Project Statement of Work

Generated by Requirements Gathering Agent v2.1.2
Category: core-analysis
Generated: 2025-06-10T08:11:43.170Z
Description: Project Statement of Work detailing scope, deliverables, and acceptance criteria

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Project Statement of Work: Requirements Gathering Agent Enhancement & Validation

Project ID: RGA-Enhancement-V2.1.3

Date: October 26, 2024

Prepared by: [Your Name/Company Name]

1. Project Description

This project focuses on enhancing the Requirements Gathering Agent (RGA), a Node.js/TypeScript CLI tool that leverages AI to generate PMBOK-compliant project documentation. The current version (v2.1.1) has achieved significant traction (175 weekly NPM downloads), demonstrating market demand. This enhancement project addresses identified issues, implements requested features, and further refines the tool's performance and user experience. The project will also include rigorous validation against PMBOK 7.0 standards. The core enhancement will focus on improving the AI context management system to increase accuracy and efficiency.

2. Project Scope

Included:

- **Enhancement of the Enhanced Context Manager:** Implementation of suggested improvements outlined in the project README (Asynchronous context population, user-configurable context strategies, context pruning, more granular metrics, etc.) within `llmProcessor.ts` and `contextManager.ts`.
- **Implementation of a User-Friendly AI Provider Selection Menu:** Creation of an interactive CLI menu allowing users to select their preferred AI provider (OpenAI, Google AI, GitHub AI, Ollama) without manual `.env` file editing.
- **Comprehensive PMBOK 7.0 Validation:** Implementation of robust validation checks across all generated documents to ensure compliance with PMBOK 7.0 standards. This includes completeness checks, terminology

validation, and cross-document consistency checks. Generation of detailed validation reports.
- **Bug Fixes:** Resolution of outstanding issues as documented in the project README (zero tokens in context, CLI permission errors, etc.).
- **Documentation Updates:** Updating existing documentation to reflect enhancements and additions. Creation of new documentation for the provider selection menu and validation processes. This includes updated user guides, tutorials, and troubleshooting guides.
- **Testing and Quality Assurance:** Rigorous unit, integration, and end-to-end testing to ensure functionality, stability, and PMBOK compliance.

Explicitly Excluded:

- Development of entirely new document generation capabilities beyond those currently supported.
- Integration with third-party project management tools (future phase).
- Support for non-markdown documentation sources (future phase).
- Major architectural changes to the core RGA system.

Key Deliverables:

- Enhanced Requirements Gathering Agent (RGA) software (v2.1.3).
- Comprehensive documentation (user guide, technical guide, API documentation, validation reports).
- Updated unit and integration tests.
- Deployment package for NPM.

3. Objectives and Success Criteria

Primary Objectives (SMART):

- Deliver a fully functional and tested version of RGA (v2.1.3) by [Date - e.g., November 22, 2024].
- Achieve 95% code coverage through unit and integration tests.
- All generated documents must pass PMBOK 7.0 validation with a score of 90% or higher.
- The new provider selection menu must be user-friendly and intuitive, with a successful usability test demonstrating 100% comprehension by 5 test users.

Secondary Objectives:

- Improve the average context utilization of large language models by 20%.
- Reduce the number of reported bugs by 50% compared to the previous version.

Success Metrics and KPIs:

- Number of successful test cases passed.
- PMBOK validation scores.

- User feedback on the provider selection menu.
- Post-release bug reports.

Acceptance Criteria:

- Successful completion of all unit and integration tests.
- Positive user feedback from usability testing.
- Achievement of PMBOK validation targets.
- Successful deployment of v2.1.3 to NPM.

4. Deliverables

Deliverable	Description	Quality Standard	Schedule/Milestone	Dependencies
RGA v2.1.3 Software	Enhanced RGA software with improved context manager, provider selection menu, and bug fixes.	95% code coverage, successful unit and integration tests, PMBOK 7.0 validation	[Date - e.g., November 15, 2024]	Completion of development and testing phases
User Guide	Comprehensive guide for users on how to install, configure, and use the RGA.	Clear, concise, and easy to understand.	[Date - e.g., November 18, 2024]	Completion of RGA v2.1.3
Technical Guide	Detailed technical documentation explaining the architecture, implementation details, and API specifications of the RGA.	Accurate, complete, and technically sound.	[Date - e.g., November 18, 2024]	Completion of RGA v2.1.3
PMBOK 7.0 Validation Reports	Reports detailing the results of the PMBOK 7.0 validation process, including scores and recommendations for improvement.	Accurate and comprehensive.	[Date - e.g., November 19, 2024]	Completion of validation phase
NPM Deployment Package	Package ready for deployment to the NPM registry.	Adherence to NPM packaging standards.	[Date - e.g., November 22, 2024]	Completion of all deliverables and testing

5. Approach and Methodology

- **Project Management Methodology:** Agile (Scrum or Kanban).
- **Development Approach:** Iterative development with continuous integration and continuous deployment (CI/CD).
- **Quality Assurance Processes:** Unit testing, integration testing, end-to-end testing, code review, PMBOK 7.0 validation.
- **Risk Management Approach:** Proactive risk identification and mitigation planning, regular risk assessment meetings.

6. Assumptions and Constraints

Assumptions:

- Access to necessary AI provider APIs and relevant credentials.
- Availability of adequate testing resources.
- Stable development environment and infrastructure.

Constraints:

- Project timeline: [Number] weeks.
- Budget: [Amount].
- Resource availability: [Specify any limitations].

7. Roles and Responsibilities

Role	Responsibilities
Project Manager	Overall project management, planning, execution, monitoring, and control.
Developers	Software development, testing, and bug fixing.
QA Tester	Testing and validation of the RGA software.
Documentation Specialist	Creation and maintenance of project documentation.
Stakeholders	Providing feedback and approval on deliverables.

8. Communication Protocol

Regular stand-up meetings (daily), sprint reviews (weekly), and stakeholder meetings (bi-weekly) will be held. Communication will primarily be through [Communication tools - e.g., Slack, Microsoft Teams, email]. A project management tool [e.g., Jira, Asana] will be used to track progress and manage tasks.

This Statement of Work serves as a formal agreement outlining the scope, objectives, and deliverables of the Requirements Gathering Agent enhancement project. Approval signatures are required from all stakeholders before project commencement.