Absolute Autonomous Systems Workflow Description

This client-demonstration pack documents the real implemented workflows in the static website: language settings, search recommendations, voice commands, video commands, automated consequence management, examples, training, shortcuts, contact capture, mobile navigation, and verification handover.

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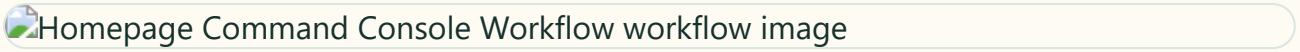
Workflow images: 12

Source: docs/workflow-description-manifest.json

1. Homepage Command Console Workflow

Show the user the live autonomous status, language layer, command controls, and consequence queue from the first screen.



Trigger / Input

User opens http://127.0.0.1:4180/index.html.

Responsible Component

index.html hero section, command bar, and app.js status renderer.

Gates

- All static assets must return HTTP 200.
- No blank hero, missing command status, or fatal console error is allowed.

Expected output

Expected output: the homepage displays the soft 3D console, translated hero text, ready command status, and working controls.

2. 11 Language Settings Workflow

Adapt every implemented screen section and dynamic component to the selected South African language.

Trigger / Input

User chooses a language from the top navigation selector.

Responsible Component

languageSelect control, translation packs, applyTranslations(), and localStorage.

Gates

- Unsupported language codes are ignored.
- Dynamic content must not keep English fallback text for non-English selections.

Expected output

Expected output: all visible app content follows the selected one of 11 South African languages.

3. Global Search Recommendation Workflow

Recommend searchable subjects from sections, examples, and training content across the whole app.

Trigger / Input

User clicks Search, presses Ctrl+K, or uses a search voice command.

Responsible Component

search panel, buildSearchIndex(), updateSearch(), and result navigation handlers.

Gates

- No-result state must remain readable.
- Result buttons must target real implemented sections.

Expected output

Expected output: recommended subjects appear immediately and jump the user to the correct section.

4. Voice Command Workflow

Let a supported browser navigate, search, read, change workflow state, and start video command mode using speech.

Trigger / Input

User clicks Voice or the hero Start voice control button.

Responsible Component

startVoice(), SpeechRecognition, handleCommand(), and command status UI.

Gates

- Unsupported browsers must show a readable fallback.
- Unknown phrases must show a no-match state instead of failing silently.

Expected output

Expected output: the command bar shows what happened and the requested action runs or displays a clear fallback.

5. Video Motion Command Workflow

Use camera motion to move between sections or open search without using the keyboard.

Trigger / Input

User clicks Video and grants camera access.

Responsible Component

startVideo(), getUserMedia(), motion canvas, and analyzeMotion().

Gates

- Missing camera or denied permission must show a readable fallback.
- Motion commands are rate-limited to prevent accidental rapid navigation.

Expected output

Expected output: camera command mode becomes active and deliberate motion updates navigation or search state.

6. Automated Consequence Management Workflow

Show automated accountability without requiring the user to manually trigger every follow-up.

Trigger / Input

The page loads and the consequence timer starts automatically.

Responsible Component

rule packs, tickRules(), renderRules(), and consequence section queue UI.

Gates

- Rules must stay visible in every language.
- Owner, severity, status, and next check must remain present.

Expected output

Expected output: users see a live consequence queue with owner, severity, status, and next action in the selected language.

7. 20 Demonstration Examples Workflow

Give prospective users realistic scenarios that make the system value concrete.

Trigger / Input

User opens Examples or filters the example list.

Responsible Component

demo subject packs, renderExamples(), and examples filter control.

Gates

- Every language must render exactly 20 examples.
- Filtering must never leave the grid in a broken layout state.

Expected output

Expected output: the user can browse or filter 20 realistic examples and see the human value of automation.

8. Training, Tutorial, and Manual Workflow

Teach users how to use language settings, search, voice, video, consequence management, and contact flows.

Trigger / Input

User opens Training or the full user manual.

Responsible Component

training section, docs/USER_MANUAL.html, screenshot evidence, and workflow PDF.

Gates

- Manual link must resolve to a real file.
- Screenshot paths must point to generated verification images.

Expected output

Expected output: the user has tutorials, screenshots, and multilingual training material for the implemented workflows.

9. Shortcut Prompt Workflow

Give users quick command phrases for search, examples, language switching, video, and reading the page.

Trigger / Input

User opens the command centre or reads the prompt pills.

Responsible Component

prompt packs, renderPrompts(), and handleCommand().

Gates

- Prompt text must match implemented command behavior.
- Unmatched prompt attempts must produce a readable no-match state.

Expected output

Expected output: users know the short commands and the app responds with visible action status.

10. Contact Request Capture Workflow

Capture a valid local request and give the user immediate confirmation without a backend dependency.

Trigger / Input

User completes the Contact form and submits it.

Responsible Component

contactForm submit handler and form status UI.

Gates

- The form must not navigate away from the static page.
- Success state must be visible to the user.

Expected output

Expected output: the form clears and the user sees that the next response task has been created.

11. Mobile Navigation Workflow

Keep the app usable on narrow screens without clipping or hidden workflows.

Trigger / Input

User opens the site on a mobile viewport and taps the menu button.

Responsible Component

responsive CSS, menuToggle, and navLinks state.

Gates

- No horizontal overflow is allowed.
- Menu state must become visible when opened.

Expected output

Expected output: mobile users can open navigation and access every implemented section without layout overflow.

12. Verification and Handover Evidence Workflow

Prove that the site, endpoints, workflows, screenshots, defects, and repair records are ready for handover.

Trigger / Input

Engineer runs npm run verify:all.

Responsible Component

tools/verify-site.cjs, tools/full-e2e-regression.cjs, workflow generator, and output/evidence.

Gates

- Open defects must be zero.
- Endpoint checks, workflow images, PDF verification, and dependency audit must pass.

Expected output

Expected output: evidence files show PASS, no open defects, validated workflow pack, and go-live readiness.