**User Stories**

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

**Category:** core-analysis

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• **Story:**

*As a Project Manager, I want to automatically generate PMBOK-compliant project charters so that I can save time and ensure documentation accuracy.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. The system generates a complete project charter document based on provided inputs.

2. The document includes all required PMBOK elements (e.g., objectives, constraints, assumptions).

3. Validation against PMBOK 7.0 compliance is performed.

4. The file format is selectable (Markdown, JSON, Word).

5. The generated document is organized within the output directory structure.

• **Notes:**

Requires integration with the AI provider for content generation.

• **Story:**

*As a Project Manager, I want to generate stakeholder registers automatically so that I can identify and engage stakeholders efficiently.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. The stakeholder register includes stakeholder names, roles, interests, and influence.

2. It categorizes stakeholders based on engagement level.

3. The register adheres to PMBOK 7.0 standards.

4. Export options include Markdown, Word, and JSON formats.

5. The register is validated for completeness and consistency with other documents.

• **Notes:**

Requires access to stakeholder information files.

• **Story:**

*As a Project Manager, I want to validate existing project documentation against PMBOK standards so that I can ensure compliance and identify gaps.*

• **Priority:** Should Have

• **Acceptance Criteria:**

1. The system scans all documentation files within the project directory.

2. Files are scored for PMBOK compliance (0-100 scale).

3. A compliance report is generated with actionable recommendations.

4. Cross-document consistency validation is performed.

5. Errors and warnings are highlighted for quick resolution.

• **Notes:**

Requires a comprehensive project analysis module.

• **Story:**

*As a Business Analyst, I want to generate detailed user stories based on project requirements so that I can define clear and actionable tasks for development teams.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. User stories follow the format: "As a [user role], I want [goal/desire] so that [benefit]."

2. Stories are categorized by feature area and priority.

3. Acceptance criteria are automatically suggested based on requirements.

4. Export options include Markdown, Word, and JSON formats.

5. Stories are consistent with the project scope and requirements documentation.

• **Notes:**

Requires integration with requirement files and stakeholder analysis.

• **Story:**

*As a Business Analyst, I want to generate a Requirements Management Plan so that I can ensure traceability and alignment of project requirements.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. The plan defines processes for gathering, analyzing, and validating requirements.

2. The plan includes traceability matrix details.

3. The generated document adheres to PMBOK standards.

4. Export options include Markdown, Word, and JSON formats.

5. The plan is validated for completeness and alignment with the project charter.

• **Notes:**

Requires access to requirements documentation files.

• **Story:**

*As a Business Analyst, I want to categorize discovered documents by relevance and type so that I can prioritize high-value sources for analysis.*

• **Priority:** Should Have

• **Acceptance Criteria:**

1. Files are automatically categorized into primary, planning, development, and other types.

2. Each file is scored for relevance (0-100) based on content and naming patterns.

3. The categorization is presented in a summary report.

4. High-value documents are highlighted for manual review.

5. The categorization is consistent across multiple project structures.

• **Notes:**

Requires intelligent source discovery and scoring algorithm.

• **Story:**

*As a Developer, I want to configure the system to select specific AI providers so that I can optimize performance and cost.*

• **Priority:** Could Have

• **Acceptance Criteria:**

1. A CLI-based interactive menu allows users to select an AI provider.

2. Providers include OpenAI, Google AI, GitHub Copilot, and Ollama.

3. The system validates provider availability and configuration.

4. The selected provider is saved in the .env file for future use.

5. Users can switch providers without restarting the application.

• **Notes:**

Requires integration with the provider selection module.

• **Story:**

*As a Developer, I want to generate professional Word documents from PMBOK artifacts so that I can deliver enterprise-ready documentation to stakeholders.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. Generated .docx files include professional formatting and metadata.

2. Heading hierarchy and content structure follow corporate standards.

3. Files are optimized for size and compatibility with Microsoft Word.

4. Exported documents are organized within the output directory structure.

5. The Word export feature works consistently across all document types.

• **Notes:**

Requires integration with the Word export module.

• **Story:**

*As a Compliance Officer, I want to generate a Risk Management Plan automatically so that I can identify and mitigate project risks effectively.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. The plan includes risk identification, analysis, and response strategies.

2. Risks are categorized by impact and likelihood.

3. The plan adheres to PMBOK 7.0 standards.

4. Export options include Markdown, Word, and JSON formats.

5. The plan is validated for completeness and alignment with project objectives.

• **Notes:**

Requires integration with risk analysis modules.

• **Story:**

*As a Compliance Officer, I want to ensure cross-document consistency so that all project documentation aligns with PMBOK standards.*

• **Priority:** Should Have

• **Acceptance Criteria:**

1. The system performs consistency checks across related documents.

2. Terminology and objectives are aligned between documents.

3. Errors and discrepancies are highlighted in a validation report.

4. The consistency check is performed during document generation.

5. The report includes actionable recommendations for improvement.

• **Notes:**

Requires a robust validation module.

• **Story:**

*As a System Administrator, I want robust error handling and retry logic so that the system can recover from failures and ensure reliable document generation.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. Errors during document generation are logged and reported.

2. Retry logic is implemented for transient failures.

3. The system provides clear error messages for debugging.

4. A summary report highlights failed operations and resolutions.

5. The error handling system supports CLI and API usage.

• **Notes:**

Requires a unified error handling framework.

• **Story:**

*As a System Administrator, I want the system to optimize context utilization for large AI models so that I can maximize accuracy and performance.*

• **Priority:** Must Have

• **Acceptance Criteria:**

1. Context utilization reports are generated during document creation.

2. The Enhanced Context Manager optimizes token usage (20-90%).

3. AI provider capabilities are auto-detected and adjusted.

4. The system provides suggestions for reducing context overflow.

5. Context utilization is consistent across multiple document types.

• **Notes:**

Requires integration with the Enhanced Context Manager.

• **Story:**

*As a Product Manager, I want to handle projects with incomplete documentation so that the system can still generate usable PMBOK artifacts.*

• **Priority:** Could Have

• **Acceptance Criteria:**

1. Missing documentation is flagged during analysis.

2. AI generates substitute content based on best practices.

3. The system provides a summary of missing inputs and assumptions made.

4. Generated documents are marked as "draft" for