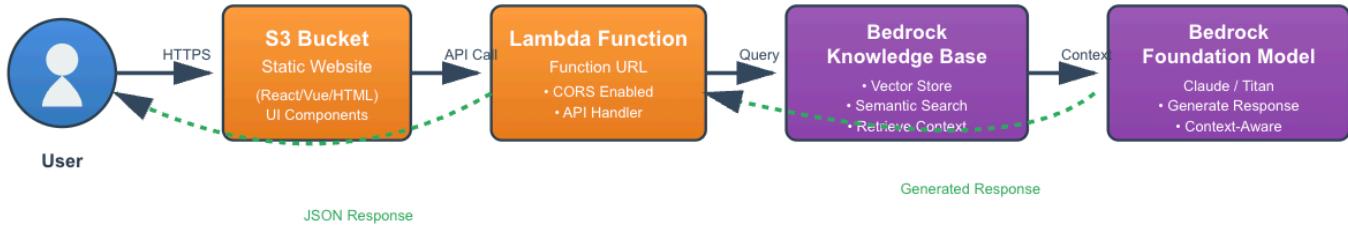


AWS Serverless RAG Architecture



Request/Response Flow

- 1 User Query**
 - User enters question in UI
 - Frontend sends POST request
- 2 Lambda Processing**
 - Receives request via Function URL
 - Validates input & handles CORS
- 3 Knowledge Retrieval**
 - Query embeddings generated
 - Vector similarity search
 - Relevant context retrieved
- 4 Response Generation**
 - FM receives query + context
 - Generates contextual answer
 - Returns to Lambda
- 5 Response Delivery**
 - Lambda formats response
 - UI displays answer to user

Key Features

- **Serverless Architecture:** No servers to manage
- **Auto-scaling:** Handles traffic spikes automatically
- **CORS Enabled:** Secure cross-origin requests
- **RAG Pattern:** Retrieval-Augmented Generation
- **Low Latency:** Fast response times
- **Cost-Effective:** Pay per request
- **Secure:** IAM-based access control
- **Semantic Search:** Context-aware retrieval
- **State-of-the-art AI:** Latest foundation models

AWS Serverless RAG Application | S3 + Lambda + Bedrock Knowledge Base + Foundation Models