DevOps Engineer Home Exercise

Write a script in any language you like, which does the following:

1. Query “Rick and Morty” API and look for all characters that meets the following conditions:
   1. Species is “Human”
   2. Status is “Alive”
   3. Origin is “Earth”
2. Make a list of the results that will include:
   1. Name.
   2. Location.
   3. Image link.
3. Write the results to a csv file.

For example:

Name,Location,Image

Rick Sanchez,Earth,<https://rickandmortyapi.com/api/character/avatar/1.jpeg>

API Docs can be found here:

<https://rickandmortyapi.com/documentation/#rest>

Please provide a Github repo repository with your solution.  
Give Read access to [omrim@elementor.com](mailto:omrim@elementor.com)

### Bonus Points:

1. **Dockerizing as Service BONUS Points**

* Create REST API endpoints to fetch the data collected above and return JSON as response.
* Please provide /healthcheck REST API endpoint
* Create Dockerfile that will run your application
* Update README.md file that’s explains how to build and run your Docker Image
* Update README.md with the REST API endpoints you created and how to fetch data

1. **Kubernetes BONUS Points (Can accomplished with minikube/microk8s locally)**

* Create folder called yamls
* Please provide Deployment.yaml , Service.yaml , Ingress.yaml
* Update README.md on how to deploy the manifests to kubernetes

1. **Helm Chart Deployment BONUS Points**

* Create Helm folder
* Create Helm chart with proper resources and values.yaml
* Update README.md on how to deploy the Helm chart

1. **Github actions workflow(pipeline) BONUS Points**

* Create a workflow that will initiate small kubernetes cluster on Github Actions Runner
* Create the Docker image from Dockerfile
* Deploy the application to the local cluster created
* Run some tests to your application endpoints
* Update README.md with explanation about the workflow & jobs & steps
* Considering [omrim@elementor.com](mailto:omrim@elementor.com) will have read access to your repository please run the workflow once and he will check the action workflow output .