Project Statement Of Work

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Project Statement of Work

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Category: basic-docs
Generated: 2025-07-14T21:03:47.791Z
Description: Project Statement of Work detailing scope, deliverables, and acceptance criteria

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Projectstatementofwork

Project Title:
ADPA – Advanced Document Processing & Automation Framework

Version:
3.2.0

Prepared For:
Enterprise, Consulting, and Digital Transformation Teams

Prepared By:
ADPA Core Team

GitHub Repository

Date:
July 2025

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1. Project Purpose and Scope

1.1 Purpose

The ADPA (Advanced Document Processing & Automation) Framework is an open, modular, and standards-compliant automation platform designed to streamline, automate, and elevate enterprise documentation, project management, and business analysis processes. By leveraging multi-provider AI, advanced context management, and integration with leading business platforms, ADPA empowers organizations to generate, manage, and govern professional documentation at scale while ensuring compliance with industry best practices.

1.2 Scope

- **Automated generation of business analysis and project management documentation** (BABOK v3, PMBOK 7th Edition, DMBOK 2.0)
- **Integration with enterprise platforms:** Atlassian Confluence, Microsoft SharePoint, Adobe Document Services
- **API-first architecture:** Production-ready REST API, CLI, and web interface
- **AI-powered workflows:** OpenAI, Google AI, GitHub Copilot, Ollama (local)
- **Enterprise security and regulatory compliance:** GDPR, SOX, PCI DSS, Basel III, FINRA, HIPAA, FedRAMP
- **Designed for large-scale, Fortune 500 deployments**

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2. Project Objectives

- **Accelerate Documentation:** Automate the generation of standards-based documents for business analysis, project management, and data governance.
- **Increase Consistency & Compliance:** Enforce organizational standards, policies, and regulatory requirements through template-driven workflows and validation.
- **Integrate Seamlessly:** Natively connect with leading enterprise systems for publishing, document management, and workflow automation.
- **Enable AI Agility:** Support multiple AI providers with intelligent context management and failover for robust, reliable automation.
- **Scale with Confidence:** Provide a secure, scalable, and extensible platform suitable for complex enterprise environments.

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3. Deliverables

3.1 Core Framework

- **Node.js/TypeScript Codebase:** Source code for CLI, REST API, and admin interface
- **Production API Server:** Express.js server with OpenAPI 3.0 (TypeSpec-generated) specification
- **CLI Tooling:** Yargs-based command-line utilities for document generation, integration, and management
- **Admin Web Portal:** Next.js React interface for managing users, projects, templates, and analytics

3.2 Documentation Generation

- **BABOK v3 Artifacts:** Requirements elicitation, stakeholder analysis, business analysis planning, solution validation
- **PMBOK 7th Edition Documents:** Project charters, risk/quality/resource/schedule/cost management plans
- **DMBOK 2.0 Outputs:** Data governance, data architecture, master data management (in progress)

3.3 AI Orchestration

- **Multi-Provider AI Engine:** Pluggable architecture for OpenAI, Google Gemini, GitHub Copilot, Ollama, Azure OpenAI
- **Context Manager:** Smart context injection to enhance AI output precision and relevance

3.4 Enterprise Integrations

- **Confluence Publisher:** Automated publishing to Atlassian Confluence spaces
- **SharePoint Integration:** Secure, Azure AD-authenticated document upload and metadata management
- **Adobe Document Services:** Professional PDF and advanced creative output (InDesign, Illustrator, Photoshop APIs)

3.5 Security & Compliance

- **Authentication & Authorization:** OAuth2, Active Directory, SAML support
- **Regulatory Compliance:** Basel III, MiFID II, GDPR, SOX, FINRA, PCI DSS, HIPAA, FedRAMP, ISO 27001

3.6 DevOps & Deployment

- **Containerization:** Docker images (in progress)
- **Kubernetes Templates:** Helm charts and deployment guides (roadmap)
- **CI/CD Integration:** Scripts and documentation for automated testing and deployment

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4. Project Requirements

4.1 Functional Requirements

- Generate, validate, and export documentation per selected framework and template
- Support for multiple AI providers with fallback and failover logic
- REST API endpoints for all major operations (document generation, template management, integration actions)
- CLI for batch processing and automation scripting
- Role-based access control and user/team management (admin portal)
- Integration with Confluence, SharePoint, Adobe, Jira, Azure DevOps, and version control platforms

4.2 Non-Functional Requirements

- **Performance:** Horizontal scalability, caching (Redis), efficient processing pipelines
- **Security:** Encrypted secrets management, rate limiting, CORS, security headers via Helmet
- **Reliability:** Automated testing (Jest), integration and performance test suites, health monitoring
- **Extensibility:** Modular plugin architecture for AI, templates, and integrations
- **Maintainability:** TypeScript strict mode, ESLint/Prettier, conventional commits

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5. Project Approach

5.1 Methodology

- **API-First Development:** TypeSpec/OpenAPI-driven contract design
- **Modular Implementation:** Feature isolation for maintainability and extensibility
- **Iterative Delivery:** Agile sprints with regular releases and contributions welcome
- **Documentation-Driven:** Comprehensive docs, usage guides, and admin manuals

5.2 Phases & Milestones

Phase	Timeline	Milestones
BABOK/PMBOK Implementation	Q1 2025	Full support for business analysis and project management standards
Multi-Provider AI Integration	Q1 2025	OpenAI, Google AI, Copilot, Ollama support
Confluence & SharePoint Integration	Q1 2025	Secure, production-ready publishing
DMBOK/Adobe Enhancement	Q2 2025	Data management artifacts, advanced PDF & creative output (Adobe APIs)
Containerization & DevOps	Q2 2025	Docker images, Kubernetes templates, CI/CD
Enterprise SSO & Collaboration	Q3 2025	SSO, advanced workflow automation, real-time collaboration, mobile support

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6. Acceptance Criteria

- All core features and integrations function per documentation under load and in enterprise scenarios
- Standards-compliant document generation (BABOK v3, PMBOK 7, DMBOK 2.0) validated by test suites and pilot users
- REST API passes comprehensive integration and security tests
- AI provider failover works as specified

- Confluence and SharePoint integrations tested in real-world environments
- Security, compliance, and audit requirements met for intended industries

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7. Project Organization

7.1 Team Roles

- **Product Owner:** Sets direction, ensures standards compliance
- **Lead Architect:** Oversees modular architecture and integrations
- **Backend Engineers:** Develop API, CLI, and core document engine
- **Frontend Engineers:** Build admin portal and user interfaces
- **AI Specialists:** Integrate and optimize multi-provider AI orchestration
- **QA & Compliance:** Lead testing, ensure security and regulatory adherence
- **DevOps:** Manage deployment, containerization, and CI/CD pipelines

7.2 Stakeholders

- Enterprise transformation leads
- Business analysts and project managers
- IT and compliance teams

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8. Dependencies & Risks

8.1 Key Dependencies

- Node.js (>=18), TypeScript (>=5.7)
- Supported AI providers (OpenAI, Google, Copilot, Ollama, Azure)
- Access to Atlassian Confluence, Microsoft SharePoint, and Adobe APIs (for integrations)

- Enterprise authentication systems (AD, SAML, OAuth2)
- Docker/Kubernetes for deployment (roadmap)

8.2 Risks & Mitigations

- **AI provider service changes:** Abstracted provider layer and rapid patching
- **Compliance evolution:** Continuous monitoring of standards, modular update strategy
- **Integration API changes:** Versioned integration modules and automated regression tests
- **Enterprise security requirements:** Regular audits, security reviews, and patch management

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9. Practical Guidance & Unique Value

- **Unified Documentation Automation:** Industry's only open-source, standards-based solution covering BABOK, PMBOK, and DMBOK in one extensible platform.
- **AI Agility:** Choose and switch between top AI providers, including local (Ollama), for performance, privacy, or cost reasons.
- **Enterprise-Ready Integrations:** Out-of-the-box connectors for Confluence, SharePoint, and Adobe Creative Cloud.
- **API-First and Modular:** Build custom workflows or extend the framework easily for your organization's needs.
- **Security and Compliance Focus:** Built for heavily regulated industries with advanced authentication and auditing.
- **Active Roadmap and Community:** Ongoing enhancements, with clear milestones and open invitation for contribution.

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10. Approval & Change Management

- All deliverables subject to stakeholder review and sign-off at defined phase gates.

- Change requests will follow an agile, documented process, with impact assessment and versioned releases.

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11. Reference Documentation

- GitHub Repository & Wiki
- npm Package
- Contributing Guide
- MIT License

This Statement of Work forms the baseline for ADPA project execution, delivery, and ongoing evolution.
For questions, support, or enterprise consulting, contact menno.drescher@gmail.com.

Built with ❤️ for Enterprise Automation
