**🧭 Project Roadmap**

**✅ Phase 1: Core Backend**

* Set up **ASP.NET Core** project
* Add **HotChocolate** for GraphQL
* Create models: Note
* Add GraphQL queries & mutations (create/search notes)

**✅ Phase 2: Vector Search**

* Integrate with a **vector DB** (e.g. Qdrant or Weaviate)
* Use an **embedding service** (e.g. OpenAI or local ML.NET) to vectorize note content
* Enable semantic search by similarity

**✅ Phase 3: Logging and Metrics**

* Add **Serilog** for structured logging
* Add **Prometheus.NET** for exposing /metrics
* Create useful custom metrics (note count, search count, duration, etc.)

**✅ Phase 4: Observability**

* Set up **Elasticsearch + Kibana** (logging)
* Set up **Prometheus + Grafana** (metrics)
* Create dashboards for live monitoring

**✅ Phase 5: Deployment**

* Dockerize the ASP.NET app
* Docker Compose file with:

Qdrant/Weaviate

* + Prometheus
  + Grafana
  + Elasticsearch
  + Kibana