

# Create Wbs

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## Create WBS Process

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## Create WBS Process

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**Project:** ADPA - Advanced Document Processing & Automation Framework

**Version:** 3.2.0

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### 1. Introduction

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The Work Breakdown Structure (WBS) creation process for the ADPA project outlines a systematic, standards-compliant methodology to break down the complex scope of an enterprise automation framework into manageable, well-defined, and actionable work components. This process aligns with industry best practices (e.g., PMBOK 7th Edition, BABOK v3)

and leverages ADPA's modular and multi-framework architecture to ensure clarity, traceability, and effective project management.

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## 2. Process Overview

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The WBS for ADPA is designed to support the delivery of a modular, AI-powered, enterprise-grade automation and documentation framework. The following steps ensure the WBS is comprehensive, actionable, and tailored to ADPA's unique features and integration requirements.

### Key Steps

#### 1. Define Project Scope Baseline

- Collect and validate scope requirements from the README, roadmap, and standards (BABOK, PMBOK, DMBOK).
- Identify product boundaries, compliance targets, and integration endpoints (e.g., CLI, REST API, Confluence, SharePoint, Adobe).

#### 2. Identify Major Deliverables

- Enumerate primary ADPA components: AI Processing, Document Generation, API Server, CLI, Integration Layer, Admin Interface, Analytics & Reporting, Compliance Modules.
- Include standards compliance deliverables (BABOK, PMBOK, DMBOK), enterprise integrations, and security.

#### 3. Decompose Deliverables Hierarchically

- Break each top-level deliverable into logical subcomponents reflecting ADPA's modular structure (e.g., each integration, AI provider support, testing frameworks).
- Use architectural artifacts (project structure, architecture documentation) for decomposition guidance.

#### 4. Create Work Packages

- Define granular work packages for each leaf node. Each should be implementable, testable, and traceable (e.g., "Implement Google AI Provider Integration," "Develop SharePoint OAuth2 Flow," "Create BABOK Elicitation Template").
- Align work packages with ADPA's extensible and standards-driven philosophy.

#### 5. Validate with Stakeholders

- Review the WBS with key stakeholders: Product Owner, Enterprise Architects, QA/Compliance, and Integration Partners.
- Confirm completeness, mutual exclusivity, and alignment with release roadmap.

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## 3. Decomposition Approach

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### Hierarchical Structure

- **Level 1:** ADPA Project (adpa-enterprise-framework-automation)
- **Level 2:** Major System Domains
  - AI Processing Engine
  - Document Generator
  - REST API Server
  - CLI Interface
  - Integration Layer (e.g., Confluence, SharePoint, Adobe)
  - Admin Web Interface
  - Analytics & Reporting
  - Security & Compliance
- **Level 3:** Sub-Deliverables
  - For example, under Integration Layer:
    - Confluence Integration
    - SharePoint Integration
    - Adobe Document Services
    - Version Control Integration

- Under AI Processing Engine:
    - OpenAI Support
    - Google AI Support
    - GitHub Copilot
    - Ollama Integration
    - Context Management
  - **Level 4:** Work Packages
    - Implementation tasks, configuration, testing, and documentation (e.g., "Develop InDesign API Authentication Module," "Write Jest Unit Tests for Document Generator," "Prepare OpenAPI 3.0 Spec for Standards API").
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## 4. Work Package Guidelines

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### Characteristics

- **Clearly Defined Scope:** Each work package must have a precise, unambiguous description tied to a specific deliverable or sub-component.
- **Measurable Outcomes:** Define acceptance criteria (e.g., "Confluence integration supports OAuth2 and document publishing").
- **Single Responsibility:** Assign each work package to a single owner or team, minimizing dependencies.
- **Appropriate Duration:** Each work package should typically require between 8 and 80 labor hours, suitable for iterative, agile execution.

### Examples (ADPA-Specific):

- Implement Node.js REST API server with TypeSpec-generated OpenAPI documentation.
- Integrate OpenAI GPT-4 and fallback logic in AI Processing Engine.
- Develop CLI command for BABOK-compliant requirements elicitation.
- Create Confluence publishing module with OAuth2 authentication.

- Draft and validate enterprise security configuration for API endpoints.
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## 5. Quality Control

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### Validation Criteria

- **100% Rule Compliance:** All scope elements and deliverables defined in the README, roadmap, and standards references must be represented in the WBS.
  - **Mutually Exclusive Elements:** No overlap or duplication between work packages; each is unique and traceable.
  - **Appropriate Level of Detail:** Decompose only to the level necessary for planning, estimation, and assignment—avoid excessive granularity.
  - **Stakeholder Approval:** Review and sign-off required from all key project stakeholders, including compliance, architecture, and integration leads.
  - **Alignment with Standards:** Ensure all deliverables and work packages adhere to BABOK, PMBOK, and DMBOK (where applicable).
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## 6. Practical Guidance & Project-Specific Considerations

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- **Modularization:** Leverage ADPA's modular directory structure (src/modules, integrations, templates) to inform WBS decomposition.
- **Multi-Framework Support:** Separate work packages for standards-based features (BABOK, PMBOK, DMBOK) to facilitate roadmap tracking.
- **Integration Complexity:** Recognize that enterprise integrations (Confluence, SharePoint, Adobe) may require deeper decomposition

due to authentication, API diversity, and compliance requirements.

- **Testing & Compliance:** Include explicit work packages for test automation (Jest), security validation, and standards compliance verification.
- **Documentation as a Deliverable:** Treat user guides, API docs, and configuration examples as distinct WBS elements to ensure comprehensive deliverables.

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## 7. References

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- ADPA Project README & Roadmap
- Architecture Documentation
- BABOK v3, PMBOK 7th Edition, DMBOK 2.0 Standards
- [GitHub Repository](#)
- [API Documentation](#)

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### Prepared by:

ADPA Project Planning Team

*For use in all WBS creation and project planning activities*