Project KickOff Preprations CheckList

Source File: generated-documents\planning\Project-KickOff-Preprations-

CheckList.md

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Project KickOff Preparations Checklist

Generated by adpa-enterprise-framework-automation v3.2.0

Category: planning-artifacts

Generated: 2025-07-14T21:16:24.518Z

Description: Checklist for project kickoff preparations, including scope,

stakeholders, resources, and readiness.

Project KickOff Preparations Checklist for === PROJECT README ===

ADPA - Advanced Document Processing & Automation

Framework

```
npm package 3.2.0
node >=18.0.0
TypeScript 5.7.2
License MIT
API-First TypeSpec
```

Previously known as Requirements Gathering Agent (RGA)

ADPA is a modular, standards-compliant enterprise automation framework for Al-powered document generation, project management, and business analysis. Built with TypeScript and Node.js, it provides both CLI and REST API interfaces for generating professional documentation following industry standards including BABOK v3, PMBOK 7th Edition, and DMBOK 2.0.



🖋 Key Features

Enterprise Standards Compliance

- **BABOK v3** Business Analysis Body of Knowledge automation
- **PMBOK 7th Edition** Project Management documentation generation
- **DMBOK 2.0** Data Management frameworks (in progress)
- **m** Multi-Framework Integration Cross-reference and unified reporting

Al-Powered Generation

• 🖶 Multi-Provider Al Support - OpenAl, Google Al, GitHub Copilot, Ollama

- Intelligent Context Management Smart context injection and processing
- Professional Document Generation Standards-compliant business documents
- Automated Workflows End-to-end document generation pipelines

Enterprise Integration

- — Production-Ready REST API TypeSpec-generated OpenAPI specifications
- Confluence Integration Direct publishing to Atlassian
 Confluence
- **SharePoint Integration** Microsoft SharePoint document management
- Adobe Document Services Professional PDF generation and document intelligence
- **Q** \ CLI & Web Interface Multiple interaction modes

Compliance & Security

- **Enterprise-Grade Security** Production-ready authentication and authorization
- Regulatory Compliance Basel III, MiFID II, GDPR, SOX, FINRA, PCI DSS
- Fortune 500 Ready Designed for large-scale enterprise deployments
- **API-First Architecture** Scalable microservices design

Installation

NPM Package (Recommended)

npm install -g adpa-enterprise-framework-automation

From Source

```
git clone https://github.com/mdresch/requirements-gathering-agent.git
cd requirements-gathering-agent
npm install
npm run build
```

Docker (Coming Soon)

docker pull adpa/enterprise-framework:latest



© Quick Start

1. CLI Usage

```
# Generate project documentation
adpa generate --key project-charter --output ./docs
# Start the API server
adpa-api
# Initialize Confluence integration
adpa confluence init
# Initialize SharePoint integration
adpa sharepoint init
```

2. API Server

```
# Start the Express.js API server
npm run api:start
```

```
# Access API documentation
open http://localhost:3000/api-docs
```

3. Admin Web Interface

```
# Install and start the admin interface
npm run admin:setup
npm run admin:serve
# Access at http://localhost:3001
```

K Configuration

Environment Setup

```
# Copy environment template
cp .env.example .env
# Configure your AI providers
OPENAI_API_KEY=your_openai_key
GOOGLE_AI_API_KEY=your_google_ai_key
AZURE_OPENAI_ENDPOINT=your_azure_endpoint
```

Al Provider Configuration

ADPA supports multiple AI providers with automatic failover:

```
// Supported providers
- OpenAI (GPT-4, GPT-3.5)
- Google AI (Gemini Pro, Gemini Pro Vision)
- GitHub Copilot
- Ollama (Local models)
- Azure OpenAI
```

Framework Support

BABOK v3 (Business Analysis)

Production Ready

- Requirements Elicitation & Analysis
- Stakeholder Analysis & Management
- Business Analysis Planning
- Solution Assessment & Validation
- Enterprise Analysis

PMBOK 7th Edition (Project Management)

Implemented

- Project Charter & Scope Management
- Stakeholder Management Plans
- Risk & Quality Management
- Resource & Schedule Management
- Cost Management & Control

DMBOK 2.0 (Data Management)

In Progress

- Data Governance Frameworks
- Data Architecture & Quality
- Master Data Management
- Data Security & Privacy

Architecture

Core Components

```
ADPA/

├─ ♠ AI Processing Engine # Multi-provider AI orchestration

├─ ♠ Document Generator # Template-based document creation

├─ ♠ REST API Server # Express.js with TypeSpec specs

├─ ♠ CLI Interface # Yargs-based command line tools

├─ ♥ Integration Layer # Adobe, Confluence, SharePoint, VCS

├─ ▓ Admin Interface # Next.js web management portal

└─ ♠ Analytics & Reporting # Usage metrics and insights
```

Technology Stack

- **Backend**: Node.js 18+, TypeScript 5.7+, Express.js
- Al Integration: OpenAl, Google Al, GitHub Copilot, Ollama
- API: TypeSpec, OpenAPI 3.0, Swagger UI
- Frontend: Next.js 14, React 18, Tailwind CSS
- Database: JSON-based configuration, extensible to SQL/NoSQL
- **Testing**: Jest, TypeScript, comprehensive test coverage

Usage Examples

Document Generation

```
# Generate business case document
adpa generate --key business-case --format markdown

# Generate complete project charter
adpa generate --category project-charter --output ./project-docs

# Generate stakeholder analysis
adpa generate --key stakeholder-analysis --format json
```

API Usage

```
// REST API endpoints
POST /api/v1/generate # Generate documents
```

```
GET /api/v1/templates # List available templates

POST /api/v1/confluence/publish # Publish to Confluence

POST /api/v1/sharepoint/upload # Upload to SharePoint

GET /api/v1/frameworks # List supported frameworks
```

Integration Examples

```
# Adobe Document Services integration
npm run adobe:setup
                                         # Configure Adobe credentials
npm run adobe:demo-generation
                                        # Run document generation demo
npm run adobe:example-basic
                                        # Basic PDF generation example
# Confluence integration
adpa confluence oauth2 login
adpa confluence publish --document ./docs/project-charter.md
# SharePoint integration
adpa sharepoint oauth2 login
adpa sharepoint upload --folder "Project Documents" --file ./docs/
# Version control integration
adpa vcs commit --message "Generated project documentation"
adpa vcs push --remote origin
```

🥕 Testing

```
# Run all tests
npm test

# Test specific providers
npm run test:azure
npm run test:github
npm run test:ollama

# Performance testing
npm run test:performance
```

Integration testing npm run test:integration



📋 Enterprise Features

Compliance Standards

- Financial: Basel III, MiFID II, FINRA, CFTC, FCA, BaFin
- Security: GDPR, SOX, PCI DSS, ISO 27001, ISO 9001
- **Industry**: Healthcare (HIPAA), Government (FedRAMP)

Enterprise Integration

- Identity Management: Active Directory, SAML, OAuth2
- Document Management: SharePoint, Confluence, FileNet
- Project Management: Jira, Azure DevOps, ServiceNow
- Version Control: GitHub Enterprise, GitLab, Azure DevOps

Scalability & Performance

- Horizontal Scaling: Microservices architecture
- **Caching**: Redis support for high-performance scenarios
- **Load Balancing**: Production-ready deployment patterns
- Monitoring: Built-in metrics and health checks



Project Structure

```
requirements-gathering-agent/
                                   # TypeScript source code
       # Main CLI entry point
       server.ts
                                  # Express.js API server
                                  # Core modules
       modules/
                                 # AI provider integrations
         - documentGenerator/
                                 # Document generation engine
         - confluence/
                                 # Confluence integration
```

Contributing

We welcome contributions! Please see our **Contributing Guide** for details.

Development Setup

```
git clone https://github.com/mdresch/requirements-gathering-agent.git
cd requirements-gathering-agent
npm install
npm run dev  # Start development mode
npm run build  # Build for production
npm test  # Run tests
```

Code Standards

- TypeScript: Strict mode enabled
- **ESLint**: Airbnb configuration
- **Prettier**: Code formatting
- **Jest**: Unit and integration testing
- Conventional Commits: Commit message standards



- ■ BABOK v3 full implementation
- PMBOK 7th Edition compliance
- Multi-provider Al support
- Confluence & SharePoint integration

Q2 2025

- MBOK 2.0 implementation
- Docker containerization
- S Kubernetes deployment templates
- 🔁 Advanced analytics dashboard

Q3 2025

- **[**] Enterprise SSO integration
- Advanced workflow automation
- Real-time collaboration features
- 📋 Mobile application support

Support & Documentation

- **[III Full Documentation**: GitHub Wiki
- **\(\)** Issue Tracking: <u>GitHub Issues</u>
- Community: GitHub Discussions
- Enterprise Support: Contact Us

License

This project is licensed under the <u>MIT License</u> - see the LICENSE file for details.

Acknowledgments

- Industry Standards: PMI (PMBOK), IIBA (BABOK), DAMA (DMBOK)
- Al Providers: OpenAl, Google, GitHub, Ollama community

- Enterprise Partners: Fortune 500 beta testing organizations
- **Open Source Community**: Contributors and feedback providers

Built with for **Enterprise Automation**

Star us on GitHub | npm Package | Documentation

=== PROJECT METADATA ===

Name: adpa-enterprise-framework-automation

Description: Modular, standards-compliant Node.js/TypeScript automation framework for enterprise requirements, project, and data management. Provides CLI and API for BABOK v3, PMBOK 7th Edition, and DMBOK 2.0 (in progress). Production-ready Express.js API with TypeSpec architecture. Designed for secure, scalable, and maintainable enterprise automation.

Version: 3.2.0

Dependencies: @adobe/pdfservices-node-sdk, @azure-rest/ai-inference, @azure/identity, @azure/msal-node, @azure/openai, @google/generative-ai, @microsoft/microsoft-graph-client, axios, bcryptjs, compression, cors, dotenv, express, express-rate-limit, express-validator, express-winston, form-data, glob, helmet, joi, jsonwebtoken, morgan, multer, node-fetch, openai, swagger-ui-express, ts-node, uuid, winston, yargs, zod

Dependencies: @jest/globals, Dev @redocly/cli, @types/bcryptis, @types/compression, @types/cors, @types/glob, @types/express, @types/jest, @types/jsonwebtoken, @types/morgan, @types/multer, @types/node, @types/node-fetch, @types/swagger-ui-express, @types/uuid, @typespec/compiler, @typespec/http, @typespec/jsonschema, @typespec/openapi3, @typespec/rest, ajv, jest, rimraf, ts-jest, typescript, webpack-cli

Available Scripts: build, copy-configs, start, api:start, dev, clean, test, test:providers, test:performance, test:azure, test:github, test:ollama, test:failover, test:unit, prepublishOnly, admin:install, admin:dev, admin:build, admin:start, admin:setup, admin:serve, confluence:init, confluence:test, confluence:oauth2:login, confluence:oauth2:status, confluence:oauth2:debug, confluence:publish, confluence:status,

sharepoint:init, sharepoint:test, sharepoint:oauth2:login, sharepoint:oauth2:status, sharepoint:oauth2:debug, sharepoint:publish, sharepoint:status, api:compile, api:watch, api:format, api:lint, api:docs, api:serve-docs, api:demo, api:server, babok:generate, pmbok:generate, dmbok:generate, framework:multi

=== PHASE-2-IMPLEMENTATION-GUIDE.MD (documentation) ===

Path: docs\ADOBE\PHASE-2-IMPLEMENTATION-GUIDE.md

Relevance Score: 95

Adobe Creative Suite Phase 2 Implementation Guide

Date: July 8, 2025

Status: READY FOR IMPLEMENTATION

Prerequisites: Phase 1 Complete (58 PDFs generated successfully)

© Phase 2 Objectives

Transform our successful PDF generation pipeline into a premium Adobe Creative Suite presentation layer that delivers:

- Professional InDesign layouts with custom branding
- Automated data visualizations using Illustrator API
- Enhanced image processing with Photoshop API
- Template-driven document generation with consistent branding

Technical Architecture for Phase 2

Current State (Phase 1)

Markdown → Puppeteer → Professional PDF —— Professional styling

```
Corporate typography
├── Metadata and attribution
└── Print-ready output
```

Target State (Phase 2) 6

```
Markdown → Content Analysis → Template Selection → Adobe Creative API
InDesign Server (Layout & Typography)
├── Illustrator API (Charts & Infographics)
Photoshop API (Image Enhancement)
└── Document Generation (Template Processing)
```

Implementation Milestones

Milestone 1: Adobe Creative SDK Setup (Priority 1)

1.1 Authentication & Credentials

Files to Create:

- src/adobe/creative-suite/authenticator.ts
- src/adobe/creative-suite/config.ts
- .env.adobe.creative

Implementation Steps:

1. Adobe Creative SDK Registration

```
# Register for Adobe Creative SDK
# Obtain API keys for:
# - InDesign Server API
# - Illustrator API
# - Photoshop API
# - Document Generation API
```

2. Authentication Setup

```
// src/adobe/creative-suite/authenticator.ts
export class CreativeSuiteAuthenticator {
  private clientId: string;
  private clientSecret: string;

async authenticate(): Promise<string> {
    // Implement OAuth 2.0 flow for Creative Suite APIs
  }
}
```

... [truncated]

=== ARCHITECTURE.MD (development) ===

Path: docs\ARCHITECTURE.md

Relevance Score: 95

Requirements Gathering Agent - Architecture Documentation

Overview

The Requirements Gathering Agent is an Al-driven system designed to automate and enhance the requirements gathering process for software projects. It leverages multiple Al providers and context management techniques to generate comprehensive project documentation, user stories, and strategic planning artifacts.

System Architecture

Core Components

1. Context Management System

- Context Manager: Central component for managing project context and Al interactions
- Provider Abstraction: Support for multiple AI providers (OpenAI, Google AI, GitHub Copilot, Ollama)
- Context Injection: Direct context injection capabilities for efficient Al processing

2. Al Provider Integration

- Multi-Provider Support: Flexible architecture supporting various Al services
- **Provider Synchronization**: Coordinated Al provider management
- Fallback Mechanisms: Robust handling of provider failures

3. Document Generation Engine

- **Template-Based Generation**: Structured document creation using predefined templates
- PMBOK Compliance: Project management artifacts following PMBOK guidelines
- Automated Workflows: End-to-end document generation pipelines

4. CLI Interface

- **Command-Line Tools**: cli.ts and cli-main.ts for system interaction
- **Batch Processing**: Support for bulk document generation
- **Configuration Management**: Flexible configuration options

Technology Stack

Core Technologies

- TypeScript: Primary development language for type safety and maintainability
- **Node.js**: Runtime environment for server-side execution

• **Jest**: Testing framework for unit and integration tests

Al Integration

- OpenAl API: GPT models for text generation and analysis
- Google AI: Gemini models for alternative AI processing
- **GitHub Copilot**: Code generation and assistance
- Ollama:
 - ... [truncated]

=== API-TESTING-COMPREHENSIVE-SUMMARY.MD (development) ===

Path: docs\AZURE\API-TESTING-COMPREHENSIVE-SUMMARY.md

Relevance Score: 95

ADPA API Testing Comprehensive Summary

Test Session Report - June 22, 2025

© TESTING OVERVIEW

Duration: 1 hour testing session

API Server: Express.js with TypeScript

Port: 3001

Environment: Development

Authentication: API Key & JWT Support

SUCCESSFUL TESTS

- 1. **Health Endpoints** ALL PASSED ✓
 - Main Health Check: GET /api/v1/health
 - Returns comprehensive system status

- ✓ Includes memory usage, uptime, version info
- Proper JSON formatting
- **Readiness Check:** GET /api/v1/health/ready
 - Returns ready status with timestamp
 - Quick response time

2. Authentication & Security - ALL PASSED ✓

- API Key Authentication: X-API-Key: dev-api-key-123
 - Valid API key grants access
 - ✓ Invalid API key rejected with proper error
 - ✓ Missing API key prompts authentication required
- Security Headers & Middleware:
 - Helmet security middleware active
 - CORS properly configured
 - Rate limiting configured (no issues during testing)

3. Templates API - ALL PASSED ✓

- **Template Listing:** GET /api/v1/templates
 - Returns empty list initially (expected)
 - Proper pagination structure
- **Template Creation:** POST /api/v1/templates
 - MAJOR SUCCESS: Created comprehensive BABOK
 Requirements Elicitation Template
 - Template ID: ca8d4758-03c5-4110-84a7-2f5bcd318539
 - Validation working correctly
 - Rich template with variables and layout configuration
- **Template Retrieval:** GET /api/v1/templates/{id}
 - Proper GUID validation

• Returns 404 for non-existent templates (expected)

4. Documents API - ALL PASSED ✓

- **Document Jobs Listing:** GET /api/v1/documents/jobs
 - Returns proper pagination structure
 - Authentication required and working
- **Document Conversion:** POST /api/v1/documents/convert
 - MAJOR SUCCESS: Ge

... [truncated]

=== AZURE-PORTAL-API-CENTER-SETUP-GUIDE.MD (primary) === Path: docs\AZURE\AZURE-PORTAL-API-CENTER-SETUP-GUIDE.md Relevance Score: 95

Azure Portal API Center Setup Guide

Standards Compliance & Deviation Analysis API

® Portal-Based Deployment Strategy

Using the Azure Portal will help resolve subscription ID issues and provide a visual approach to API Center setup.

Step 1: Access Azure Portal

Navigate to Azure API Center

- 1. Open: Azure Portal
- 2. **Search**: "API Center" in the top search bar
- 3. **Select**: "API Centers" from the results

Verify Subscription Access

- Check: Which subscriptions you can see in the portal
- **Confirm**: The correct subscription containing your resources
- **Note**: The actual subscription ID for CLI alignment

Step 2: Create/Verify API Center Instance

Option A: Create New API Center

If svc-api-center doesn't exist:

- 1. Click: "Create API Center"
- 2. **Subscription**: Select the correct active subscription
- 3. Resource Group:
 - Existing: rg-api-center (if exists)
 - **New**: Create rg-api-center
- 4. **API Center Name**: svc-api-center
- 5. **Region**: **West Europe** (westeu)
- 6. **Pricing Tier**: Start with Standard
- 7. **Click**: "Review + Create" → "Create"

Option B: Use Existing API Center

If it already exists:

- 1. **Navigate**: to existing svc-api-center
- 2. **Note**: Subscription ID and Resource Group (rg-api-center)
- 3. **Verify**: Access and permissions

Step 3: Create APIs via Portal

3.1 Create Echo API

- 1. **Navigate**: to your svc-api-center API Center instance
- 2. Click: "APIs" in the left menu
- 3. Click: "Create API"
- 4. Fill Details:
 - o **API ID**: echo-api
 - o Title: Echo API
 - Type: REST
 - **Description**: Simple echo API for testing
- 5. Click: "Create"

3.2 Create Standards Compliance API

- 1. Click: "Create API" again
- 2. Fill Details:
 - **APIID**: standards-compliance-api
 - o Title: `Standards Compliance & Devia
 - ... [truncated]

=== AZURE-PORTAL-API-REGISTRATION-GUIDE.MD (development) ===

Path: docs\AZURE\AZURE-PORTAL-API-REGISTRATION-GUIDE.md

Relevance Score: 95

Azure Portal API Registration Guide

Manual API Center Setup - No CLI Required



The Azure Portal approach bypasses all CLI subscription issues and gives you immediate visual results - perfect for demonstrating to PMI leadership!

Step 1: Access Azure Portal

Navigate to API Centers

- 1. Open: Azure Portal
- 2. **Sign in** with your Azure account
- 3. **Search**: "API Center" in the top search bar
- 4. **Select**: "API Centers" from the dropdown

Find Your API Center

- Look for: svc-api-center in rg-api-center
- **Or**: Create new if it doesn't exist

Step 2: Register Your APIs in Portal

2.1 Register Echo API

- 1. **Navigate**: to your API Center (svc-api-center)
- 2. Click: "APIs" in the left navigation menu
- 3. Click: "Register API" or "Add API" button
- 4. Fill in the form:

```
API Name: Echo API
API ID: echo-api
Type: REST
Description: Simple echo API for testing Azure API Center function
Version: 1.0
```

5. Click: "Register" or "Create"

2.2 Register Standards Compliance API

- 1. Click: "Register API" again
- 2. Fill in the form:

```
API Name: Standards Compliance & Deviation Analysis API
API ID: standards-compliance-api
Type: REST
Description: PMI PMBOK and BABOK standards compliance analysis wi
Version: 1.0
Tags: pmi, pmbok, babok, compliance, governance, standards
```

3. Click: "Register" or "Create"

Step 3: Add API Specifications

Upload OpenAPI Specification

- 1. **Select**: your standards-compliance-api from the list
- 2. Click: "API definitions" or "Specifications" tab
- 3. Click: "Add definition" or "Upload specification"
- 4. **Choose**: "OpenAPI" as the specification type
- 5. Upload method options:

**Option

... [truncated]

=== BABOK-ENTERPRISE-DEMONSTRATION-GUIDE.MD (documentation)

===

Path: docs\BABOK\BABOK-ENTERPRISE-DEMONSTRATION-GUIDE.md

Relevance Score: 95



Step-by-Step Guide to Professional Business Analysis Automation

DEMONSTRATION OVERVIEW

This guide demonstrates how the ADPA API delivers enterprise-grade BABOK v3 compliant business analysis consulting capabilities, suitable for Fortune 500 digital transformation projects.



🖋 STEP 1: API SERVER INITIALIZATION

1.1 Start the Enterprise API Server

Navigate to project directory cd C:\Users\menno\Source\Repos\requirements-gathering-agent

Build the production-ready API npm run api:build

Start the enterprise API server npm run api:server

Expected Output:

🚀 ADPA API Server running in development mode

✓ Server listening on port 3001

API Documentation available at http://localhost:3001/api-docs

Health check available at http://localhost:3001/api/v1/health

Development mode - enhanced logging and debugging enabled

1.2 Verify API Health & Capabilities

```
curl http://localhost:3001/api/v1/health
```

Enterprise-Grade Response:

```
{
   "status": "healthy",
   "timestamp": "2025-06-22T13:30:00.000Z",
   "version": "2.2.0",
   "environment": "development",
   "uptime": 45.2,
   "memory": {"used": 12, "total": 14, "external": 2},
   "node": "v20.18.2"
}
```

STEP 2: ENTERPRISE TEMPLATECREATION

2.1 Create BABOK v3 Requirements Elicitation Template

File: enterprise-babok-template.json

```
"name": "BABOK v3 Enterprise Requirements Elicitation Framework",
  "description": "Comprehensive BABOK v3 compliant template for enterp
  "category": "enterprise-business-analysis",
  "tags": ["babok-v3", "requirements-elicitation", "enterprise", "stak
  "templateData": {
      "content": "# BABOK v3 Enterpri
      ... [truncated]

=== COLLABORATION-TOOLS-ROADMAP.MD (planning) ===
Path: docs\COLLABORATION-TOOLS-ROADMAP.md
```

```
Relevance Score: 95
# Collaboration Tools Development Roadmap
## Overview
This document outlines the roadmap for implementing multi-user collabo
## Current Capabilities
- ✓ **Single-user CLI interface**: Full functionality for individual
- ✓ **RESTful API**: Multi-client architecture ready
- ☑ **Authentication**: Bearer token system implemented
- ☑ **Document Management**: Template and output management
- ☑ **Standards Compliance**: Individual project analysis
## Collaboration Features Architecture
### Multi-User Management System
#### User Roles & Permissions
```typescript
interface UserRole {
 id: string;
 name: 'admin' | 'project_manager' | 'business_analyst' | 'stakeholde
 permissions: Permission[];
}
interface Permission {
resource: 'projects' | 'documents' | 'standards' | 'adobe' | 'users'
 actions: ('create' | 'read' | 'update' | 'delete' | 'approve')[];
}
```

#### **Team Management**

```
interface Team {
 id: string;
 name: string;
 description: string;
 members: TeamMember[];
 projects: string[];
 createdAt: Date;
 updatedAt: Date;
```

```
interface TeamMember {
 userId: string;
 role: UserRole;
 joinedAt: Date;
 permissions: Permission[];
}
```

#### **Real-time Collaboration Features**

#### 1. Concurrent Document Editing

- Real-time Updates: WebSocket-based live collaboration
- Conflict Resolution: Operational transformation for concurrent edits
- Version Control: Document versioning with merge capabilities
- **Change Tracking**: Author attribution and change history

#### 2. Project Sharing & Permissions

- Project Access Control: Role-based access to projects
- **Sharing Mechanisms**: Invite links and email notifications
- **Permission Management**: Granular control over project actions
- Audit Trail: Complete history of project access and changes

#### 3. Approval Workflows

```
... [truncated]

=== IMPLEMENTATION-GUIDE-PROVIDER-CHOICE-MENU.MD
(documentation) ===

Path: docs\implementation-guide-provider-choice-menu.md

Relevance Score: 95
```

## Interactive AI Provider Selection **Menu - Implementation Guide**

**Document Version: 1.0** Created: December 2024

Last Updated: December 2024

**Target Audience:** Developers, Technical Leads, Product Managers

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- 8. Error Handling & Validation
- 9. <u>Testing Strategy</u>
- 10. Migration Guide
- 11. Best Practices
- 12. <u>Troubleshooting</u>



### Overview

This guide provides comprehensive documentation for implementing an interactive choice menu that allows users to select an Al provider before running the Requirements Gathering Agent. The feature enhances user experience by providing a visual selection interface instead of requiring manual environment configuration.



- **Simplify Provider Selection**: Replace manual .env configuration with an interactive menu
- **Improve User Experience**: Provide clear provider options with descriptions and setup guidance
- Maintain Existing Functionality: Preserve current provider detection and fallback mechanisms
- Enable Dynamic Switching: Allow users to change providers without restarting the application

## Key Features

- Interactive CLI-based provider selection menu
- Real-time provider availability detection
- Configuration validation before selection
- Automatic .env file generation/update
- Provider-specific setup guidance
- Fallback to current behavior if no interaction desired

## **Q** Current System Analysis

## **Existing Provi**

... [truncated]

=== SHAREPOINT-USAGE-GUIDE.MD (documentation) ===

Path: docs\SHAREPOINT-USAGE-GUIDE.md

Relevance Score: 95

## **SharePoint Integration Usage Guide**

## **Overview**

The SharePoint integration in Requirements Gathering Agent v2.1.3 enables you to automatically publish generated documents to SharePoint Online document libraries. This feature provides enterprise-grade document management with Azure authentication, metadata tagging, and version control.

#### **Features**

- Microsoft Graph API Integration: Secure, enterprise-grade authentication
- OAuth2 Authentication: Azure AD integration with device code flow
- Automatic Folder Creation: Creates organized folder structures
- Metadata Management: Adds custom metadata to published documents
- **Batch Publishing**: Efficiently publish multiple documents
- **Version Control**: SharePoint's built-in versioning support
- Enterprise Security: Follows Azure security best practices

## **Quick Start**

## 1. Prerequisites

Before using SharePoint integration, ensure you have:

- SharePoint Online subscription
- Azure AD tenant
- Azure App Registration with appropriate permissions
- SharePoint site and document library ready

## 2. Azure App Registration Setup

- 1. Create App Registration in Azure Portal:
  - Go to Azure Portal → Azure Active Directory → App registrations

- Click "New registration"
- Name: "Requirements Gathering Agent"
- Supported account types: "Accounts in this organizational directory only"
- Redirect URI: http://localhost:3000/auth/callback

#### 2. Configure API Permissions:

- Go to API permissions
- Add permissions:
  - Microsoft Graph → Application permissions:
    - Sites.ReadWrite.All
    - Files.ReadWrite.All
    - User.Read

#### 3. Grant Admin Consent:

Click "Grant admin consent for [Your Tenant]"

#### 4. Note Configuration Details:

- Application (client) ID
- Directory (tenant) ID

## 3. Initialize SharePoint Configuration

```
@ Phase 2 Objectives
 Transform our successful PDF generation pipeline into a premium Adobe
 - **Professional InDesign layouts** with custom branding
 - **Automated data visualizations** using Illustrator API

 Enhanced image processing with Photoshop API

 - **Template-driven document generation** with consistent branding
 ## Fechnical Architecture for Phase 2
 ### Current State (Phase 1) 🛂
Markdown → Puppeteer → Professional PDF
—— Professional styling
— Corporate typography
— Metadata and attribution
Print-ready output
 ### Target State (Phase 2) 6
Markdown → Content Analysis → Template Selection → Adobe Creative
APIs → Premium Output
InDesign Server (Layout & Typography)
—— Illustrator API (Charts & Infographics)
—— Photoshop API (Image Enhancement)
— Document Generation (Template Processing)
 ## 📋 Implementation Milestones
 ### Milestone 1: Adobe Creative SDK Setup (Priority 1)
 #### 1.1 Authentication & Credentials
 Files to Create:
 - `src/adobe/creative-suite/authenticator.ts`
```

```
- `src/adobe/creative-suite/config.ts`
- `.env.adobe.creative`

Implementation Steps:

1. **Adobe Creative SDK Registration**
    ```bash
    # Register for Adobe Creative SDK
    # Obtain API keys for:
    # - InDesign Server API
    # - Illustrator API
    # - Photoshop API
# - Document Generation API
```

2. Authentication Setup

```
// src/adobe/creative-suite/authenticator.ts
export class CreativeSuiteAuthenticator {
  private clientId: string;
  private clientSecret: string;

  async authenticate(): Promise<string> {
    // Implement OAuth 2.0 flow for Creative Suite APIs
  }
}
```

... [truncated]

PMBOK Planning Artifacts Checklist

| [] Work Breakdown Structure - Missing [] WBS Dictionary - Missing | Status | Artifact | Quality | Issues |
|---|--------|--------------------------|---------|---------|
| [] WBS Dictionary - Missing | [] | Work Breakdown Structure | - | Missing |
| | [] | WBS Dictionary | - | Missing |
| [] Activity List - Missing | [] | Activity List | - | Missing |

| Status | Artifact | Quality | Issues |
|--------|-----------------------------|---------|---------|
| [] | Activity Duration Estimates | - | Missing |
| [] | Activity Resource Estimates | - | Missing |
| [] | Schedule Network Diagram | - | Missing |
| [] | Milestone List | - | Missing |
| [] | Schedule Development Input | - | Missing |

1. Project Initiation

| • | ☐ Confirm Project Sponsor & Product Own | er identified | and |
|---|---|----------------------|-----|
| | engaged | | |

- Define and align project vision, objectives, and success criteria with stakeholders
- Review and finalize project scope including all deliverables
 (PMBOK-compliant docs, modular CLI, Azure AI integration)
- Identify all key stakeholders (PMs, BAs, Developers, Compliance, IT leadership, Vendors) and establish communication plan
- Document roles and responsibilities for all team members and stakeholders
- Set up project governance framework aligned with PMBOK standards and organizational policies

2. Planning and Requirements

- Gather and confirm detailed functional requirements based on user stories and acceptance criteria, including:
 - Project Charter generation

- Stakeholder Register
- Requirements Management Plan
- Technology Stack Analysis
- Risk Management Plan
- WBS and WBS Dictionary
- Quality Management Plan
- Compliance Considerations documentation
- CLI interface with modular generation
- Define non-functional requirements: security, performance, compliance, integration, modularity
- Confirm JSON schema definitions for all generated documents and output formats
- Establish Al integration requirements: Azure Al API usage limits, authentication mechanisms, usage metrics
- Identify regulatory and compliance requirements with Compliance Officers' input
- Plan for user adoption and training needs (documentation, tutorials, support)

3. Project Setup

- Provision Azure resources needed for Al integration (Azure OpenAl, Identity)
- Establish secure credential management process (Azure Key Vault, environment variables, secrets scanning)
- Set up development environment: Node.js/TypeScript, IDEs, version control (Git), package managers
- Configure project repositories with proper branch policies and access control
- Establish CI/CD pipelines for build, test, and deployment automation
- Define coding standards and review processes (TypeScript best practices, linting)
- Set up testing infrastructure: unit, integration, and schema validation frameworks

4. Risk Management

- Conduct risk workshop to validate and refine risk register based on project specifics
- Assign risk owners and mitigation strategies for key risks (Al accuracy, security, compliance, dependencies)
- Implement monitoring and alerting for Azure Al usage, API limits, and system health
- Plan for fallback mechanisms and error handling in case of Azure Al service issues
- Define data privacy and governance protocols for Al data handling and storage

5. Communication & Coordination

- Establish regular project status meetings and reporting cadence
- Set up collaboration platforms (Slack, MS Teams, Confluence, Jira) with appropriate channels and permissions
- Define escalation paths for issues and decisions
- Coordinate with Compliance Officers and PMO Admins for ongoing alignment and approvals
- Schedule stakeholder demos and feedback sessions for iterative validation

6. Deliverables & Milestones Definition

- Define milestone schedule including:
 - o Prototype/alpha release (basic doc generation)
 - o Beta with AI integration and CLI commands
 - Full feature completion with all document types and modular API

- QA and UAT completion
- Final release and deployment
- Define deliverable acceptance criteria based on user stories and PMBOK standards
- Plan for documentation and training materials delivery

7. Security & Compliance

- Review and approve security policies related to credentials, data handling, and access control
- Define audit logging and traceability requirements for Al calls and document generation
- Ensure compliance with relevant regulations and organizational standards
- Plan for regular security reviews and penetration testing if applicable

8. Training & Support

- Assign support and training roles
- Develop user guides, CLI usage docs, FAQs, and training sessions
- Plan for feedback collection and issue tracking post-launch

9. Kickoff Meeting Agenda (Initial)

- Introductions and role clarifications
- Review project objectives, scope, and success metrics
- Present project plan, milestones, and deliverables
- Discuss risks, challenges, and mitigation strategies
- Confirm communication and collaboration tools
- Open Q&A and align on next steps

Summary

This checklist ensures that the === PROJECT README ===

ADPA - Advanced Document Processing & Automation Framework

```
npm package 3.2.0

node >=18.0.0

TypeScript 5.7.2

License MIT

API-First TypeSpec
```

Previously known as Requirements Gathering Agent (RGA)

ADPA is a modular, standards-compliant enterprise automation framework for AI-powered document generation, project management, and business analysis. Built with TypeScript and Node.js, it provides both CLI and REST API interfaces for generating professional documentation following industry standards including BABOK v3, PMBOK 7th Edition, and DMBOK 2.0.



Enterprise Standards Compliance

- **III BABOK v3** Business Analysis Body of Knowledge automation
- **PMBOK 7th Edition** Project Management documentation generation
- Z DMBOK 2.0 Data Management frameworks (in progress)

m Multi-Framework Integration - Cross-reference and unified reporting

AI-Powered Generation

- Multi-Provider Al Support OpenAl, Google Al, GitHub Copilot, Ollama
- Intelligent Context Management Smart context injection and processing
- Professional Document Generation Standards-compliant business documents
- Automated Workflows End-to-end document generation pipelines

Enterprise Integration

- — Production-Ready REST API TypeSpec-generated OpenAPI specifications
- Confluence Integration Direct publishing to Atlassian
 Confluence
- SharePoint Integration Microsoft SharePoint document management
- Adobe Document Services Professional PDF generation and document intelligence
- • CLI & Web Interface Multiple interaction modes

Compliance & Security

- **© Enterprise-Grade Security** Production-ready authentication and authorization
- Regulatory Compliance Basel III, MiFID II, GDPR, SOX, FINRA, PCI DSS
- Fortune 500 Ready Designed for large-scale enterprise deployments
- **API-First Architecture** Scalable microservices design

NPM Package (Recommended)

npm install -g adpa-enterprise-framework-automation

From Source

```
git clone https://github.com/mdresch/requirements-gathering-agent.git
cd requirements-gathering-agent
npm install
npm run build
```

Docker (Coming Soon)

docker pull adpa/enterprise-framework:latest

© Quick Start

1. CLI Usage

```
# Generate project documentation
adpa generate --key project-charter --output ./docs

# Start the API server
adpa-api

# Initialize Confluence integration
adpa confluence init

# Initialize SharePoint integration
adpa sharepoint init
```

2. API Server

```
# Start the Express.js API server
npm run api:start

# Access API documentation
open http://localhost:3000/api-docs
```

3. Admin Web Interface

```
# Install and start the admin interface
npm run admin:setup
npm run admin:serve

# Access at http://localhost:3001
```

K Configuration

Environment Setup

```
# Copy environment template
cp .env.example .env

# Configure your AI providers
OPENAI_API_KEY=your_openai_key
GOOGLE_AI_API_KEY=your_google_ai_key
AZURE_OPENAI_ENDPOINT=your_azure_endpoint
```

Al Provider Configuration

ADPA supports multiple AI providers with automatic failover:

```
// Supported providers
- OpenAI (GPT-4, GPT-3.5)
```

- Google AI (Gemini Pro, Gemini Pro Vision)
- GitHub Copilot
- Ollama (Local models)
- Azure OpenAI



連 Framework Support

BABOK v3 (Business Analysis)

Production Ready

- Requirements Elicitation & Analysis
- Stakeholder Analysis & Management
- Business Analysis Planning
- Solution Assessment & Validation
- Enterprise Analysis

PMBOK 7th Edition (Project Management)

Implemented

- Project Charter & Scope Management
- Stakeholder Management Plans
- Risk & Quality Management
- Resource & Schedule Management
- Cost Management & Control

DMBOK 2.0 (Data Management)

In Progress

- Data Governance Frameworks
- Data Architecture & Quality
- Master Data Management
- Data Security & Privacy

Core Components

```
ADPA/

├─ ♠ AI Processing Engine # Multi-provider AI orchestration

├─ ◉ Document Generator # Template-based document creation

├─ ⊕ REST API Server # Express.js with TypeSpec specs

├─ Ს CLI Interface # Yargs-based command line tools

├─ ♥ Integration Layer # Adobe, Confluence, SharePoint, VCS

├─ ₺ Admin Interface # Next.js web management portal

└─ ♠ Analytics & Reporting # Usage metrics and insights
```

Technology Stack

- Backend: Node.js 18+, TypeScript 5.7+, Express.js
- Al Integration: OpenAl, Google Al, GitHub Copilot, Ollama
- API: TypeSpec, OpenAPI 3.0, Swagger UI
- Frontend: Next.js 14, React 18, Tailwind CSS
- Database: JSON-based configuration, extensible to SQL/NoSQL
- Testing: Jest, TypeScript, comprehensive test coverage

Usage Examples

Document Generation

```
# Generate business case document
adpa generate --key business-case --format markdown

# Generate complete project charter
adpa generate --category project-charter --output ./project-docs

# Generate stakeholder analysis
adpa generate --key stakeholder-analysis --format json
```

API Usage

Integration Examples

```
# Adobe Document Services integration
npm run adobe:setup
                                         # Configure Adobe credentials
npm run adobe:demo-generation
                                        # Run document generation demo
npm run adobe:example-basic
                                        # Basic PDF generation example
# Confluence integration
adpa confluence oauth2 login
adpa confluence publish --document ./docs/project-charter.md
# SharePoint integration
adpa sharepoint oauth2 login
adpa sharepoint upload --folder "Project Documents" --file ./docs/
# Version control integration
adpa vcs commit --message "Generated project documentation"
adpa vcs push --remote origin
```

🥓 Testing

```
# Run all tests
npm test

# Test specific providers
npm run test:azure
npm run test:github
npm run test:ollama
```

Performance testing npm run test:performance # Integration testing npm run test:integration



📋 Enterprise Features

Compliance Standards

- Financial: Basel III, MiFID II, FINRA, CFTC, FCA, BaFin
- Security: GDPR, SOX, PCI DSS, ISO 27001, ISO 9001
- **Industry**: Healthcare (HIPAA), Government (FedRAMP)

Enterprise Integration

- Identity Management: Active Directory, SAML, OAuth2
- Document Management: SharePoint, Confluence, FileNet
- Project Management: Jira, Azure DevOps, ServiceNow
- Version Control: GitHub Enterprise, GitLab, Azure DevOps

Scalability & Performance

- Horizontal Scaling: Microservices architecture
- **Caching**: Redis support for high-performance scenarios
- **Load Balancing**: Production-ready deployment patterns
- Monitoring: Built-in metrics and health checks

Project Structure

```
requirements-gathering-agent/
                                     # TypeScript source code
                                    # Main CLI entry point
                                    # Express.js API server
```

```
modules/
                                # Core modules
      - ai/
                               # AI provider integrations
      - documentGenerator/
                               # Document generation engine
      - confluence/
                               # Confluence integration
      - sharepoint/
                               # SharePoint integration
      - documentTemplates/
                               # Framework templates
      commands/
                               # CLI command modules
                                # Next.js admin portal
admin-interface/
 api-specs/
                                # TypeSpec API specifications
                                # Comprehensive documentation
                                # Test suites
 generated-documents/
                                # Output directory
                                # Compiled JavaScript
```

Contributing

We welcome contributions! Please see our **Contributing Guide** for details.

Development Setup

```
git clone https://github.com/mdresch/requirements-gathering-agent.git
cd requirements-gathering-agent
npm install
npm run dev  # Start development mode
npm run build  # Build for production
npm test  # Run tests
```

Code Standards

- TypeScript: Strict mode enabled
- **ESLint**: Airbnb configuration
- Prettier: Code formatting
- **Jest**: Unit and integration testing
- **Conventional Commits**: Commit message standards



Q1 2025

- BABOK v3 full implementation
- PMBOK 7th Edition compliance
- Multi-provider Al support
- Confluence & SharePoint integration

Q2 2025

- MBOK 2.0 implementation
- Docker containerization
- Subernetes deployment templates
- Advanced analytics dashboard

Q3 2025

- Enterprise SSO integration
- Advanced workflow automation
- Real-time collaboration features
- Mobile application support

Support & Documentation

- **Full Documentation**: GitHub Wiki
- **\(\)** Issue Tracking: <u>GitHub Issues</u>
- Community: GitHub Discussions
- Enterprise Support: Contact Us

License

This project is licensed under the MIT License - see the LICENSE file for details.



Acknowledgments

- Industry Standards: PMI (PMBOK), IIBA (BABOK), DAMA (DMBOK)
- Al Providers: OpenAl, Google, GitHub, Ollama community
- **Enterprise Partners**: Fortune 500 beta testing organizations
- Open Source Community: Contributors and feedback providers

Built with for Enterprise Automation

🖐 Star us on GitHub | 🌑 npm Package | 📖 Documentation

=== PROJECT METADATA ===

Name: adpa-enterprise-framework-automation

Description: Modular, standards-compliant Node.js/TypeScript automation framework for enterprise requirements, project, and data management. Provides CLI and API for BABOK v3, PMBOK 7th Edition, and DMBOK 2.0 (in progress). Production-ready Express.js API with TypeSpec architecture. Designed for secure, scalable, and maintainable enterprise automation.

Version: 3.2.0

Dependencies: @adobe/pdfservices-node-sdk, @azure-rest/ai-inference, @azure/identity, @azure/msal-node, @azure/openai, @google/generative-ai, @microsoft/microsoft-graph-client, axios, bcryptjs, compression, cors, dotenv, express, express-rate-limit, express-validator, express-winston, form-data, glob, helmet, joi, jsonwebtoken, morgan, multer, node-fetch, openai, swagger-ui-express, ts-node, uuid, winston, yargs, zod

Dev Dependencies: @jest/globals, @redocly/cli, @types/bcryptjs, @types/compression, @types/cors, @types/express, @types/glob, @types/jest, @types/jsonwebtoken, @types/morgan, @types/multer, @types/node, @types/node-fetch, @types/swagger-ui-express, @types/uuid, @typespec/compiler, @typespec/http, @typespec/json-schema, @typespec/openapi3, @typespec/rest, ajv, jest, rimraf, ts-jest, typescript, webpack-cli

Available Scripts: build, copy-configs, start, api:start, dev, clean, test, test:providers, test:performance, test:azure, test:github, test:ollama, test:failover, test:unit, prepublishOnly, admin:install, admin:dev, admin:build, admin:start, admin:setup, admin:serve, confluence:init,

confluence:test, confluence:oauth2:login, confluence:oauth2:status, confluence:oauth2:debug, confluence:publish, confluence:status, sharepoint:init, sharepoint:test, sharepoint:oauth2:login, sharepoint:oauth2:status, sharepoint:oauth2:debug, sharepoint:publish, sharepoint:status, api:compile, api:watch, api:format, api:lint, api:docs, api:serve-docs, api:demo, api:server, babok:generate, pmbok:generate, dmbok:generate, framework:multi

=== PHASE-2-IMPLEMENTATION-GUIDE.MD (documentation) ===

Path: docs\ADOBE\PHASE-2-IMPLEMENTATION-GUIDE.md

Relevance Score: 95

Adobe Creative Suite Phase 2 Implementation Guide

Date: July 8, 2025

Status: READY FOR IMPLEMENTATION

Prerequisites: Phase 1 Complete (58 PDFs generated successfully)

Phase 2 Objectives

Transform our successful PDF generation pipeline into a premium Adobe Creative Suite presentation layer that delivers:

- Professional InDesign layouts with custom branding
- Automated data visualizations using Illustrator API
- Enhanced image processing with Photoshop API
- Template-driven document generation with consistent branding

Technical Architecture for Phase 2

Current State (Phase 1)

```
Markdown → Puppeteer → Professional PDF

├── Professional styling

├── Corporate typography

├── Metadata and attribution

└── Print-ready output
```

Target State (Phase 2) 6

```
Markdown → Content Analysis → Template Selection → Adobe Creative API

|-- InDesign Server (Layout & Typography)

|-- Illustrator API (Charts & Infographics)

|-- Photoshop API (Image Enhancement)

|-- Document Generation (Template Processing)
```

Implementation Milestones

Milestone 1: Adobe Creative SDK Setup (Priority 1)

1.1 Authentication & Credentials

Files to Create:

- src/adobe/creative-suite/authenticator.ts
- src/adobe/creative-suite/config.ts
- .env.adobe.creative

Implementation Steps:

1. Adobe Creative SDK Registration

```
# Register for Adobe Creative SDK
# Obtain API keys for:
# - InDesign Server API
# - Illustrator API
```

```
# - Photoshop API
# - Document Generation API
```

2. Authentication Setup

```
// src/adobe/creative-suite/authenticator.ts
export class CreativeSuiteAuthenticator {
  private clientId: string;
  private clientSecret: string;

async authenticate(): Promise<string> {
    // Implement OAuth 2.0 flow for Creative Suite APIs
  }
}
```

... [truncated]

=== ARCHITECTURE.MD (development) ===

Path: docs\ARCHITECTURE.md

Relevance Score: 95

Requirements Gathering Agent - Architecture Documentation

Overview

The Requirements Gathering Agent is an Al-driven system designed to automate and enhance the requirements gathering process for software projects. It leverages multiple Al providers and context management techniques to generate comprehensive project documentation, user stories, and strategic planning artifacts.

System Architecture

Core Components

1. Context Management System

- Context Manager: Central component for managing project context and Al interactions
- Provider Abstraction: Support for multiple Al providers (OpenAl, Google Al, GitHub Copilot, Ollama)
- Context Injection: Direct context injection capabilities for efficient Al processing

2. Al Provider Integration

- Multi-Provider Support: Flexible architecture supporting various Al services
- **Provider Synchronization**: Coordinated Al provider management
- Fallback Mechanisms: Robust handling of provider failures

3. Document Generation Engine

- **Template-Based Generation**: Structured document creation using predefined templates
- PMBOK Compliance: Project management artifacts following PMBOK guidelines
- Automated Workflows: End-to-end document generation pipelines

4. CLI Interface

- **Command-Line Tools**: cli.ts and cli-main.ts for system interaction
- **Batch Processing**: Support for bulk document generation
- Configuration Management: Flexible configuration options

Technology Stack

Core Technologies

- TypeScript: Primary development language for type safety and maintainability
- **Node.js**: Runtime environment for server-side execution
- **Jest**: Testing framework for unit and integration tests

Al Integration

- OpenAl API: GPT models for text generation and analysis
- Google AI: Gemini models for alternative AI processing
- **GitHub Copilot**: Code generation and assistance
- Ollama:
 - ... [truncated]

=== API-TESTING-COMPREHENSIVE-SUMMARY.MD (development) === Path: docs\AZURE\API-TESTING-COMPREHENSIVE-SUMMARY.md

Relevance Score: 95

ADPA API Testing Comprehensive Summary

Test Session Report - June 22, 2025

6 TESTING OVERVIEW

Duration: 1 hour testing session

API Server: Express.js with TypeScript

Port: 3001

Environment: Development

Authentication: API Key & JWT Support

SUCCESSFUL TESTS

1. **Health Endpoints** - ALL PASSED ✓

- Main Health Check: GET /api/v1/health
 - Returns comprehensive system status
 - Includes memory usage, uptime, version info
 - Proper JSON formatting
- **Readiness Check:** GET /api/v1/health/ready
 - Returns ready status with timestamp
 - Quick response time

2. Authentication & Security - ALL PASSED ✓

- API Key Authentication: X-API-Key: dev-api-key-123
 - Valid API key grants access
 - ☑ Invalid API key rejected with proper error
 - Missing API key prompts authentication required
- Security Headers & Middleware:
 - Helmet security middleware active
 - CORS properly configured
 - Rate limiting configured (no issues during testing)

3. Templates API - ALL PASSED ✓

- **Template Listing:** GET /api/v1/templates
 - Returns empty list initially (expected)
 - Proper pagination structure
- **Template Creation:** POST /api/v1/templates
 - MAJOR SUCCESS: Created comprehensive BABOK
 Requirements Elicitation Template
 - Template ID: ca8d4758-03c5-4110-84a7-2f5bcd318539
 - Validation working correctly
 - Rich template with variables and layout configuration

- **Template Retrieval:** GET /api/v1/templates/{id}
 - Proper GUID validation
 - Returns 404 for non-existent templates (expected)

4. Documents API - ALL PASSED ✓

- **Document Jobs Listing:** GET /api/v1/documents/jobs
 - Returns proper pagination structure
 - Authentication required and working
- **Document Conversion:** POST /api/v1/documents/convert
 - MAJOR SUCCESS: Ge
 - ... [truncated]

=== AZURE-PORTAL-API-CENTER-SETUP-GUIDE.MD (primary) === Path: docs\AZURE\AZURE-PORTAL-API-CENTER-SETUP-GUIDE.md Relevance Score: 95

Azure Portal API Center Setup Guide

Standards Compliance & Deviation Analysis API

Portal-Based Deployment Strategy

Using the Azure Portal will help resolve subscription ID issues and provide a visual approach to API Center setup.

Step 1: Access Azure Portal

Navigate to Azure API Center

- 1. Open: Azure Portal
- 2. **Search**: "API Center" in the top search bar
- 3. Select: "API Centers" from the results

Verify Subscription Access

- **Check**: Which subscriptions you can see in the portal
- **Confirm**: The correct subscription containing your resources
- Note: The actual subscription ID for CLI alignment

Step 2: Create/Verify API Center Instance

Option A: Create New API Center

If svc-api-center doesn't exist:

- 1. Click: "Create API Center"
- 2. **Subscription**: Select the correct active subscription
- 3. **Resource Group**:
 - **Existing**: rg-api-center (if exists)
 - **New**: Create rg-api-center
- 4. **API Center Name**: svc-api-center
- 5. **Region**: **West Europe** (westeu)
- 6. **Pricing Tier**: Start with Standard
- 7. **Click**: "Review + Create" → "Create"

Option B: Use Existing API Center

If it already exists:

- 1. **Navigate**: to existing svc-api-center
- 2. **Note**: Subscription ID and Resource Group (rg-api-center)
- 3. **Verify**: Access and permissions

Step 3: Create APIs via Portal

3.1 Create Echo API

- 1. **Navigate**: to your svc-api-center API Center instance
- 2. Click: "APIs" in the left menu
- 3. Click: "Create API"
- 4. Fill Details:
 - **APIID**: echo-api
 - o Title: Echo API
 - **Type**: REST
 - **Description**: Simple echo API for testing
- 5. Click: "Create"

3.2 Create Standards Compliance API

- 1. Click: "Create API" again
- 2. Fill Details:
 - APIID: standards-compliance-api
 - o Title: `Standards Compliance & Devia
 - ... [truncated]

=== AZURE-PORTAL-API-REGISTRATION-GUIDE.MD (development) ===

Path: docs\AZURE\AZURE-PORTAL-API-REGISTRATION-GUIDE.md

Relevance Score: 95

Azure Portal API Registration Guide

Manual API Center Setup - No CLI Required

Why Portal Registration is Perfect for

You

The Azure Portal approach bypasses all CLI subscription issues and gives you immediate visual results - perfect for demonstrating to PMI leadership!

Step 1: Access Azure Portal

Navigate to API Centers

- 1. Open: Azure Portal
- 2. **Sign in** with your Azure account
- 3. **Search**: "API Center" in the top search bar
- 4. Select: "API Centers" from the dropdown

Find Your API Center

- Look for: svc-api-center in rg-api-center
- **Or**: Create new if it doesn't exist

Step 2: Register Your APIs in Portal

2.1 Register Echo API

- 1. Navigate: to your API Center (svc-api-center)
- 2. Click: "APIs" in the left navigation menu
- 3. Click: "Register API" or "Add API" button
- 4. Fill in the form:

API Name: Echo API API ID: echo-api

Type: REST

Description: Simple echo API for testing Azure API Center function

Version: 1.0

5. Click: "Register" or "Create"

2.2 Register Standards Compliance API

1. Click: "Register API" again

2. Fill in the form:

API Name: Standards Compliance & Deviation Analysis API

API ID: standards-compliance-api

Type: REST

Description: PMI PMBOK and BABOK standards compliance analysis wi

Version: 1.0

Tags: pmi, pmbok, babok, compliance, governance, standards

3. Click: "Register" or "Create"

Step 3: Add API Specifications

Upload OpenAPI Specification

- 1. **Select**: your standards-compliance-api from the list
- 2. Click: "API definitions" or "Specifications" tab
- 3. Click: "Add definition" or "Upload specification"
- 4. **Choose**: "OpenAPI" as the specification type
- 5. Upload method options:

**Option

... [truncated]

=== BABOK-ENTERPRISE-DEMONSTRATION-GUIDE.MD (documentation)

===

Path: docs\BABOK\BABOK-ENTERPRISE-DEMONSTRATION-GUIDE.md Relevance Score: 95



Step-by-Step Guide to Professional Business Analysis Automation

DEMONSTRATION OVERVIEW

This guide demonstrates how the ADPA API delivers enterprise-grade BABOK v3 compliant business analysis consulting capabilities, suitable for Fortune 500 digital transformation projects.



🖋 STEP 1: API SERVER INITIALIZATION

1.1 Start the Enterprise API Server

Navigate to project directory cd C:\Users\menno\Source\Repos\requirements-gathering-agent # Build the production-ready API npm run api:build # Start the enterprise API server npm run api:server

Expected Output:

1.2 Verify API Health & Capabilities

```
curl http://localhost:3001/api/v1/health
```

Enterprise-Grade Response:

```
{
   "status": "healthy",
   "timestamp": "2025-06-22T13:30:00.000Z",
   "version": "2.2.0",
   "environment": "development",
   "uptime": 45.2,
   "memory": {"used": 12, "total": 14, "external": 2},
   "node": "v20.18.2"
}
```

STEP 2: ENTERPRISE TEMPLATECREATION

2.1 Create BABOK v3 Requirements Elicitation Template

File: enterprise-babok-template.json

```
{
    "name": "BABOK v3 Enterprise Requirements Elicitation Framework",
    "description": "Comprehensive BABOK v3 compliant template for enterp
```

```
"category": "enterprise-business-analysis",
  "tags": ["babok-v3", "requirements-elicitation", "enterprise", "stak
  "templateData": {
    "content": "# BABOK v3 Enterpri
... [truncated]
=== COLLABORATION-TOOLS-ROADMAP.MD (planning) ===
Path: docs\COLLABORATION-TOOLS-ROADMAP.md
Relevance Score: 95
# Collaboration Tools Development Roadmap
## Overview
This document outlines the roadmap for implementing multi-user collabo
## Current Capabilities
- ☑ **Single-user CLI interface**: Full functionality for individual
- ✓ **RESTful API**: Multi-client architecture ready
- ☑ **Authentication**: Bearer token system implemented
- ☑ **Document Management**: Template and output management
- ☑ **Standards Compliance**: Individual project analysis
## Collaboration Features Architecture
### Multi-User Management System
#### User Roles & Permissions
```typescript
interface UserRole {
 id: string;
 name: 'admin' | 'project_manager' | 'business_analyst' | 'stakeholde
 permissions: Permission[];
}
interface Permission {
 resource: 'projects' | 'documents' | 'standards' | 'adobe' | 'users'
 actions: ('create' | 'read' | 'update' | 'delete' | 'approve')[];
}
```

```
interface Team {
 id: string;
 name: string;
 description: string;
 members: TeamMember[];
 projects: string[];
 createdAt: Date;
 updatedAt: Date;
}

interface TeamMember {
 userId: string;
 role: UserRole;
 joinedAt: Date;
 permissions: Permission[];
}
```

#### **Real-time Collaboration Features**

#### 1. Concurrent Document Editing

- Real-time Updates: WebSocket-based live collaboration
- Conflict Resolution: Operational transformation for concurrent edits
- Version Control: Document versioning with merge capabilities
- **Change Tracking**: Author attribution and change history

#### 2. Project Sharing & Permissions

- Project Access Control: Role-based access to projects
- **Sharing Mechanisms**: Invite links and email notifications
- **Permission Management**: Granular control over project actions
- Audit Trail: Complete history of project access and changes

#### 3. Approval Workflows

... [truncated]

(documentation) ===

Path: docs\implementation-guide-provider-choice-menu.md

Relevance Score: 95

## **Interactive AI Provider Selection Menu - Implementation Guide**

**Document Version: 1.0** Created: December 2024

Last Updated: December 2024

**Target Audience:** Developers, Technical Leads, Product Managers



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#### Overview

This guide provides comprehensive documentation for implementing an interactive choice menu that allows users to select an AI provider before running the Requirements Gathering Agent. The feature enhances user experience by providing a visual selection interface instead of requiring manual environment configuration.

## **o** Objectives

- Simplify Provider Selection: Replace manual .env configuration with an interactive menu
- Improve User Experience: Provide clear provider options with descriptions and setup guidance
- Maintain Existing Functionality: Preserve current provider detection and fallback mechanisms
- Enable Dynamic Switching: Allow users to change providers without restarting the application

## Key Features

- Interactive CLI-based provider selection menu
- Real-time provider availability detection
- Configuration validation before selection
- Automatic .env file generation/update
- Provider-specific setup guidance
- Fallback to current behavior if no interaction desired

## Current System Analysis

## **Existing Provi**

... [truncated]

=== SHAREPOINT-USAGE-GUIDE.MD (documentation) ===

Path: docs\SHAREPOINT-USAGE-GUIDE.md

Relevance Score: 95

## **SharePoint Integration Usage Guide**

#### **Overview**

The SharePoint integration in Requirements Gathering Agent v2.1.3 enables you to automatically publish generated documents to SharePoint Online document libraries. This feature provides enterprise-grade document management with Azure authentication, metadata tagging, and version control.

#### **Features**

- Microsoft Graph API Integration: Secure, enterprise-grade authentication
- OAuth2 Authentication: Azure AD integration with device code flow
- Automatic Folder Creation: Creates organized folder structures
- Metadata Management: Adds custom metadata to published documents
- Batch Publishing: Efficiently publish multiple documents
- **Version Control**: SharePoint's built-in versioning support
- Enterprise Security: Follows Azure security best practices

## **Quick Start**

## 1. Prerequisites

Before using SharePoint integration, ensure you have:

- SharePoint Online subscription
- Azure AD tenant
- Azure App Registration with appropriate permissions

• SharePoint site and document library ready

## 2. Azure App Registration Setup

#### 1. Create App Registration in Azure Portal:

- Go to Azure Portal → Azure Active Directory → App registrations
- Click "New registration"
- Name: "Requirements Gathering Agent"
- Supported account types: "Accounts in this organizational directory only"
- Redirect URI: http://localhost:3000/auth/callback

#### 2. Configure API Permissions:

- Go to API permissions
- Add permissions:
  - Microsoft Graph → Application permissions:
    - Sites.ReadWrite.All
    - Files.ReadWrite.All
    - User.Read

#### 3. Grant Admin Consent:

Click "Grant admin consent for [Your Tenant]"

#### 4. Note Configuration Details:

- Application (client) ID
- Directory (tenant) ID

## 3. Initialize SharePoint Configuration

```
Initialize SharePoint configuration
npm run sharepoint:in
... [truncated]
=== PHASE-2-IMPLEMENTATION-GUIDE.MD (documentation) ===
```

```
Path: docs\ADOBE\PHASE-2-IMPLEMENTATION-GUIDE.md
 Relevance Score: 95
 # Adobe Creative Suite Phase 2 Implementation Guide
 Date: July 8, 2025
 Status: | **READY FOR IMPLEMENTATION**
 Prerequisites: 🔽 Phase 1 Complete (58 PDFs generated successfully
 ## @ Phase 2 Objectives
 Transform our successful PDF generation pipeline into a premium Adobe
 - **Professional InDesign layouts** with custom branding
 - **Automated data visualizations** using Illustrator API

 Enhanced image processing with Photoshop API

 - **Template-driven document generation** with consistent branding
 ## 🔀 Technical Architecture for Phase 2
 ### Current State (Phase 1) 🔽
Markdown → Puppeteer → Professional PDF
—— Professional styling
Corporate typography
— Metadata and attribution
Print-ready output
 ### Target State (Phase 2) 🎯
Markdown → Content Analysis → Template Selection → Adobe Creative
APIs → Premium Output
InDesign Server (Layout & Typography)
| Illustrator API (Charts & Infographics)
—— Photoshop API (Image Enhancement)
— Document Generation (Template Processing)
```

```
📋 Implementation Milestones
Milestone 1: Adobe Creative SDK Setup (Priority 1)
1.1 Authentication & Credentials
Files to Create:
- `src/adobe/creative-suite/authenticator.ts`
- `src/adobe/creative-suite/config.ts`
- `.env.adobe.creative`
Implementation Steps:
1. **Adobe Creative SDK Registration**
  ```bash
  # Register for Adobe Creative SDK
  # Obtain API keys for:
  # - InDesign Server API
  # - Illustrator API
  # - Photoshop API
  # - Document Generation API
```

2. Authentication Setup

```
// src/adobe/creative-suite/authenticator.ts
export class CreativeSuiteAuthenticator {
  private clientId: string;
  private clientSecret: string;

async authenticate(): Promise<string> {
    // Implement OAuth 2.0 flow for Creative Suite APIs
  }
}
```

... [truncated]

project starts with clear objectives, comprehensive planning, secure and scalable architecture considerations, stakeholder alignment, and risk preparedness. It aligns tightly with PMBOK standards and the project's detailed user stories and technical context.

 $\label{lem:condition} Generated from generated-documents \ | Project-KickOff-Preprations-CheckList.md \ | \\ Requirements \ Gathering \ Agent$