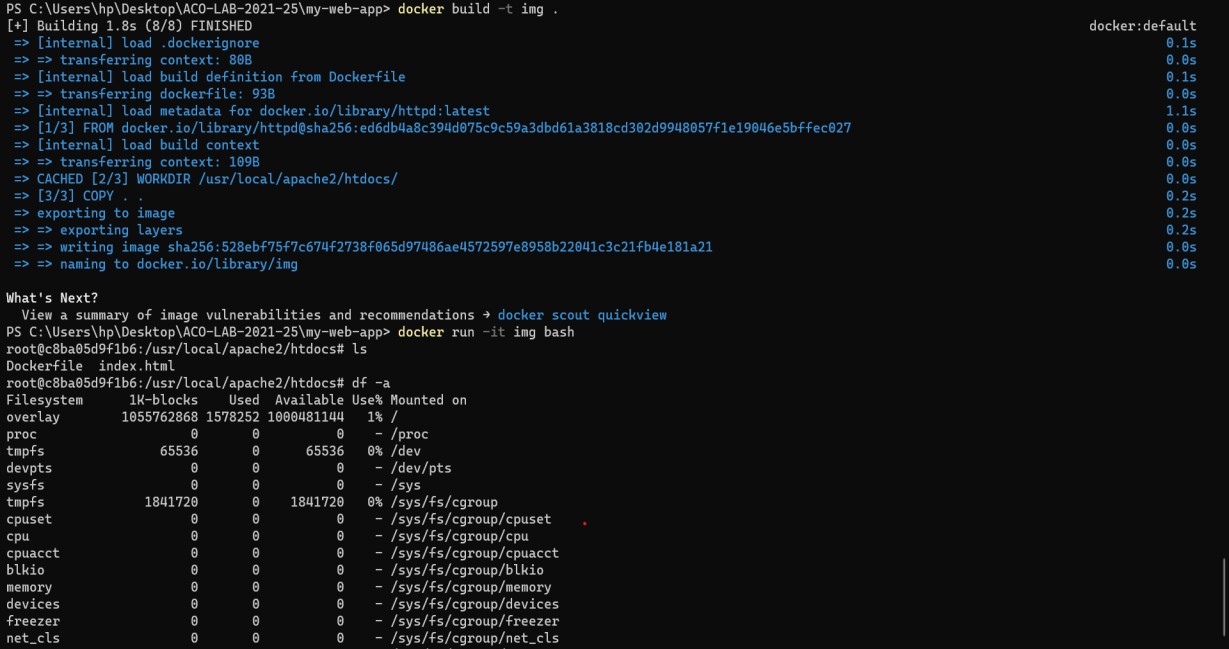
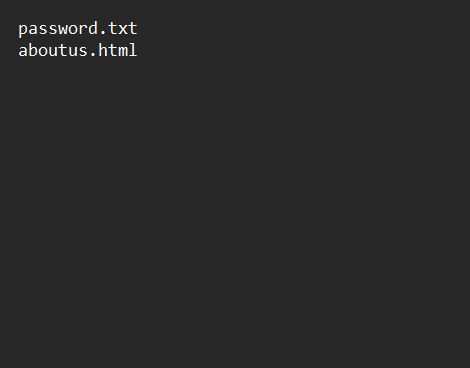
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# Modify .dockerignore and Rebuild:

* Modify the .dockerignore file to exclude different types of files or directories from the Docker image.
* Rebuild the Docker image and observe the changes in the build context.

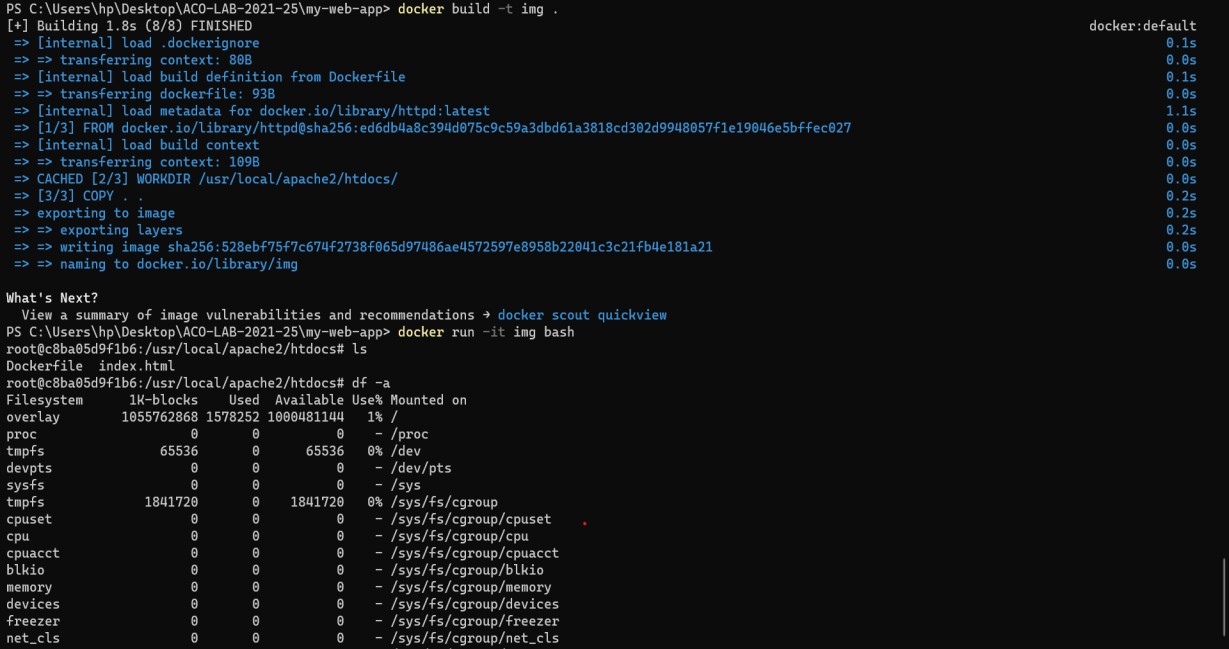
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# Test the Docker Image:

* Run the Docker image as a container using the docker run command.
* Verify that the container works as expected, despite certain files being excluded from the Docker image.

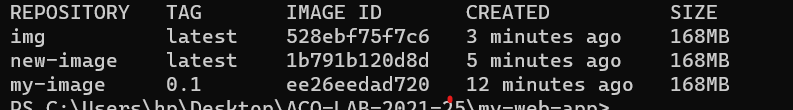
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# Optimize the .dockerignore File:

* Experiment with different patterns and wildcards in the .dockerignore file to optimize the build context and reduce the image size.

# Check Image Size and Contents:

* Use the docker image ls and docker image inspect commands to check the size of the Docker image and its contents.

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# Update .dockerignore for CI/CD:

* Modify the .dockerignore file to optimize the build context and reduce build times in a continuous integration and continuous deployment (CI/CD) pipeline.

# Documentation and Best Practices:

* Document your findings and the best practices for using the .dockerignore file in your projects.

Through this exercise, you'll gain a better understanding of how to use the

.dockerignore file effectively to optimize Docker image builds and reduce image sizes. Adjust the exercise based on your specific project requirements.