project/

├── main.py # Existing main entry point, integrate chatbot-backend main logic here

├── middleware.py # Authentication token middleware stays here

├── requirements.txt # Merged requirements

├── routers/

│ ├── \_\_init\_\_.py

│ ├── auth\_router.py # as is

│ ├── document\_router.py # as is, integrate ingestion logic if desired

│ ├── health\_router.py # new router for /api/health endpoint from chatbot-backend/main.py

│ └── query\_router.py # new router for /api/query endpoint

├── services/

│ ├── \_\_init\_\_.py

│ ├── auth.py # as is

│ ├── document\_service.py # file upload logic

│ ├── ingestion\_service.py # (new file) from ingestion.py (ingest\_document logic, load\_documents, etc.)

│ └── query\_service.py # (new file) from retrieval.py (process\_query logic, prompt init)

├── utils/

│ ├── \_\_init\_\_.py

│ ├── constants.py # from chatbot-backend/constants.py

│ ├── embedding\_utils.py # from chatbot-backend/utils.py (get\_embeddings function)

│ ├── chromadb\_utils.py # if you separate Chroma initialization logic

│ └── prompt\_utils.py # if needed for prompt templates and memory initialization

├── db/

│ ├── \_\_init\_\_.py

│ ├── database.py # if needed for database setup

│ └── migrations/ # database migration scripts

├── data/

│ └── source\_documents/ # from chatbot-backend/source\_documents, and WANLP22\_proceedings.pdf, etc.

├── uploads/

│ └── customer\_1/

├── static/

│ ├── chatbot.js # from chatbot-widget/

│ ├── chatbot.css

│ └── chatbot.html

├── frontend/ # formerly customer-dashboard

│ ├── public/

│ ├── src/

│ ├── package.json

│ ├── package-lock.json

│ └── README.md

└── tests/

├── \_\_init\_\_.py

└── # test files (to be created)