Program Work Breakdown Structure

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Program Work Breakdown Structure (WBS)

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Description: PMBOK Program Work Breakdown Structure

Certainly! Below is a **hierarchical Work Breakdown Structure (WBS)** for the **ADPA - Advanced Document Processing & Automation Framework** project. The WBS is tailored to the context from the README and supporting files, following best practices for modular, standards-compliant enterprise software. Each Level 1 deliverable is further decomposed into Level 2 and Level 3 work packages, aligned with the technical and business scope.

Work Breakdown Structure (WBS)

Project: ADPA - Advanced Document Processing & Automation Framework

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1. Project Management

1.1 Project Planning & Initiation

- 1.1.1 Define scope, objectives, and success criteria
- 1.1.2 Identify stakeholders & establish governance
- 1.1.3 Develop project schedule and timeline
- 1.1.4 Resource planning and allocation

1.2 Standards & Compliance Management

- 1.2.1 Ensure BABOK, PMBOK, DMBOK alignment
- 1.2.2 Regulatory compliance mapping (GDPR, SOX, PCI DSS, etc.)
- 1.2.3 Conduct compliance reviews and audits

1.3 Risk & Quality Management

- 1.3.1 Develop risk management plan
- 1.3.2 Define quality metrics and acceptance criteria
- 1.3.3 Set up monitoring & reporting mechanisms

1.4 Communication & Reporting

- 1.4.1 Stakeholder communication plan
- 1.4.2 Status reporting (internal/external)
- 1.4.3 Documentation and knowledge management

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2. Requirements & Design

2.1 Business Requirements Gathering

- 2.1.1 Conduct stakeholder interviews and workshops
- 2.1.2 Document functional and non-functional requirements
- 2.1.3 Analyze and prioritize requirements

2.2 Standards & Frameworks Analysis

- 2.2.1 BABOK v3 process mapping
- 2.2.2 PMBOK 7th Edition requirements mapping
- 2.2.3 DMBOK 2.0 requirements mapping

2.3 Solution Architecture Design

- 2.3.1 Define overall solution architecture
- 2.3.2 Select technology stack (Node.js, TypeScript, Next.js, etc.)
- 2.3.3 Design modular system components (AI Engine, API, CLI, Integrations)
- 2.3.4 Develop security and compliance architecture

2.4 Technical Specifications

- 2.4.1 Define API interfaces (OpenAPI/TypeSpec)
- 2.4.2 Draft document templates & processing workflows
- 2.4.3 Detail integration specifications (Confluence, SharePoint, Adobe, VCS)
- 2.4.4 Develop data models and storage specifications

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3. Implementation

3.1 Core Platform Development

- 3.1.1 AI Processing Engine (multi-provider orchestration)
- 3.1.2 Document Generator (template-driven, standards-compliant)
- 3.1.3 REST API Server (Express.js, TypeSpec/OpenAPI)
- 3.1.4 CLI Interface (Yargs-based command line tools)
- 3.1.5 Admin Web Interface (Next.js Portal)
- 3.1.6 Analytics & Reporting Module

3.2 Framework Modules Development

- 3.2.1 BABOK v3 module & document templates
- 3.2.2 PMBOK 7th Edition module & document templates
- 3.2.3 DMBOK 2.0 module & document templates

3.3 Integration Layer Implementation

- 3.3.1 Confluence integration
- 3.3.2 SharePoint integration
- 3.3.3 Adobe Document Services integration
- 3.3.4 Version Control System (VCS) integration

3.4 Security & Compliance Implementation

- 3.4.1 Authentication & authorization (OAuth2, SAML, AD)
- 3.4.2 Data privacy controls & encryption
- 3.4.3 Compliance reporting & audit trails

3.5 Testing & Quality Assurance

- 3.5.1 Unit & integration testing (Jest, TypeScript)
- 3.5.2 Performance & load testing
- 3.5.3 End-to-end and user acceptance testing

3.6 Documentation & User Guides

- 3.6.1 Technical documentation (API, architecture, modules)
- 3.6.2 User guides and tutorials (CLI, API, Web)
- 3.6.3 Developer contribution guide

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4. Deployment, Training & Transition

4.1 Deployment Preparation

- 4.1.1 Production environment setup (Docker, Kubernetes, cloud)
- 4.1.2 Configuration management and environment setup
- 4.1.3 Data migration & initial content seeding

4.2 Release Management

- 4.2.1 Build and packaging (npm, Docker)
- 4.2.2 Release candidate validation
- 4.2.3 Production deployment and go-live

4.3 Training & Knowledge Transfer

- 4.3.1 Develop training materials (videos, manuals)
- 4.3.2 Conduct user/admin training sessions
- 4.3.3 Support knowledge base creation

4.4 Post-Go-Live Support & Handover

- 4.4.1 Hypercare and issue resolution
- 4.4.2 Ongoing support handover to operations
- 4.4.3 Project closure and lessons learned

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5. Portfolio/Program Management (if applicable)

5.1 Stakeholder Analysis & Management

- 5.1.1 Portfolio/program-level stakeholder mapping
- 5.1.2 Cross-project reporting & communication

5.2 Multi-project Coordination

- 5.2.1 Integration with enterprise PM tools (Jira, Azure DevOps)
- 5.2.2 Resource and schedule harmonization

Notes:

- Each Level 2/3 element can be further decomposed into actionable tasks or tickets as needed.
- The WBS supports both a single-project (ADPA product) and program/portfolio context (multi-project, enterprise-wide deployments).
- Deliverable-based structure aligns with PMBOK and BABOK best practices.

This WBS provides a comprehensive, hierarchical view to guide detailed planning, estimation, and execution of the ADPA framework

project.
