**User Stories**

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

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

**Category:** core-analysis

**Generated:** 10/06/2025, 01:21:40

──────────────────────────────────────────────────

# **User Stories for Requirements Gathering Agent**

## **\*\*Feature Area: Core Functionality\*\***

### **\*\*User Role: Project Manager\*\***

#### **\*\*User Story 1\*\***

\*\*Story:\*\*

"As a Project Manager, I want to automatically generate PMBOK-compliant project charters so that I can reduce the time spent on manual documentation creation and ensure compliance with industry standards."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The system must generate a complete PMBOK-compliant project charter based on provided input data.

The generated charter must include all required PMBOK elements (e.g., objectives, constraints, assumptions).

The output must be in both validated JSON and markdown formats.

The system must provide detailed error messages if any required input is missing.

The system must allow re-generation after corrections are made.

\*\*Notes:\*\*

• Depends on the Document Generation Engine.

• Requires schema validation and PMBOK compliance logic.

#### **\*\*User Story 2\*\***

\*\*Story:\*\*

"As a Project Manager, I want to validate existing project documentation against PMBOK standards so that I can ensure all necessary elements are included and compliant."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The system must analyze provided markdown files and score them based on PMBOK compliance (0-100).

Validation must include checks for completeness, terminology usage, and structure.

The system must generate a detailed compliance report with actionable recommendations.

Users must be notified of missing or inconsistent elements across related documents.

Validation must support files beyond README.md, including planning and stakeholder documents.

\*\*Notes:\*\*

• Requires Enhanced Context Manager for comprehensive analysis.

• Depends on PMBOK validation logic.

#### **\*\*User Story 3\*\***

\*\*Story:\*\*

"As a Project Manager, I want to generate stakeholder engagement plans so that I can better manage stakeholder expectations and communication strategies."

\*\*Priority:\*\* Should Have

\*\*Acceptance Criteria:\*\*

The system must generate a complete stakeholder engagement plan based on stakeholder data.

The plan must include sections for stakeholder identification, influence analysis, and engagement strategies.

Generated plans must be formatted according to PMBOK standards.

The system must allow users to input custom stakeholder information for more tailored plans.

The output must be consistent with other related documents, such as the stakeholder register.

\*\*Notes:\*\*

• Requires integration with the Stakeholder Register module.

• Depends on comprehensive stakeholder analysis.

### **\*\*User Role: Business Analyst\*\***

#### **\*\*User Story 4\*\***

\*\*Story:\*\*

"As a Business Analyst, I want to generate detailed requirements documentation so that I can ensure all functional and non-functional needs are captured and traceable."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The system must generate a requirements document that includes functional and non-functional requirements.

Each requirement must have a unique ID, priority level, and traceability to project objectives.

The system must allow users to input additional requirements manually.

The output must be formatted in both markdown and JSON for easy integration with other tools.

The document must include constraints and acceptance criteria for each requirement.

\*\*Notes:\*\*

• Depends on the Requirements Management Plan module.

• Requires input from the Project Scope Statement.

#### **\*\*User Story 5\*\***

\*\*Story:\*\*

"As a Business Analyst, I want to generate user stories from project requirements so that I can support agile development workflows."

\*\*Priority:\*\* Should Have

\*\*Acceptance Criteria:\*\*

The system must transform requirements into user stories following the format: "As a [user role], I want [goal/desire] so that [benefit]."

User stories must be categorized by priority levels (e.g., Must Have, Should Have).

Each user story must include acceptance criteria and associated constraints.

Stories must support export in markdown and JSON formats.

The system must allow for manual editing and refinement of generated user stories.

\*\*Notes:\*\*

• Requires integration with the Requirements documentation module.

• Depends on the enhanced context-building logic.

### **\*\*User Role: Developer\*\***

#### **\*\*User Story 6\*\***

\*\*Story:\*\*

"As a Developer, I want to select the AI provider dynamically via an interactive CLI menu so that I can easily configure the system without manual environment variable updates."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The CLI must display a menu with available AI providers (e.g., OpenAI, Google AI, GitHub Copilot).

Users must be able to select a provider and configure it without restarting the application.

The system must validate the selected provider’s availability before proceeding.

Configuration changes must be automatically reflected in the `.env` file.

The CLI must provide fallback options for manual configuration if the interactive menu is not used.

\*\*Notes:\*\*

• Depends on the Provider Integration module.

• Requires real-time provider availability checks.

### **\*\*User Role: Compliance Officer\*\***

#### **\*\*User Story 7\*\***

\*\*Story:\*\*

"As a Compliance Officer, I want to generate risk management plans so that I can identify, analyze, and mitigate project risks while ensuring PMBOK compliance."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The system must generate a risk management plan that includes risk identification, analysis, and response strategies.

Each risk must be categorized by type, probability, and impact level.

The plan must include mitigation and contingency strategies for high-priority risks.

The output must align with PMBOK standards and include traceability to project scope and objectives.

The system must allow users to input additional risks manually.

\*\*Notes:\*\*

• Requires integration with the Scope Management Plan module.

• Depends on risk analysis logic.

### **\*\*User Role: Technical Lead\*\***

#### **\*\*User Story 8\*\***

\*\*Story:\*\*

"As a Technical Lead, I want the system to generate a technology stack analysis so that I can make informed decisions about the technical implementation of the project."

\*\*Priority:\*\* Could Have

\*\*Acceptance Criteria:\*\*

The system must generate a technology stack analysis based on project requirements and constraints.

The analysis must include recommendations for programming languages, frameworks, and tools.

Each recommendation must include pros, cons, and estimated implementation effort.

The output must be formatted in markdown and JSON for easy sharing.

The system must allow users to input preferences or constraints for more tailored recommendations.

\*\*Notes:\*\*

• Depends on the Architecture Documentation module.

### **\*\*User Role: End User\*\***

#### **\*\*User Story 9\*\***

\*\*Story:\*\*

"As an End User, I want comprehensive tutorials and training materials so that I can quickly learn how to use the system and generate documents effectively."

\*\*Priority:\*\* Should Have

\*\*Acceptance Criteria:\*\*

The system must provide tutorials in markdown format, covering installation, configuration, and usage.

Training materials must include step-by-step instructions for generating PMBOK-compliant documents.

The tutorials must include troubleshooting steps for common issues.

All materials must be accessible via the CLI and online documentation portal.

The system must provide examples of generated documents for reference.

\*\*Notes:\*\*

• Depends on documentation completeness and usability testing.

## **\*\*Feature Area: Non-Functional Requirements\*\***

### **\*\*User Role: All Users\*\***

#### **\*\*User Story 10\*\***

\*\*Story:\*\*

"As a user, I want the system to handle large context sizes efficiently so that I can generate accurate documents without performance issues."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The Enhanced Context Manager must support models with up to 2M tokens.

The system must prioritize high-relevance files and truncate less important content if token overflow occurs.

Context utilization must be reported for each generated document, showing token usage and truncation details.

The system must optimize resource usage to avoid memory or processing bottlenecks.

The system must provide warnings if context size exceeds model limits.

\*\*Notes:\*\*

• Depends on Enhanced Context Manager optimization logic.

#### **\*\*User Story 11\*\***

\*\*Story:\*\*

"As a user, I want robust error handling so that I can recover from issues without losing progress or output."

\*\*Priority:\*\* Must Have

\*\*Acceptance Criteria:\*\*

The system must gracefully handle errors during document generation and provide detailed error messages.

Failed processes must be automatically retried up to 3 times.

Users must be able to manually retry failed processes via the CLI.

The system must log all errors for debugging purposes.

The system must notify users of potential configuration issues during initialization.

\*\*Notes:\*\*

• Requires error-handling logic in the Document Generation Engine.

## **\*\*Dependencies and Constraints\*\***

Enhanced Context Manager must be fully implemented and optimized for large models.

AI providers must support necessary token limits and API features.

All generated documents must adhere to PMBOK standards and validation requirements.

CLI tools must be compatible with Node.js runtime environments.

Tutorials and documentation must be updated alongside feature releases.

These user stories provide a comprehensive overview of functional, non-functional, and edge-case requirements for the Requirements Gathering Agent project. Each story adheres to agile principles,