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

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

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