**Project Charter**

**Generated by:** Requirements Gathering Agent v2.1.3

**Project:** === PROJECT README ===

**Category:** project-charter

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The Project Charter formally authorizes the Requirements Gathering Agent project. It defines the objectives, scope, stakeholders, deliverables, constraints, risks, and high-level requirements. This document provides the project manager with the authority to allocate resources and begin project execution.

• **Project Name:** Requirements Gathering Agent

• **Project Sponsor:** [Insert Sponsor Name]

• **Project Manager:** [Insert Project Manager Name]

• **Start Date:** [Insert Start Date]

• **End Date:** [Insert End Date]

• **Version:** 2.1.3-prerelease

• **Key Milestone:** Achievement of 175 weekly downloads on npm.

The Requirements Gathering Agent is an AI-powered tool designed to automate the creation of PMBOK-compliant project management documentation. By leveraging Azure OpenAI and other AI providers, this tool addresses the inefficiencies of manual documentation processes, reduces administrative overhead, ensures compliance, and improves stakeholder alignment.

Manual project documentation creation is time-consuming, prone to errors, inconsistent, and often fails to meet PMBOK compliance standards, leading to delays and misaligned stakeholder expectations.

The Requirements Gathering Agent automates the generation of PMBOK-compliant documents, including project charters, stakeholder registers, risk plans, and scope management plans. It integrates AI-driven enhancements to ensure quality, compliance, and consistency across all documents.

• **Time Savings:** Significantly reduces the time required to generate project documentation.

• **Improved Accuracy:** Ensures PMBOK compliance and eliminates human errors.

• **Stakeholder Alignment:** Provides professional-grade documentation tailored to stakeholder needs.

• **Market Validation:** Strong adoption with 175 weekly downloads on npm demonstrates demand.

Develop a Node.js/TypeScript CLI tool to automate PMBOK-compliant document generation.

Ensure compliance with PMBOK 7th Edition standards for all generated artifacts.

Integrate with Azure OpenAI and other AI providers for enhanced context management.

Achieve seamless export functionality for Word (.docx) and PowerPoint (.pptx) formats.

Provide modular architecture for future integrations and scalability.

Enhance user experience with interactive CLI-based AI provider selection.

The Requirements Gathering Agent will analyze project documentation files (e.g., README.md, requirements documents, architecture files) using intelligent context-building strategies to generate PMBOK-aligned management plans, planning artifacts, and stakeholder documentation. The system will support multiple AI providers, robust error handling, and enterprise-ready export formats.

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| **Requirement ID** | **Description** | **Priority** |
| FR-1 | Generate PMBOK-compliant project charters and management plans. | High |
| FR-2 | Support export to Word (.docx) and PowerPoint (.pptx) formats. | High |
| FR-3 | Integrate with Azure OpenAI and other AI providers securely. | High |
| FR-4 | Enable interactive CLI menu for AI provider selection. | Medium |
| FR-5 | Provide modular architecture for future scalability. | Medium |
| FR-6 | Perform schema validation for generated outputs. | High |

• Development of CLI tools for document generation.

• Integration with Azure OpenAI, Google AI, GitHub Copilot, and Ollama.

• Generation of PMBOK-compliant documents, including project charters, stakeholder registers, and risk plans.

• Export functionality for Word (.docx) and PowerPoint (.pptx) formats.

• Implementation of Enhanced Context Manager for AI optimization.

• Development of AI models outside integration scope.

• Project-specific customization of generated documents beyond PMBOK compliance.

• Mobile or web-based interfaces for the tool.

**PMBOK-Compliant Documents:**

- Project Charter

- Stakeholder Register

- Scope Management Plan

- Risk Management Plan

- Work Breakdown Structure (WBS)

- Communications Management Plan

**Export Functionality:**

- Professional Word (.docx) and PowerPoint (.pptx) documents.

**Enhanced Context Manager:**

- Intelligent context-building strategy for AI models.

- Context utilization report generation.

**Interactive CLI Menu:**

- AI provider selection interface.

• Project documentation files will follow industry-standard naming conventions and structures.

• AI provider APIs will remain stable and accessible throughout the project lifecycle.

• Stakeholders will provide timely feedback during validation phases.

• Integration with AI providers must comply with organizational security policies (e.g., Azure Entra ID).

• The CLI tool must be compatible with Node.js environments (v18.0.0 or higher).

• The project timeline must ensure delivery within [Insert Timeframe].

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| **Risk ID** | **Description** | **Mitigation Strategy** |
| R-1 | AI provider API downtime or failure. | Implement fallback mechanisms and retry logic. |
| R-2 | Token limits for large context AI models. | Optimize context management using Enhanced Context Manager strategies. |
| R-3 | Documentation inconsistency across PMBOK artifacts. | Perform cross-document validation and quality assessments. |

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| **Risk ID** | **Description** | **Mitigation Strategy** |
| R-4 | Stakeholder delays in providing feedback. | Establish clear communication plans and deadlines. |
| R-5 | Scalability limitations in CLI architecture. | Design modular and extensible architecture. |

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| **Name** | **Role** | **Interest** |
| [Insert Name] | Project Sponsor | Ensure project aligns with business goals. |
| [Insert Name] | Project Manager | Oversee project execution and deliverables. |
| [Insert Name] | Developers | Build the CLI tool and integrate AI providers. |
| [Insert Name] | Business Analysts | Validate PMBOK compliance and stakeholder requirements. |

This Project Charter must be reviewed and approved by:

Project Sponsor

Project Manager

Key Stakeholders and Subject Matter Experts

By signing below, you authorize the Requirements Gathering Agent project and approve the allocation of resources for its execution.

| Name | Role | Signature | Date