

# 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.

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

`conda env create --file environment.yaml`

5. Activate the newly created Conda environment

`conda activate rag_llm_cardiovascular_screening_application`

6. Pull ChromaDB image

`docker pull chromadb/chromadb:latest`

7. Start ChromaDB container using earlier pulled ChromaDB image

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

8. Start FastAPI application

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

9. 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.