

# Work Breakdown Structure (WBS)

Generated by Requirements Gathering Agent v2.1.2

Category: planning-artifacts

Generated: 2025-06-10T08:16:05.276Z

Description: PMBOK Work Breakdown Structure

---

## Work Breakdown Structure (WBS) for Requirements Gathering Agent

**Introduction:** This Work Breakdown Structure (WBS) outlines all the tasks required to develop and release the Requirements Gathering Agent (RGA) software. The WBS follows a hierarchical decomposition, ensuring all work is accounted for and facilitating project planning, scheduling, and resource allocation. It uses a noun-based naming convention and is organized by major project phases.

1. **Project Management** 1.1 Project Planning 1.1.1 Scope Definition 1.1.2 Schedule Development 1.1.3 Resource Allocation 1.1.4 Risk Management Plan Creation 1.1.5 Communication Plan Creation 1.1.6 Quality Management Plan Creation 1.2 Project Execution 1.2.1 Task Monitoring and Control 1.2.2 Issue Tracking and Resolution 1.2.3 Progress Reporting 1.2.4 Change Management 1.3 Project Closure 1.3.1 Project Documentation Completion 1.3.2 Final Report Generation 1.3.3 Project Sign-off
2. **Requirements Gathering and Analysis** 2.1 Requirements Elicitation 2.1.1 Stakeholder Interviews 2.1.2 Document Review (README, etc.) 2.1.3 Requirements Workshop 2.2 Requirements Analysis 2.2.1 Functional Requirements Definition 2.2.2 Non-Functional Requirements Definition 2.2.3 Requirements Prioritization 2.2.4 Requirements Validation 2.3 Requirements Documentation 2.3.1 Requirements Specification Document Creation 2.3.2 User Stories Creation
3. **System Design** 3.1 Architectural Design 3.1.1 System Architecture Definition 3.1.2 Component Design 3.1.3 Interface Design 3.1.4 Database Design (if applicable) 3.2 Detailed Design 3.2.1 Module Design 3.2.2 Algorithm Design 3.2.3 Data Structure Design 3.2.4 API Design 3.3 Design Documentation 3.3.1 Architectural Design Document Creation 3.3.2 Detailed Design Document Creation
4. **Development** 4.1 Coding 4.1.1 Context Manager Development 4.1.2 AI Provider Integration (OpenAI, Google AI, GitHub AI, Ollama) 4.1.3 Document Generation Engine Development 4.1.4 CLI Development 4.1.5 Testing Framework Implementation 4.2 Unit Testing 4.2.1 Unit Tests for Context Manager 4.2.2 Unit Tests for AI Provider Integration 4.2.3

Unit Tests for Document Generation Engine 4.2.4 Unit Tests for CLI  
4.3 Integration Testing 4.3.1 Integration Tests for entire system 4.4 Code  
Review

- 5. **Testing and Quality Assurance** 5.1 Unit Testing (see 4.2) 5.2 Integration  
Testing (see 4.3) 5.3 System Testing 5.3.1 Functional Testing 5.3.2 Non-  
Functional Testing (Performance, Security, etc.) 5.3.3 User Acceptance  
Testing (UAT) 5.4 Bug Fixing
- 6. **Deployment** 6.1 Build Process 6.1.1 Code Compilation 6.1.2 Package  
Creation (npm package) 6.2 Deployment to npm 6.2.1 Package Upload  
6.2.2 Versioning 6.3 Documentation Updates (README, Changelog)
- 7. **Documentation** 7.1 User Documentation Creation 7.2 API Documenta-  
tion Creation 7.3 Internal Documentation Updates

This WBS provides a comprehensive breakdown of the project. Each work  
package can be further decomposed as needed during project execution to  
achieve greater detail and facilitate more precise planning and tracking. The  
level of detail presented here is sufficient for initial planning purposes.