Team Name : AI Visionaries

Team Leader Name : Prathmesh Gattani

Problem Statement : AI for Learning & Developer Productivity

Brief about the Idea:

AI Project Brain
An AI-powered Persistent Organizational Memory System that continuously learns from project updates and enables intelligent contextual knowledge retrieval, onboarding, and decision tracking.

Problem:
• Knowledge scattered across documents, code, emails
• Repetitive knowledge transfer (KT)
• Onboarding takes weeks
• Dependency on senior developers

Solution:
AI system that:
• Stores knowledge in compact structured form
• Enables contextual Q&A
• Generates onboarding roadmap
• Tracks project evolution over time

How different is it from any of the other existing ideas?

❌ **Existing Tools:**
•Google Drive → Just storage
•Confluence → Manual documentation
•Chatbots → No project-specific memory

✅ **Our Differentiation:**
1.Uses RAG (Retrieval Augmented Generation)
2.Builds semantic memory using vector embeddings
3.Context-aware answering
4.AI-powered onboarding mode
5.Timeline intelligence tracking

How It Solves the Problem ?

Before:
•2–3 weeks onboarding
•Multiple KT meetings
•Knowledge loss when employees leave

After AI Project Brain:
•Onboarding reduced to hours
•Instant contextual answers
•Structured decision history
•Reduced dependency on individuals

USP of the Proposed Solution.

- Persistent AI Memory
- Contextual Project Understanding
- AI Onboarding Assistant
- Timeline Intelligence
- Knowledge Graph Visualization
- Scalable Enterprise Architecture

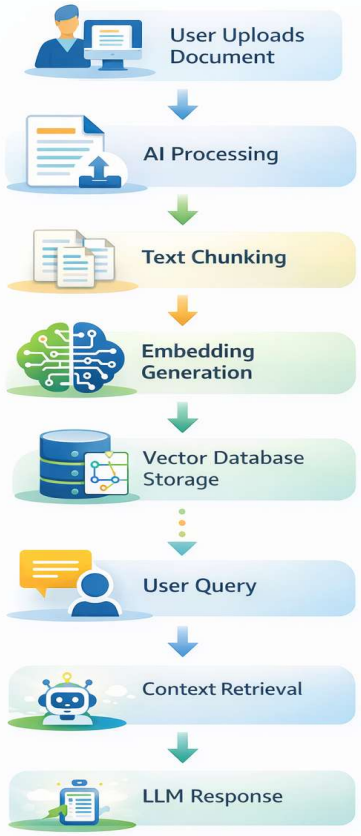
Features Offered

Core Features

1. Intelligent Knowledge Compression
2. Conversational Project Q&A
3. Smart Onboarding Mode
4. Timeline-Based Change Tracking
5. Knowledge Graph Visualization
6. Role-Based Information Views
7. Risk Insight Mode (Bug-prone area detection)

Process Flow Diagram

User Uploads Document
⬇
AI Processing
⬇
Text Chunking
⬇
Embedding Generation
⬇
Vector Database Storage
⬇
User Query
⬇
Context Retrieval
⬇
LLM Response



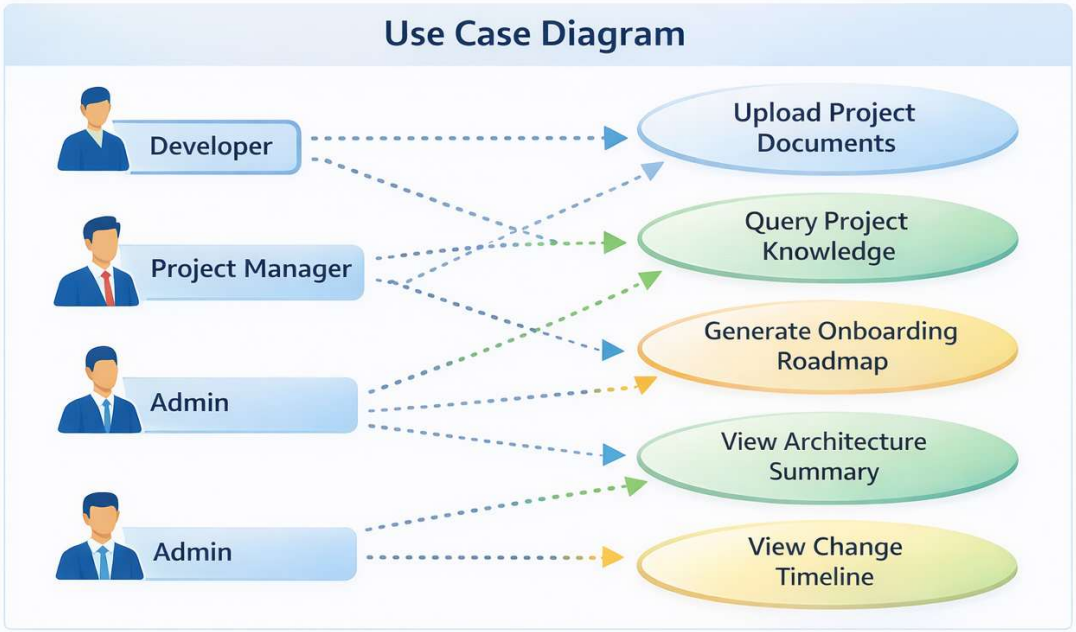
Use Case Diagram:

Actors:

- Developer
- Project ManagerAdmin

Use Cases:

- Upload project documents
- Query project knowledge
- Generate onboarding roadmap
- View architecture summary
- View change timeline



Wireframe Idea (Mock Layout)

Screen 1:
Project Selection Dashboard

Screen 2:
Chat Interface

Screen 3:
Onboarding Mode

Screen 4:
Knowledge Graph View

Technologies to Be Used

Frontend:

- Blazor
- Bootstrap / Angular
- Chart.js / Graph visualization

Backend:

- ASP.NET Core
- REST API

AI Layer:

- Python Flask
- LLM API
- FAISS Vector Database
- RAG Architecture

Deployment:

- AWS EC2
- AWS S3

Future Scope :

- Auto codebase understanding
- Enterprise SaaS model
- Healthcare knowledge system
- Multi-language support (Bharat-focused)
- Voice-enabled onboarding assistant
- Integration with GitHub repositories

Impact :

- ✓ Reduces onboarding time by 70%
- ✓ Increases productivity
- ✓ Prevents knowledge loss
- ✓ Scalable for enterprises
- ✓ Can evolve into SaaS startup

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Thank You