Activity List

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Activity List

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Activity List

Project: ADPA - Advanced Document Processing & Automation Framework

Version: 3.2.0

Prepared by: Project Management Team

Date: July 2025

Document Overview

This Activity List decomposes the principal work packages for the ADPA project into specific, actionable activities. Each activity is measurable, assignable, and supports project objectives—including modular, standards-compliant automation, enterprise integration, Al-powered document generation, and compliance with frameworks (BABOK v3, PMBOK 7th Edition, DMBOK 2.0).

This list is derived from the Work Breakdown Structure (WBS) and provides the foundation for schedule planning, resource assignment, and progress tracking.

• Relationship to WBS:

Activities are mapped to WBS work packages by phase and deliverable.

• Identification Methodology:

Activities are defined by reviewing functional modules, integration points, compliance requirements, and roadmap milestones.

Activity Definitions

Project Phase: Core Framework Development

Work Package: WBS-1.1 - Al Provider Integration

Activity ID: ACT-001

Activity Name: Implement OpenAl Integration

Description: Develop connectors and authentication for OpenAI GPT-4/3.5 APIs, configure failover logic.

Deliverable: Working module in src/modules/ai/openai.ts with tested API calls

Effort Estimate: 24 hours

Skills Required: TypeScript, Node.js, OpenAl API, OAuth

Constraints: API key management, rate limits **Assumptions:** OpenAI account access available

Activity ID: ACT-002

Activity Name: Implement Google Al Integration

Description: Integrate Gemini Pro APIs, configure authentication, and ensure parity with OpenAI

connector.

Deliverable: Module in src/modules/ai/google.ts

Effort Estimate: 20 hours

Skills Required: TypeScript, Node.js, Google Al API

Constraints: Provider quotas

Assumptions: Google developer access granted

Activity ID: ACT-003

Activity Name: Implement Provider Choice Menu

Description: Build interactive CLI menu for Al provider selection; auto-update .env as needed.

Deliverable: Menu in CLI interface, configuration update logic

Effort Estimate: 12 hours

Skills Required: Node.js, CLI development **Constraints:** Backward compatibility **Assumptions:** Providers already integrated

Work Package: WBS-1.2 - Context & Template Management

Activity ID: ACT-004

Activity Name: Design Context Injection System

Description: Develop logic for injecting project context into Al prompts across providers.

Deliverable: Utility in src/modules/context/

Effort Estimate: 16 hours

Skills Required: TypeScript, AI prompt engineering

Constraints: Provider token limits

Assumptions: Context data structures defined

Activity ID: ACT-005

Activity Name: Develop Template Management API

Description: REST API endpoints for CRUD operations on document templates. **Deliverable:** Routes in src/modules/documentTemplates/, OpenAPI spec

Effort Estimate: 16 hours

Skills Required: Express.js, TypeSpec, OpenAPI

Constraints: Auth required

Assumptions: Basic API server operational

Work Package: WBS-1.3 - Document Generation Engine

Activity ID: ACT-006

Activity Name: Implement Template-Based Generator

Description: Engine for converting templates + data into documents (Markdown, PDF, DOCX).

Deliverable: Core engine in src/modules/documentGenerator/

Effort Estimate: 32 hours

Skills Required: TypeScript, templating, Puppeteer

Constraints: Output formats **Assumptions:** Templates available

Activity ID: ACT-007

Activity Name: Integrate Adobe PDF Services

Description: Use @adobe/pdfservices-node-sdk for premium PDF output.

Deliverable: Integration module, sample output

Effort Estimate: 20 hours

Skills Required: Node.js, Adobe API

Constraints: Adobe API key **Assumptions:** SDK access

Project Phase: Enterprise Integration

Work Package: WBS-2.1 - Confluence Integration

Activity ID: ACT-008

Activity Name: Implement Confluence OAuth2 Authentication

Description: Setup and test OAuth2 device flow for Atlassian Confluence API.

Deliverable: Auth logic in src/modules/confluence/oauth.ts

Effort Estimate: 12 hours

Skills Required: OAuth2, Node.js

Constraints: Confluence admin access

Assumptions: App registration complete

Activity ID: ACT-009

Activity Name: Develop Direct Publishing to Confluence

Description: Code to publish generated docs to configured Confluence spaces.

Deliverable: CLI/API endpoint, publishing logs

Effort Estimate: 16 hours

Skills Required: TypeScript, REST API

Constraints: API quotas **Assumptions:** Auth complete

Work Package: WBS-2.2 - SharePoint Integration

Activity ID: ACT-010

Activity Name: Setup SharePoint Azure App Registration

Description: Register Azure app, configure Graph API permissions, record credentials.

Deliverable: App registration, credential documentation

Effort Estimate: 8 hours

Skills Required: Azure Portal, Microsoft Graph

Constraints: Azure admin required **Assumptions:** Tenant available

Activity ID: ACT-011

Activity Name: Develop SharePoint Document Uploader

Description: Implement logic to upload and tag documents in SharePoint libraries.

Deliverable: Module in src/modules/sharepoint/, usage guide

Effort Estimate: 16 hours

Skills Required: Node.js, Microsoft Graph, OAuth2

Constraints: Library access

Assumptions: Auth setup complete

Work Package: WBS-2.3 - Adobe Creative Suite Phase 2

Activity ID: ACT-012

Activity Name: Register Adobe Creative SDK Applications

Description: Register and configure API keys for InDesign, Illustrator, Photoshop, Document Generation.

Deliverable: SDK accounts, .env.adobe.creative file

Effort Estimate: 8 hours

Skills Required: Adobe Dev Console, API registration

Constraints: Adobe developer access **Assumptions:** Accounts available

Activity ID: ACT-013

Activity Name: Implement Adobe API Authentication Module

Description: Build creative-suite/authenticator.ts for OAuth2 flow for all Adobe services.

Deliverable: Auth module, tested token retrieval

Effort Estimate: 16 hours

Skills Required: TypeScript, OAuth2, Adobe APIs

Constraints: Key security **Assumptions:** Keys provisioned

Activity ID: ACT-014

Activity Name: Integrate InDesign/Illustrator/Photoshop APIs

Description: Build modules for layout, graphics, and image processing; combine for premium outputs.

Deliverable: API integration code, demo output

Effort Estimate: 32 hours

Skills Required: TypeScript, Adobe SDKs

Constraints: API quotas

Assumptions: Auth module complete

Project Phase: Compliance & Security

Work Package: WBS-3.1 - Security Implementation

Activity ID: ACT-015

Activity Name: Implement JWT & API Key Authentication

Description: Security middleware for JWT/API Key auth on CLI & API endpoints.

Deliverable: Middleware in src/modules/security/, test cases

Effort Estimate: 12 hours

Skills Required: Node.js, Auth, Security

Constraints: None

Assumptions: User directory exists

Activity ID: ACT-016

Activity Name: Apply Regulatory Compliance Checks

Description: Automate checks for GDPR, SOX, PCI DSS, etc. in doc generation and storage.

Deliverable: Compliance check modules, documentation

Effort Estimate: 20 hours

Skills Required: Legal standards, TypeScript

Constraints: Legal review

Assumptions: Standards documentation

Project Phase: Testing & Quality Assurance

Work Package: WBS-4.1 - Automated Testing

Activity ID: ACT-017

Activity Name: Develop Unit and Integration Test Suites

Description: Write Jest tests for all modules, ensure 90%+ coverage.

Deliverable: Test cases in test/, coverage reports

Effort Estimate: 24 hours
Skills Required: TypeScript, Jest
Constraints: Code coverage goal
Assumptions: Modules implemented

Activity ID: ACT-018

Activity Name: Execute Performance and Provider Failover Tests

Description: Stress test provider switching, document generation throughput, and failover logic.

Deliverable: Test reports, tuned configuration

Effort Estimate: 12 hours

Skills Required: Node.js, Performance testing

Constraints: Test environment

Assumptions: All providers configured

Project Phase: Documentation & Training

Work Package: WBS-5.1 - End-User Documentation

Activity ID: ACT-019

Activity Name: Write Admin & User Guides

Description: Document installation, configuration, CLI/API usage, and troubleshooting.

Deliverable: Markdown docs in docs/, Wiki updates

Effort Estimate: 16 hours

Skills Required: Technical writing

Constraints: English only **Assumptions:** Features stable

Activity ID: ACT-020

Activity Name: Prepare Enterprise Demo Scenarios

Description: Create demo scripts for BABOK/PMBOK/DMBOK compliance scenarios.

Deliverable: Demo scripts, sample data sets

Effort Estimate: 8 hours

Skills Required: Business analysis, documentation

Constraints: None

Assumptions: All frameworks implemented

Activity Summary

Activity Inventory

Activity ID	Activity Name	Work Package	Phase	Effort Est.	Skills Required
ACT- 001	Implement OpenAl Integration	WBS- 1.1	Core Framework Development	24h	TypeScript, OpenAl API
ACT- 002	Implement Google Al Integration	WBS- 1.1	Core Framework Development	20h	TypeScript, Google Al API
ACT- 003	Implement Provider Choice Menu	WBS- 1.1	Core Framework Development	12h	Node.js, CLI dev
ACT- 004	Design Context Injection System	WBS- 1.2	Core Framework Development	16h	Al prompt engineering
ACT- 005	Develop Template Management API	WBS- 1.2	Core Framework Development	16h	Express.js, API design

Activity ID	Activity Name	Work Package	Phase	Effort Est.	Skills Required
ACT- 006	Implement Template-Based Generator	WBS- 1.3	Core Framework Development	32h	TypeScript, templating
ACT- 007	Integrate Adobe PDF Services	WBS- 1.3	Core Framework Development	20h	Node.js, Adobe API
ACT- 008	Implement Confluence OAuth2 Authentication	WBS- 2.1	Enterprise Integration	12h	OAuth2, Node.js
ACT- 009	Develop Direct Publishing to Confluence	WBS- 2.1	Enterprise Integration	16h	TypeScript, REST API
ACT- 010	Setup SharePoint Azure App Registration	WBS- 2.2	Enterprise Integration	8h	Azure Portal, Graph API
ACT- 011	Develop SharePoint Document Uploader	WBS- 2.2	Enterprise Integration	16h	Microsoft Graph, OAuth2
ACT- 012	Register Adobe Creative SDK Applications	WBS- 2.3	Enterprise Integration	8h	Adobe Dev Console
ACT- 013	Implement Adobe API Authentication Module	WBS- 2.3	Enterprise Integration	16h	TypeScript, OAuth2
ACT- 014	Integrate InDesign/Illustrator/Photoshop	WBS- 2.3	Enterprise Integration	32h	TypeScript, Adobe SDKs
ACT- 015	Implement JWT & API Key Authentication	WBS- 3.1	Compliance & Security	12h	Node.js, Security
ACT- 016	Apply Regulatory Compliance Checks	WBS- 3.1	Compliance & Security	20h	Legal, TypeScript
ACT- 017	Develop Unit and Integration Test Suites	WBS- 4.1	Testing & QA	24h	Jest, TypeScript
ACT- 018	Execute Performance and Failover Tests	WBS- 4.1	Testing & QA	12h	Node.js, Performance testing
ACT- 019	Write Admin & User Guides	WBS- 5.1	Documentation & Training	16h	Technical Writing

Activity ID	Activity Name	Work Package	Phase	Effort Est.	Skills Required
ACT- 020	Prepare Enterprise Demo Scenarios	WBS- 5.1	Documentation & Training	8h	Business analysis, documentation

Activity Categories

• Development Activities: 14

Includes all activities related to integration, module development, API implementation, and CLI features (ACT-001 to ACT-007, ACT-009, ACT-011, ACT-013, ACT-014, ACT-015, ACT-016).

• Testing Activities: 2

Covers automated/unit/integration/performance/failover testing (ACT-017, ACT-018).

• Documentation Activities: 2

Covers technical and end-user documentation, training, demo scenario preparation (ACT-019, ACT-020).

• Management Activities: 2

Includes environment setup, API/app registration, and compliance review (ACT-010, ACT-012).

Notes

- All activities are designed to be measurable, assignable, and tracked via the project management system.
- Assignments should reflect required expertise (e.g., TypeScript developer, Al integrator, DevOps, technical writer).
- Each activity should have a clear owner and due date in the project schedule tool.

End of Activity List

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