# **Local Application Directory Structure**

* Files under *Local Application* Directory
  + environment.yaml
  + app.py
  + api.py
  + rag\_prompt.py
  + llm.py
  + load\_check\_chromadb.py
* File under *Local Application/rag\_collection* Directory
  + rag\_cardiovascular\_disease\_risk.jsonl
* File under *Local Application/finetuning* Directory
  + patient\_case\_cvd\_status.jsonl
* File under *Local Application/finetuning/final\_version* Directory
  + fine\_tuned.tar
* Files under *Local Application/finetuning/final\_version/fine\_tuned*
  + added\_tokens.json
  + config.json
  + generation\_config.json
  + model.safetensors
  + special\_tokens\_map.json
  + spiece.model
  + tokenizer\_config.json
  + training\_args.bin

# **Local Application Setup**

## **Prerequisites**

Before proceeding below, ensure that both Anaconda Distribution and Docker Desktop are installed, and that Docker Desktop is in running state.

## **Steps**

Follow below steps to set up Conda Environment and Application in Local:

1. Open Anaconda Navigator
2. Open Powershell Prompt
3. In the opened Powershell Prompt, change to *Local Application* directory

cd 'Local Application'

Ensure that your working directory is the extracted folder in Powershell Prompt.

1. Create a new environment named *rag\_llm\_cardiovascular\_screening\_application* with required libraries using *environment.yaml*

conda env create --file environment.yaml

1. Activate the newly created Conda environment

conda activate rag\_llm\_cardiovascular\_screening\_application

1. Pull ChromaDB image

docker pull chromadb/chromadb:latest

1. Start ChromaDB container using earlier pulled ChromaDB image

docker run -d -p 8001:8000 --name chromadb chromadb/chroma:latest

1. Start FastAPI application

uvicorn api:app --host 0.0.0.0 --port 8000

1. Start Streamlit application in a new Powershell prompt

streamlit run app.py --server.port 8501

After starting Streamlit application, the Streamlit application automatically opens in a new tab with URL (<http://localhost:8501/>) in your default web browser.