

Process Guide: AI-first Project and Bug Management

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Overview

How to use AI_first for process, project management, and bug management. Use support views for context, personas for decisions, and stage action files to capture evidence.

Activation (First Session)

- Copy the `AI_first/` directory into your repo root.
- Open `AI_first/ui/PM.html` and `AI_first/ui/bugmgmt_issues.html` to identify active work and open issues.
- Choose the active project, bug, or action you are taking on.
- Create or update the stage action file once you know the active work.
- Record decisions and updates in the stage action file as you go.

Repo Layout

- Support tooling lives under `AI_first/` (process docs, BugMgmt, UI reports).
- Project planning docs live under `AI_first/projects/`.
- Add product workspace directories in downstream repos as needed (outside `AI_first/`).

Optional Automation

Use scripts only when you want to regenerate UI views. The day-to-day workflow is AI-first and doc-driven.

- `python3 AI_first/scripts/render_docs.py` to render markdown into `AI_first/ui/docs/`.
- `python3 AI_first/scripts/watch_docs.py` to auto-render while editing.
- `python3 AI_first/scripts/init_project.py --project <project> --prefix <PREFIX> --owner "Name"` to scaffold a project.
- `python3 AI_first/scripts/issues.py list --format json --output AI_first/bugmgmt/exports/json/bugmgmt_issues.json` to regenerate JSON.
- `python3 AI_first/scripts/issues.py list --format html --output AI_first/ui/bugmgmt_issues.html` to regenerate the HTML report.

Notes

- Keep content PII-free unless explicitly required.
- Prefer local assets and deterministic outputs.
- Update this guide when the process changes.

AI-first Loop

- Review Context: ask Codex to review the AI-first context before work begins.
Output: current phase and active stage action file summary.
- Activate Personas: use personas to define actions, acceptance criteria, and risks before implementation.
Output: decisions recorded in the stage action file.
- Plan and Update: update the stage action file and phase docs to reflect the next actions.
Output: updated phase definition/action plan and stage action log.
- Execute: execute actions, validate outcomes, and record results.
Output: validation notes and completion status logged.

AI Prompt Examples

- Review Context: Review `AI_first/ui/PM.html`, `AI_first/ui/bugmgmt_issues.html`, `AI_first/docs/process.md`, `AI_first/docs/projectplan.md`, and `AI_first/docs/project_wide_docs/personas.md`. Summarize the current phase and active stage action file.
- Activate Personas: Activate Project Manager Persona. Review the active stage action file and propose 3 next actions with acceptance criteria and risks.
- Plan and Update: Draft updates for the stage action file and related project docs. Note next steps and owners.
- Execute: Act as Developer Persona. Implement the chosen action, summarize changes, and draft closure notes for the stage action file (and Bug Mgmt entry if applicable).

Artifact Map (Source of Truth)

This map mirrors the AI-first Loop and points to the source-of-truth artifacts for each step.

- Review Context: `AI_first/ui/PM.html`, `AI_first/ui/bugmgmt_issues.html`, `AI_first/docs/process.md`, `AI_first/docs/projectplan.md`.
- Activate Personas: `AI_first/docs/project_wide_docs/personas.md`, `AI_first/docs/process.md`. Record decisions in the stage action file.
- Plan and Update: `AI_first/docs/templates/phase_definition_template.md`, `AI_first/docs/templates/phase_action_plan_template.md`, `AI_first/docs/templates/action_stage_template.md`.
- Execute: `AI_first/ui/PM.html` (and Bug Mgmt when work is bug-driven).
Log validation notes in the stage action file.

Personas and Windows

Default to three terminals or windows: Project Mgmt, Developer, and QA. Keep each perspective visible while AI drafts and you validate the work.

- Terminal 1 (Project Mgmt): review the project plan, active phase docs, and action plan in one view; log decisions and keep project actions aligned.
- Terminal 2 (Developer): work on implementation, track local changes, and validate results; update stage action files as work completes.

- Terminal 3 (QA): draft and verify bug entries, confirm reproduction steps, and log test notes; use Bug Mgmt to track open and closed issues.

AI Prompt Examples

- Project Manager Persona: Activate Project Manager Persona. Select the active project and phase, review the stage action file, and continue from the last update with 3 next actions and acceptance criteria.
- Developer Persona: Activate Developer Persona. Select the active project and phase, continue from the last update, and carry out the actions already identified or fix a logged bug. Summarize changes and draft updates for the stage action file and bug entry.
- QA Persona: Activate QA Persona. Select the active project and phase, continue from the last update, and either log a bug or outline a test automation suite. Draft validation notes for the stage action file or bug entry.

Persona Responsibilities

- Project Manager Persona: define phases and actions in `AI_first/docs/projectplan.md` and phase docs; confirm scope and acceptance criteria; use `AI_first/ui/PM.html` as the portfolio view.
- Developer Persona: execute the active stage action file; analyze root cause and propose fixes in BugMgmt; update status as work moves to `in_progress` and `closed`.
- QA Persona: draft bug entries with AI and confirm reproduction steps; validate fixes and update notes for closed issues; use `AI_first/ui/bugmgmt_issues.html` for audit visibility.

Project Planning & Delivery

Keep project planning AI-first: define phase intent, plan actions, then deliver and review outcomes while `PM.html` mirrors progress. Use the appropriate persona to draft, execute, and validate updates. Primary artifacts: `phase_definition.md`, `action_plan_phaseNN.md`, the active stage action file, and `AI_first/ui/PM.html`.

- Define Phase: update phase goals, scope, and acceptance criteria. Output: refreshed phase definition.
- Plan Actions: break work into actions in the action plan; create or update the active stage action file. Output: actionable plan and stage log.
- Deliver & Review: execute actions, validate outcomes against acceptance criteria, and update `PM.html` and next actions.

AI Prompt Examples

- Define Phase: Select the active project and phase, continue from the last update, and draft updates to the phase definition with goals, scope, and acceptance criteria.
- Plan Actions: Using the current phase definition, draft or update the action plan and the active stage action file with next actions, owners, and checkpoints.

- Deliver & Review: Summarize delivery progress and validation results, update the stage action file with outcomes, and list the next actions to reflect in PM.html.

Bug Management Workflow

Keep bugs AI-first: capture the issue, work the fix, and confirm closure with evidence. Use the appropriate persona to draft, execute, and validate updates. Primary artifacts: `issues.jsonl`, the active stage action file, and `AI_first/ui/bugmgmt_issues.html`.

- Open: draft a clear bug report with reproduction steps and impact; confirm summary and severity before logging. Output: new entry in `issues.jsonl`.
- Work: analyze root cause and propose a fix plan; track progress and decisions in the stage action file. Output: status updated as work moves forward.
- Close: record closure notes and validation results; reflect outcomes in project actions if needed. Output: bug closed with evidence recorded.

AI Prompt Examples

- Open: Draft a bug entry with required fields, clear reproduction steps, and impact notes. Suggest severity and summary for review.
- Work: Given this bug entry, analyze root cause, propose a fix plan, and draft updates for the stage action file and bug status.
- Close: Summarize fix outcomes, draft closure notes, and list any project plan updates needed.