# Step 1: Requirements & Planning Execution Plan

## 1.1 Gather High-Level Requirements

- Objective Definition:  
 - Build a powerful, offline educational tool designed for people with limited internet access.  
 - Enable users to process documents and retrieve sociopolitical and historical information with contextual relevance.

- Target Users:  
 - Primary Users: Social activists, high school and diploma-level researchers.  
 - Secondary Users: Broader educational users with similar needs.

- Document Support:  
 - Support PDF, DOCX, TXT file formats.  
 - Use LLMSherpa for file ingestion and chunking.

- Query Scope:  
 - Focus queries and retrieval around historical and sociopolitical topics.

- Language Support:  
 - Provide bidirectional translation between Arabic and English.

## 1.2 Define Constraints & Targets

- Hardware Constraints:  
 - Optimize for systems with Core i5 or AMD Ryzen 5 processors.  
 - Ensure compatibility with moderate hardware configurations for offline use.

- Storage Constraints:  
 - Use ArangoDB for graph storage and SentenceTransformer('all-MiniLM-L12-v2') for embeddings.

- Performance Targets:  
 - Strive for the best possible performance within hardware constraints.  
 - Prioritize advanced hybrid search to combine graph-based and semantic retrieval.

- Regulatory Constraints:  
 - None identified.

- Functional Prioritization:  
 - Emphasize development of advanced hybrid retrieval and translation functionalities.

## 1.3 Draft Feasibility & Timeline

- Feasibility Considerations:  
 - Leverage available tools (LLMSherpa, SentenceTransformer, ArangoDB) to streamline implementation.  
 - Address hardware resource limitations in optimization stages.

- Timeline:  
 - Begin execution of Step 1 immediately to enable rapid transition to architecture and design.

- Risks and Alternatives:  
 - No immediate risks identified.  
 - Alternative solutions will not be considered at this stage to maintain focus and efficiency.

- MVP Considerations:  
 - Skip MVP prioritization as this tool is a gift and intended for comprehensive use from its initial release.