

Chapter A

Page-by-Page Test Coverage

Table A.1 groups the automated tests by page or shared subsystem. This mapping supports the testing chapter by showing how the test suite relates to the user-facing structure of the PANTHER Web Interface.

Area	Coverage	Tests
Dashboard (/)	Verifies dashboard rendering, stat-card values from mocked services, quick-action navigation links, and empty-state behaviour.	7
Config Builder (/config)	Verifies tabs, headings, core action buttons, section visibility, import/load/save dialog flows, form schema helpers, nested widget selection, generic Pydantic form behaviour, config file validation, and path/security rules.	94
Topology (/topology)	Verifies YAML-to-graph transformation, aggregation and deduplication, scaling rules, defaults, network metadata extraction, click-to-navigation payload correctness, test-index resolution, URL encoding, and graph option generation.	19
Experiments (/experiments)	Verifies experiment launch and log panels, idle-state rendering, warning behaviour when no configuration is selected, and log replay UI.	7
Results (/results)	Verifies summary cards, tabular rendering, search filtering, status display, and detail dialogs opened from row selection.	9
Plugins (/plugins)	Verifies plugin card rendering, tab/category filtering, metadata chips and badges, empty-state behaviour, and plugin-form metadata extraction.	16
Cross-page, app shell, and shared services	Verifies app import and lazy-load behaviour, shared component exports, service-layer contracts, event subscription, filtering, batching, and persistence for live UI updates.	105
Full workflow E2E	Verifies route-level page loading and basic cross-page navigation journeys across the main pages.	8

Table A.1: Page-by-page overview of automated test coverage.