## User Stories for Requirements Gathering Agent

**I. Project Manager User Stories**

1. **As a Project Manager,** I want to generate a complete PMBOK-compliant project charter from my project’s README and other documentation so that I have a formally approved document to guide the project.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The generated charter accurately reflects the project’s goals, scope, stakeholders, and timelines as defined in the source documents.
     + The charter adheres to PMBOK 7.0 standards for content and format.
     + The charter is generated in a professional, easily readable format (e.g., .docx, markdown).
     + The tool provides a clear indication of any missing information or potential inconsistencies.
   * **Notes:** Depends on successful project analysis and AI model integration.
2. **As a Project Manager,** I want to generate all necessary PMBOK-compliant planning documents (scope, risk, cost, quality, resource, communication, procurement management plans) from my project’s documentation so that I have a comprehensive set of plans to manage the project effectively.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + All generated plans are complete and adhere to PMBOK 7.0 standards.
     + Plans are consistent with each other and the project charter.
     + The tool provides a clear indication of any potential conflicts or inconsistencies between plans.
     + Documents are generated in a chosen professional format (.docx, markdown, etc.).
   * **Notes:** Depends on successful project analysis, AI model integration, and comprehensive documentation.
3. **As a Project Manager,** I want to generate a Work Breakdown Structure (WBS) and WBS Dictionary from my project’s requirements and scope so that I can clearly define and track project tasks.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The WBS accurately reflects the project’s scope and tasks.
     + The WBS Dictionary provides detailed descriptions of each work package.
     + The WBS is hierarchically organized and easy to understand.
     + The WBS is generated in a chosen professional format.
   * **Notes:** Depends on successful project analysis and AI model integration.
4. **As a Project Manager,** I want to generate a stakeholder register and engagement plan from my project’s documentation so that I can effectively manage stakeholder communication and expectations.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The stakeholder register includes all identified stakeholders with relevant information (roles, interests, influence).
     + The engagement plan outlines a communication strategy for each stakeholder group.
     + The documents are generated in a chosen professional format.
   * **Notes:** Depends on successful project analysis and AI model integration. Requires sufficient stakeholder information in source documents.
5. **As a Project Manager,** I want the tool to validate the generated documents against PMBOK 7.0 standards so that I can ensure compliance and quality.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The tool identifies any deviations from PMBOK 7.0 standards.
     + The tool provides specific recommendations for improvement.
     + Validation reports are clear, concise, and actionable.
   * **Notes:** Requires a robust validation engine.
6. **As a Project Manager,** I want to be able to export the generated documents in multiple formats (e.g., .docx, markdown, JSON) so that I can easily share and use them with different stakeholders and tools.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + Documents are exported in the selected format without errors.
     + Exported documents retain formatting and content integrity.
     + The tool provides options for specifying output directory.
   * **Notes:** Requires robust export functionality for each supported format.
7. **As a Project Manager,** I want the tool to analyze all relevant documentation in my project (beyond just the README) so that the generated documents are as complete and accurate as possible.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The tool identifies and processes relevant files from specified directories.
     + The tool prioritizes the most relevant information for document generation.
     + The tool provides a report showing the files analyzed and their relevance scores.
   * **Notes:** Requires a sophisticated project analysis engine.
8. **As a Project Manager,** I want the system to handle errors gracefully and provide informative messages so that I can easily troubleshoot issues.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The tool provides clear error messages when issues occur (e.g., invalid API key, missing files).
     + The tool suggests solutions or next steps for resolving errors.
     + The tool logs errors to a file for later review.
   * **Notes:** Requires robust error handling and logging.
9. **As a Project Manager,** I want to choose the AI provider (Azure OpenAI, Google AI, etc.) to be used for document generation so that I can leverage the best model for my needs and budget.
   * **Priority:** Should Have
   * **Acceptance Criteria:**
     + The tool provides a clear and easy-to-use interface for selecting the AI provider.
     + The tool validates the selected provider’s API key or credentials.
     + The tool gracefully handles failures to connect to the selected AI provider.
   * **Notes:** Requires integration with multiple AI providers.
10. **As a Project Manager,** I want to specify a custom output directory for the generated documents so that I can organize my project files effectively.
    * **Priority:** Should Have
    * **Acceptance Criteria:**
      + The tool allows specifying the output directory via command-line arguments or configuration file.
      + The tool creates the specified directory if it does not exist.
      + The tool handles errors gracefully if the specified directory cannot be created.
    * **Notes:** Requires flexible output handling.

**II. Business Analyst User Stories**

1. **As a Business Analyst,** I want to generate user stories and user personas from the project’s requirements documentation so that I can better understand user needs and create effective user interfaces.
   * **Priority:** Should Have
   * **Acceptance Criteria:**
     + Generated user stories follow a consistent format (e.g., As a [user], I want [goal] so that [benefit]).
     + User personas are well-defined, including demographics, motivations, and goals.
     + The generated user stories and personas accurately reflect the requirements documentation.
   * **Notes:** Depends on successful project analysis and AI model integration.
2. **As a Business Analyst,** I want the tool to provide a quality assessment of the generated documents so that I can identify areas for improvement.
   * **Priority:** Should Have
   * **Acceptance Criteria:**
     + The tool provides a score indicating the overall quality of each generated document.
     + The tool provides specific feedback on areas needing improvement (e.g., clarity, completeness, consistency).
     + The tool suggests specific actions for improving document quality.
   * **Notes:** Requires a sophisticated quality assessment engine.

**III. Developer User Stories**

1. **As a Developer,** I want comprehensive API documentation to easily integrate the Requirements Gathering Agent into my CI/CD pipeline.
   * **Priority:** Should Have
   * **Acceptance Criteria:**
     + Well-structured API documentation is provided, including request/response formats, error handling, and authentication methods.
     + The documentation includes code samples in multiple programming languages.
     + The documentation is easy to understand and navigate.
   * **Notes:** Requires detailed API documentation.
2. **As a Developer,** I want the tool to be easily extensible so that I can add support for new document types or AI providers.
   * **Priority:** Could Have
   * **Acceptance Criteria:**
     + The tool’s architecture allows for the addition of new document types with minimal code changes.
     + The tool’s architecture allows for the addition of new AI providers with minimal code changes.
     + The tool provides clear documentation on how to extend its functionality.
   * **Notes:** Requires a modular and well-documented architecture.
3. **As a developer,** I want detailed logging and error handling so that I can easily debug and maintain the system.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The tool logs all relevant events to a file.
     + Log messages are informative and easy to understand.
     + The tool provides detailed error messages when issues occur.
   * **Notes:** Requires a robust logging system.

**IV. Non-Functional Requirements**

1. **As a user,** I want the tool to be reliable and performant so that I can generate documents quickly and efficiently.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The tool generates documents within a reasonable timeframe.
     + The tool handles large projects without significant performance degradation.
     + The tool is robust and resistant to failures.
2. **As a user,** I want the tool to be easy to use so that I can generate documents with minimal training.
   * **Priority:** Must Have
   * **Acceptance Criteria:**
     + The tool has a clear and