Requirements Traceability Matrix

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Description: PMBOK Requirements Traceability Matrix

Requirements Traceability Matrix (RTM) - Requirements Gathering Agent

This RTM traces requirements from their source to verification methods, ensuring comprehensive traceability throughout the project lifecycle.

Requirement ID	Requirement Description	Requirement Type	Priority	Source	Success Criteria	Test Case Reference	Verification Method	Status	Notes
FR-001	Generate PMBOK-compliant Project Charter	Functional	High	Project Charter (README)	Project Charter generated, containing all mandatory PMBOK elements.	TC-001	Automated validation against PMBOK template and checklist.	Complete	

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FR-002	Generate Stakeholder Register	Functional	High	Stakeholder Register (README)	Stakeholder Register generated, containing all identified stakeholders and their information.	TC-002	Manual review and data completeness check.	Complete	

Requirement ID	Requirement Description	Requirement Type	Priority	Source	Success Criteria	Test Case Reference	Verification Method	Status	Notes
FR-003	Generate Scope Management Plan	Functional	High	Scope Management Plan (README)	Scope Management Plan generated, including scope definition, WBS, and verification process.	TC-003	Review against PM-BOK guidelines and completeness check.	In Progress	
FR-004	Integrate with Azure OpenAI	Functional	High	README Architecture.md	Successful API calls to Azure OpenAI with Entra ID authentication.	TC-004	Unit tests for API calls and authentication.	Complete	

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FR-005	Generate JSON output	Functional	High	README	All generated documents are in valid JSON format.	TC-005	Schema validation against pre-defined JSON schema.	Complete	
NF-001	System should be robust and handle errors gracefully	Non-functional	High	README	System handles invalid inputs, API failures, and file access errors without crashing.	TC-006, TC-007	Unit and integration tests for error handling scenarios.	Complete	

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NF-002	System should have a fast response time	Non-functional	Medium	README	Average response time for document generation should be under 60 seconds.	TC-008	Performance testing with various inputs.	In Progress	
NF-003	System should be secure and protect sensitive data	Non-functional	High	README	Secure handling of API keys and user data, compliant with security best practices.	TC-009	Security audit and penetration testing.	Planned	

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BR-001	Reduce manual effort in project documentation	Business	High	README	Reduction in time spent on manual documentation by at least 50%.	TC-010	Time tracking and comparison with manual documentation.	Planned	
BR-002	Improve project documentation quality	Business	High	README	Improved consistency and accuracy of project documentation, as measured by stakeholder feedback.	TC-011	Stakeholder surveys and feedback analysis.	Planned	

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FR-006	Support multiple AI providers (Azure, Google, etc.)	Functional	Medium	README	Successful integration and testing with multiple AI providers.	TC-012, TC-013	Unit tests for each provider integration and switching mechanism.	In Progress	
FR-007	Provide CLI for configuration and execution	Functional	High	README	CLI allows users to specify AI provider, output directory, and other options.	TC-014	Manual testing of CLI commands and options.	Complete	

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FR-008	Comprehensive Project Analysis	Functional	High	README	System accurately identifies and analyzes relevant project files (markdown, JSON, etc.).	TC-015	Unit tests for file analysis and scoring mechanisms.	Complete	
NF-004	System should be scalable to handle large projects	Non-functional	Medium	README	System can handle projects with a large number of files and complex structures.	TC-016	Load testing with simulated large projects.	Planned	

Requirement ID	Requirement Description	Requirement Type	Priority	Source	Success Criteria	Test Case Reference	Verification Method	Status	Notes
BR-003	Improve stakeholder alignment	Business	High	README	Increased stakeholder satisfaction with improved clarity and accessibility of project documentation.	TC-017	Stakeholder feedback and satisfaction surveys.	Planned	

Key:

- **TC-XXX:** Refers to a specific Test Case ID (detailed test cases would be documented separately).

This RTM will be updated regularly throughout the project lifecycle to reflect changes in requirements and their status. The "Notes" column can be used to add additional context or details as needed.