Develop Schedule Input

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DevelopScheduleInput

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Description: Inputs and considerations for developing the project

schedule.

Developscheduleinput

Project: ADPA - Advanced Document Processing & Automation

Framework **Version:** 3.2.0

Document Purpose: Detailed guidance for developing, managing, and tracking the schedule input processes and milestones for the ADPA (formark) Programments Cathering Agent) project

(formerly Requirements Gathering Agent) project.

1. Introduction

The ADPA Enterprise Framework is a modular, Al-powered automation platform for generating standards-compliant documentation in enterprise environments. It integrates robust project management, business analysis, and data governance frameworks (BABOK v3, PMBOK 7th, DMBOK 2.0), and provides both a CLI and REST API. This Developscheduleinput document defines the process, tools, and checkpoints for capturing, validating, and managing schedule inputs throughout the product lifecycle.

2. Objectives

- **Standardize schedule input collection** across CLI, API, and admin interfaces.
- Ensure **traceability** of schedule data from input to output artifacts.
- Enable **multi-framework compliance** with PMBOK 7th and BABOK v3 scheduling standards.
- Facilitate automation and integration with enterprise tools (Confluence, SharePoint, Jira, etc.).
- Support real-time collaboration and version control on schedule inputs.

3. Schedule Input Process Overview

3.1 Schedule Input Sources

Source	Description	Interface
CLI	Command-line entry of schedule parameters	adpa generate
REST API	Programmatic schedule data submission	/api/v1/generate

Source	Description	Interface
Admin Web UI	Interactive scheduling forms & templates	Next.js portal
Integration APIs	Imports from Jira, Azure DevOps, Confluence, SharePoint	Integration Layer

3.2 Schedule Input Types

- Project Charter & High-Level Milestones
- Task Breakdown Structures (WBS)
- Resource Assignments
- Dependencies & Constraints
- Schedule Baselines & Updates
- Risk-Adjusted Schedules

4. Schedule Input Data Model

All schedule inputs must adhere to a structured, standards-compliant JSON schema. Example (PMBOK/BABOK hybrid):

```
{
  "projectId": "string",
  "schedule": {
      "milestones": [
      {
            "id": "uuid",
            "name": "Milestone Name",
            "plannedStart": "YYYY-MM-DD",
            "plannedEnd": "YYYY-MM-DD",
            "dependencies": ["milestoneId"],
            "responsible": "userId"
        }
     ],
```

```
"tasks": [
        "id": "uuid",
        "name": "Task Name",
        "start": "YYYY-MM-DD",
        "end": "YYYY-MM-DD",
        "assignedTo": ["userId"],
        "status": "Planned | In Progress | Completed",
        "predecessors": ["taskId"]
      }
    ],
    "baseline": {
      "approvedOn": "YYYY-MM-DD",
      "approvedBy": "userId"
    "updates": [
        "date": "YYYY-MM-DD",
        "changes": "string",
        "updatedBy": "userId"
  }
}
```

5. Schedule Input Methods

5.1 CLI Input

• Command:

```
adpa generate --key schedule-input --output ./docs/schedule.md
```

• Features:

- o Interactive prompts for milestones, tasks, dependencies.
- o Optionally load from CSV, Excel, or structured JSON.

5.2 API Submission

• Endpoint:

POST /api/v1/generate

• Payload:

Schedule data in JSON (see model above).

• Validation:

Automatic schema validation; errors returned in JSON format.

5.3 Admin Web UI

Module:

Schedule Input Wizard (Next.js interface)

• Features:

- Form-driven entry of all schedule elements.
- Real-time validation and Gantt chart preview.
- Version history and approval workflow.

5.4 Enterprise Integrations

• Jira/Azure DevOps Import:

Schedule inputs can be mapped from issues/epics/sprints.

Confluence/SharePoint Sync:

Export and synchronize schedule documentation.

6. Schedule Input Validation

• Schema Validation:

All inputs are validated using zod and/or Joi.

Business Rules:

- No circular dependencies.
- Milestone dates must be sequential and within project bounds.
- Assigned resources must exist in the project's user directory.
- Baseline updates require change reason and approver.

• Automated Testing:

Use npm test and npm run test:integration to verify schedule input handling.

7. Schedule Input Storage & Versioning

• Primary Store:

JSON files in /generated-documents/ and/or project DB (future: SQL/NoSQL).

• Change History:

- o All modifications logged with timestamps and user IDs.
- Rollback and comparison supported via CLI/API/Admin UI.

• Integration with Version Control:

adpa vcs commit to track schedule changes in Git.

8. Schedule Output and Reporting

• Document Generation:

adpa generate --key project-schedule produces
 Markdown, PDF, or Confluence page.

• API Output:

 /api/v1/documents endpoints provide download links and metadata.

• Integration Exports:

Publish to Confluence/SharePoint using dedicated commands.

9. Compliance and Standards Alignment

• PMBOK 7th Edition:

Schedule Management Plan, Baseline, Updates, and Reporting.

BABOK v3:

 Business Analysis Planning, Stakeholder Communication Schedules.

• Audit Trail:

• All schedule changes are traceable for SOX/GDPR compliance.

10. Schedule Input Roles & Permissions

Role-Based Access:

- Only Project Managers and authorized Business Analysts can approve or baseline schedules.
- Contributors can propose but not approve schedule changes.

• Audit Logging:

All actions are logged for compliance.

11. Collaboration & Automation

• Real-Time Collaboration:

 Multiple users can edit schedule inputs via Web UI (Q3 2025 roadmap).

• Automated Notifications:

 Email or system alerts for schedule changes, approvals, and deadlines.

12. Practical Guidance & Best Practices

- Start with the CLI or Admin UI for initial schedule input.
- Validate data early: Use the built-in validation before baselining.
- Integrate with Jira/DevOps for automated task/milestone population.
- **Leverage version control** for traceability and rollback.
- Export and share schedules via Confluence/SharePoint for stakeholder transparency.
- Use API for automation in CI/CD or enterprise integration scenarios.

13. Roadmap & Continuous Improvement

• Q2 2025:

- Enhanced DMBOK schedule input support.
- o Dockerized deployment of scheduling modules.

• Q3 2025:

- Real-time multi-user editing.
- Mobile schedule input and approval.

• Feedback:

• Submit improvement ideas via GitHub Issues.

14. References

- PMBOK 7th Edition: Schedule Management
- BABOK v3: Business Analysis Planning
- ADPA Documentation
- Contributing Guide

Contact:

For support or customization, reach out via **GitHub Discussions** or **email**.

This Developscheduleinput document ensures that ADPA users and developers can efficiently and compliantly manage all project schedule inputs across the full lifecycle, maximizing automation, traceability, and enterprise value.

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