Activity List

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Description: PMBOK Activity List

Requirements Gathering Agent - Activity List

This Activity List outlines the tasks required to complete the Requirements Gathering Agent project. Activities are categorized and linked to relevant Work Breakdown Structure (WBS) components for traceability and management. The level of detail provided is sufficient for planning and tracking progress, while avoiding excessive granularity.

Activity ID	Activity Name	Description	WBS Reference
ACT-001	Project Initiation	Define project goals, objectives, and scope based on the project charter and stakeholder input. Establish project governance and communication plan.	1.1
ACT-002	Requirements Gathering and Analysis	Collect, analyze, and document functional and non-functional requirements from stakeholders, documentation, and the project README. Prioritize requirements.	1.2
ACT-003	System Design	Design the system architecture, including the context manager, AI provider integration, document generation engine, and CLI interface. Select appropriate technologies and frameworks.	2.1
ACT-004	Development: Context Manager	Develop the context management system, including mechanisms for context injection, prioritization, and handling large language models.	2.1.1
ACT-005	Development: AI Provider Integration	Implement integration with Azure OpenAI, Google AI, GitHub AI, and Ollama, ensuring secure authentication and robust error handling.	2.1.2
ACT-006	Development: Document Generation Engine	Develop the document generation engine, including template management, PMBOK compliance checks, and output formatting.	2.1.3
ACT-007	Development: CLI Interface	Develop the command-line interface, including options for document generation, validation, and context management.	2.1.4

Activity ID	Activity Name	Description	WBS Reference
ACT-008	Unit and Integration Testing	Conduct thorough unit and integration testing of all system components to ensure functionality and stability.	3.1
ACT-009	PMBOK Validation and Quality Assurance	Implement PMBOK 7.0 compliance validation and quality assessment features, generating reports and recommendations for improvement.	3.2
ACT-010	Documentation Updates	Update existing project documentation and create new documentation as required, including user guides, API documentation, and implementation guides.	4.1
ACT-011	Build and Deployment	Build the software and deploy it to the chosen platform (e.g., npm).	5.1
ACT-012	User Acceptance Testing (UAT)	Conduct user acceptance testing with stakeholders to ensure the system meets their requirements and expectations.	3.3
ACT-013	Project Closure	Finalize all project deliverables, conduct a post-project review, and archive project documentation.	6.1
ACT-014	Risk Management	Identify, analyze, and mitigate potential project risks throughout the project lifecycle.	1.3
ACT-015	Communication Management	Regularly communicate project status, risks, and issues to stakeholders using the defined communication plan.	1.4
ACT-016	Stakeholder Management	Manage stakeholder expectations and engagement throughout the project lifecycle.	1.5
ACT-017	Configuration Management	Establish and maintain a configuration management system to track changes and versions of the software.	2.2
ACT-018	Issue Tracking and Resolution	Track and resolve any issues that arise during the project lifecycle.	2.3
ACT-019	Performance Monitoring and Optimization	Monitor system performance and identify areas for optimization.	3.4

Activity ID	Activity Name	Description	WBS Reference
ACT-020	Security Considerations	Address and mitigate security risks throughout the development and deployment process.	2.4
ACT-021	Development: Enhanced Context Manager	Develop and integrate the enhanced context manager, including the 3-phase context strategy and model-specific optimization.	2.1.1.1

WBS Reference Key:

- 1.0: Project Initiation
- 1.1: Project Setup
- 1.2: Requirements Management
- 1.3: Risk Management
- 1.4: Communication Management
- 1.5: Stakeholder Management
- 2.0: System Development
- 2.1: System Design and Implementation
- 2.1.1: Context Manager Development
- 2.1.1.1: Enhanced Context Manager Development
- 2.1.2: AI Provider Integration
- 2.1.3: Document Generation Engine Development
- 2.1.4: CLI Development
- 2.2: Configuration Management
- 2.3: Issue Tracking
- 2.4: Security
- 3.0: Testing and Validation
- 3.1: Unit and Integration Testing
- 3.2: PMBOK Validation
- 3.3: User Acceptance Testing
- 3.4: Performance Testing
- 4.0: Documentation
- 4.1: Documentation Updates
- 5.0: Deployment
- 5.1: Build and Deployment
- 6.0: Project Closure
- 6.1: Project Closure Activities

This Activity List serves as a living document and may be updated as the project progresses.