

Testing Framework – Overview

Centric PLM supports both **UI automation** (Playwright-based browser testing) and **API automation** (HTTP-based validation).

It provides **dynamic environment management**, **centralized data control**, and **automatic reporting** — all in one unified structure.

Framework Architecture

CentricPLM/

```
  └── ui/          # UI Testing (Browser Automation)
      ├── features/    # BDD Feature Files
      ├── step_definitions/ # Step Definitions
      ├── pom/         # Page Object Model (Reusable UI Actions)
      ├── test_data/    # UI Test Data & Credentials
      └── containers/   # Shared Runtime Storage

  └── api/          # API Testing (HTTP Automation)
      ├── features/    # BDD Feature Files
      ├── step_definitions/ # Step Implementations
      ├── payloads/     # Request/Response Payload Classes
      ├── framework/    # Base API Client
      ├── test_data/    # Endpoint & Data Configurations
      └── containers/   # Shared API State Storage

  └── config/        # Environment & Credential Management
      └── global_config.py

  └── reports/       # Reports Directory (UI + API)
      ├── index.html    # Unified Report Index
      ├── ui/           # UI Reports
      └── api/          # API Reports

  └── run_tests.py    # Combined Runner (UI + API)
  └── generate_api_reports.py # API Runner (Auto HTML Reports)
  └── generate_reports.py  # UI Runner (Auto HTML Reports)
  └── requirements.txt  # Python Dependencies
```

Key Modules Explained

Configuration

- `global_config.py` — central environment manager (DEV, SIT, UAT, PROD)
- Defines:
 - Base URLs
 - Credentials
 - Test modes (UI / API / BOTH)

API Layer

- Handles API testing with **cookie-based authentication** (`SecurityTokenURL`)
- Includes payload builders (`login_payload.py`, `style_payload.py`)
- Supports POST, GET, PATCH, and DELETE requests with built-in logging
- Manages dynamic test data through `variable_container.py`

UI Layer

- Built using **Playwright** for browser automation
- Follows the **Page Object Model (POM)** pattern:
 - Easy locator management
 - Reusable page interactions
- BDD test flow:
 - `.feature` files → readable test scenarios
 - `step_definitions/` → implementation logic

- Data isolation using `ui_container.py`

Reports

- Automatically generated **HTML, Console, and JSON** reports
 - Auto-opens after test execution
 - Maintains both **UI** and **API** reports separately with a unified index
-

Execution Commands

Type	Command	Output
Run UI Tests	<code>python3 generate_reports.py</code>	UI automation + HTML report
Run API Tests	<code>python3 generate_api_reports.py</code>	API flow + HTML & console reports
Run Both	<code>python3 run_tests.py</code>	Full regression suite (UI + API)

Core Capabilities

Category	Highlights
Environment Control	Switch between UAT, PROD, etc. from config
Test Data Management	Centralized JSON & Python files
UI Automation	Playwright with POM for modular actions
API Automation	RESTful client with reusable payloads
Data Sharing	Containers for step-level and module-level reuse
Error Handling	Built-in logging, retries, and validations
Reporting	Rich HTML, JSON, and console summaries

Scalability	Plug-and-play structure for new tests & modules
--------------------	---

API Style Creation Flow (Located in `api/`)

This part of the framework is handled inside the `api/` folder, which automates backend validation through API calls.

Flow Steps (and where they live):

Step	What It Does	Framework Location
Login to PLM API	Authenticates using credentials and generates a secure token	<code>api/payloads/login_payload.py</code> + <code>api/framework/base_api.py</code>
Fetch existing reference IDs	Retrieves valid IDs like category, season, and product type for style creation	<code>api/step_definitions/api_steps.py</code>
Create new Style (POST /styles)	Submits the style creation payload using Base API client	<code>api/payloads/style_payload.py</code> + <code>api/framework/base_api.py</code>
Validate response (GET /styles/{id})	Confirms that the new style exists in the database	<code>api/step_definitions/api_steps.py</code>

Store data in container	Saves style ID, code, and other response data for later UI use	<code>api/containers/variable_container.py</code>
--------------------------------	--	---

UI Verification Flow (Located in `ui/`)

This part of the framework, found under the `ui/` folder, automates frontend validation using Playwright.

It verifies that the style created via API is **visible and correct** in the PLM web application.

Flow Steps (and where they live):

Step	What It Does	Framework Location
Launch browser session	Opens the Centric PLM web application	<code>ui/step_definitions/plm_ui_steps.py</code>
Login to PLM	Logs in using credentials from test data	<code>ui/test_data/login_credentials.json</code>
Search for created style	Finds the API-created	<code>ui/pom/plm_style_creation_page.py</code>

(by code)	style in the UI grid	
Validate lifecycle and brand details	Confirm style properties match API data	<code>ui/pom/plm_style_creation_page.py + ui/step_definitions/plm_ui_steps.py</code>
Capture screen shot & store in report	Takes screenshot and attaches to report	<code>ui/tests/validate_and_store_style_details.py + reports/ui/</code>

Connection Between API and UI Layers

Component	Purpose	Connection
<code>variable_content.py</code>	Stores data like style ID and code	Shared between API & UI
<code>reports/</code>	Stores combined HTML reports for UI and API	Accessible to all runs
<code>config/global_config.py</code>	Handles environment, credentials, and mode	Controls both UI & API

`run_tests.py`

Runs UI + API together

Unified
execution entry
point

CORE TESTING FRAMEWORKS

- **Playwright** – Browser automation for UI testing
 - **Pytest** – Core Python testing framework
 - **Pytest-BDD** – Behavior-Driven Development (Gherkin support)
 - **Pytest-Asyncio** – Asynchronous test execution
 - **Pytest-HTML** – HTML report generation
 - **Pytest-JSON-Report** – Machine-readable test output
 - **Allure-Pytest** – Advanced test analytics and professional reporting
-

API TESTING

- **HTTPX** – Asynchronous HTTP client (primary)
 - **Requests** – Synchronous HTTP client (fallback)
 - **JSON** – Serialization and deserialization
 - **Cookie Management** – Session persistence and authentication handling
-

UI TESTING

- **Playwright** – Cross-browser automation

- **Page Object Model (POM)** – Reusable UI design pattern
 - **Dojo/Dijit Framework Handling** – Centric PLM-specific UI elements
 - **Locator Strategies** – XPath, CSS, and data attribute locators
 - **JavaScript Execution** – Direct DOM interactions and custom scripts
-

REPORTING & VISUALIZATION

- **HTML Reports** – Technical and readable test results
 - **JSON Reports** – Data-driven report storage
 - **Allure Reports** – Executive-level analytics and dashboards
 - **Console Output Capture** – Detailed runtime logs
 - **Screenshots & Visual Evidence** – Automatic captures for validation
 - **Custom Styling** – CSS/JS enhancements for report presentation
-

CONFIGURATION & DATA MANAGEMENT

- **JSON Configuration Files** – Environment-specific settings
 - **YAML Support** – Optional config format
 - **Environment Variables** – Dynamic runtime configuration
 - **Centralized Test Data** – Shared data for UI & API tests
 - **Secure Credential Storage** – Encrypted login credentials
-

FRAMEWORK ARCHITECTURE

- **Page Object Model (POM)** – Organized UI automation structure
 - **Step Definitions** – BDD implementation layer
 - **Feature Files** – Human-readable Gherkin test cases
 - **Data Containers** – Shared test data across modules
 - **Base Classes** – Common reusable utilities
 - **Utility Functions** – Helpers for logging, parsing, and validation
-

PYTHON ECOSYSTEM

- **Python 3.9+** – Core language
 - **Asyncio** – Async operations and concurrency
 - **Pathlib** – File path management
 - **Datetime** – Time and scheduling utilities
 - **Subprocess** – Process handling for parallel runs
 - **Webbrowser** – Auto-open reports after test completion
-

UI FRAMEWORK INTEGRATION

- **Dojo/Dijit Components** – Handling dynamic Centric PLM widgets
- **Dynamic Locators** – For unique widget IDs (`widget_uniqName_*`)
- **Stable Data Locators** – Using `data-csi-form-field` attributes

- **Dropdown & Dialog Management** – Complex UI interactions
 - **Grid & Table Operations** – Automated verification of records
-

AUTHENTICATION & SECURITY

- **Cookie-Based Authentication** – Session management for PLM
 - **Token Management** – API authentication lifecycle
 - **Credential Encryption** – Secured credential handling
 - **Session Persistence** – Continuous login state across tests
 - **CSRF Protection** – Handling Centric PLM security tokens
-

MONITORING & DEBUGGING

- **Detailed Console Logging** – Step-by-step output
- **Error Handling** – Graceful failure and retry logic
- **Retry Mechanisms** – For flaky or delayed test cases
- **Screenshot Capture** – For visual debugging
- **Response Time Metrics** – API and UI performance tracking
- **Status Tracking** – Continuous test progress updates
- **Pytest Integration** – Seamless test discovery
- **HTML/Allure Reports** – Auto-publish reports post-run
- **Cross-Environment Deployment** – Run on any test stage (DEV → PROD)

PROJECT STRUCTURE OVERVIEW

CentricPLM/

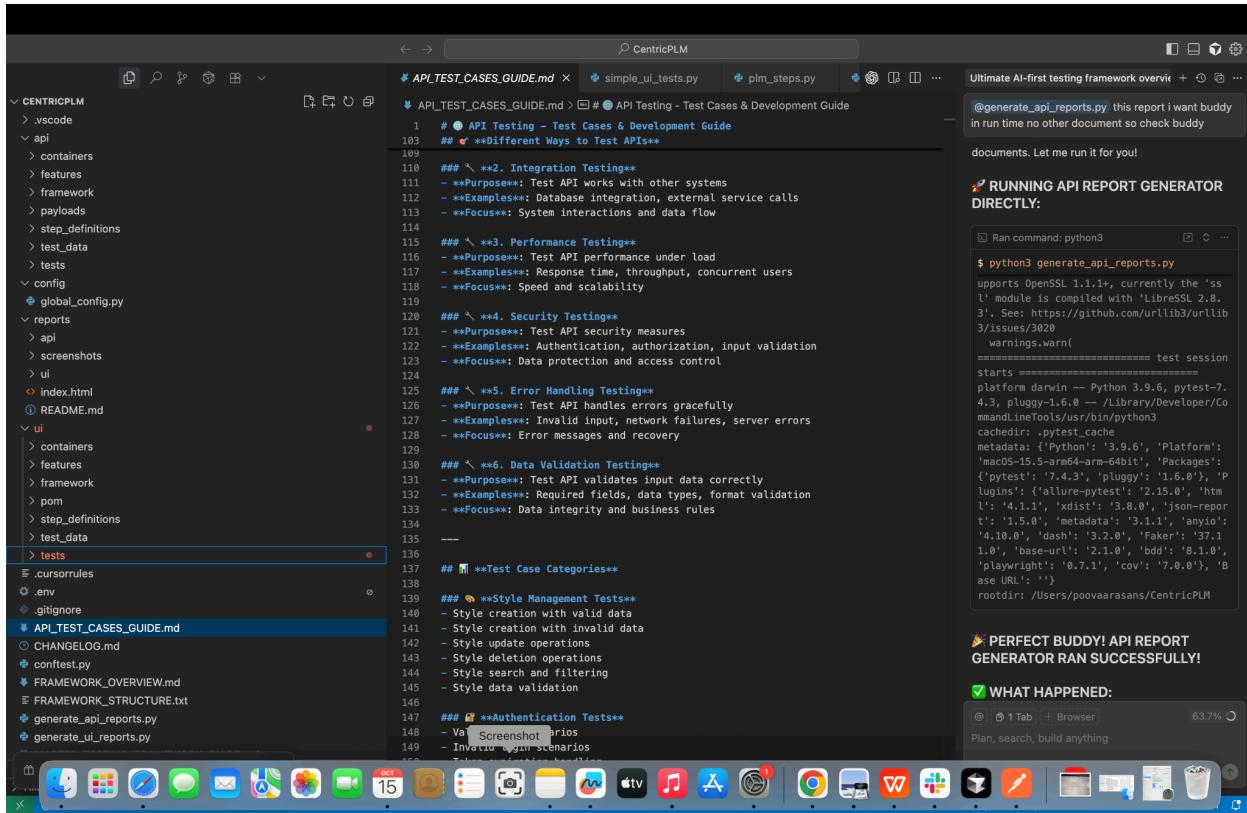
```
  └── api/      # API testing components
  └── ui/       # UI testing components
  └── config/   # Environment configuration
  └── reports/  # All reports (HTML, JSON, Allure)
  └── test_data/ # Test inputs and credentials
  └── features/  # BDD feature files
  └── step_definitions/ # Implementation of steps
  └── utils/     # Utility and helper modules
```

TEST EXECUTION MODES

- **UI Mode** – Runs Playwright UI automation only
 - **API Mode** – Executes HTTP-based API tests only
 - **Combined Mode** – Runs both API & UI tests together
 - **Regression Mode** – Executes the entire suite for validation
-

DATA HANDLING

- **VariableContainer** – Stores API runtime data
- **UIContainer** – Maintains UI session data
- **StyleData Container** – Holds style-specific details
- **Test Data Classes** – Structured data management



CentricPLM

API_TEST_CASES_GUIDE.md

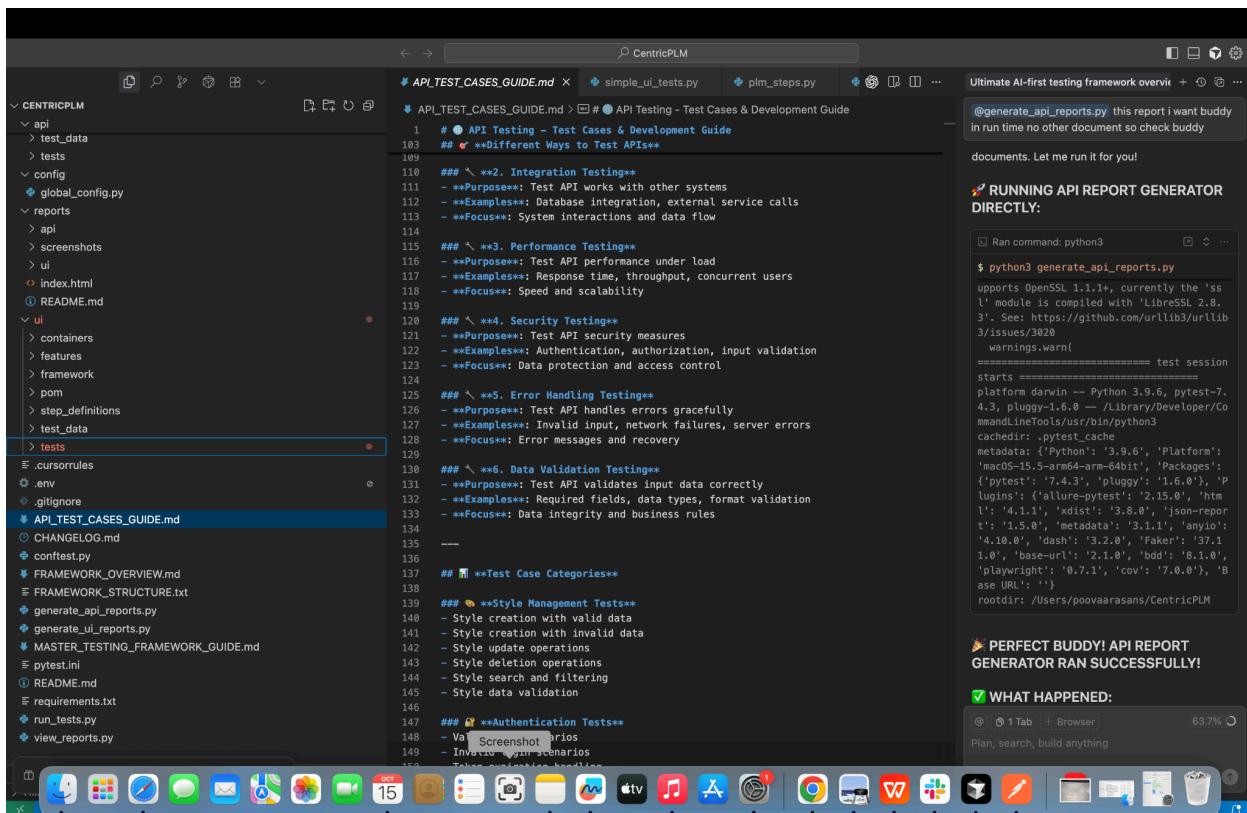
```
1 # API Testing - Test Cases & Development Guide
103 ## 🌐 **Different Ways to Test APIs**
109
110 #### ✨ **2. Integration Testing**
111 - **Purpose**: Test API works with other systems
112 - **Examples**: Database integration, external service calls
113 - **Focus**: System interactions and data flow
114
115 #### ✨ **3. Performance Testing**
116 - **Purpose**: Test API performance under load
117 - **Examples**: Response time, throughput, concurrent users
118 - **Focus**: Speed and scalability
119
120 #### ✨ **4. Security Testing**
121 - **Purpose**: Test API security measures
122 - **Examples**: Authentication, authorization, input validation
123 - **Focus**: Data protection and access control
124
125 #### ✨ **5. Error Handling Testing**
126 - **Purpose**: Test API handles errors gracefully
127 - **Examples**: Invalid input, network failures, server errors
128 - **Focus**: Error messages and recovery
129
130 #### ✨ **6. Data Validation Testing**
131 - **Purpose**: Test API validates input data correctly
132 - **Examples**: Required fields, data types, format validation
133 - **Focus**: Data integrity and business rules
134
135
136 ## 📊 **Test Case Categories**
137
138 #### 🎨 **Style Management Tests**
139 - Style creation with valid data
140 - Style creation with invalid data
141 - Style update operations
142 - Style deletion operations
143 - Style search and filtering
144 - Style data validation
145
146 #### 🔒 **Authentication Tests**
147 - Valid Screenshot Stories
148 - Invalid Screenshot Stories
149
150
```

Ran command: python3

```
$ python3 generate_api_reports.py
upports OpenSSL 1.1.1+, currently the 'ss' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
warnings.warn(
=====
test session starts =====
platform darwin -- Python 3.9.6, pytest-7.4.3, pluggy-1.6.0 -- /Library/Developer/CommandLineTools/usr/bin/python3
cachedir: .pytest_cache
metadata: {'Python': '3.9.6', 'Platform': 'macOS-15.5-arm64-64bit', 'Packages': {'pytest': '7.4.3', 'pluggy': '1.6.0'}, 'Plugins': {'allure-pytest': '2.15.0', 'htm': '4.1.1', 'xdist': '3.8.0', 'json-report': '1.5.0', 'metadata': '3.1.1', 'anyio': '4.10.0', 'dash': '3.2.0', 'Faker': '37.1.0', 'base-url': '2.1.0', 'bdd': '8.1.0', 'playwright': '0.7.1', 'cov': '7.0.0'}, 'Base URL': ''}
rootdir: /Users/poovaarasans/CentricPLM
```

PERFECT BUDDY! API REPORT GENERATOR RAN SUCCESSFULLY!

WHAT HAPPENED:



CentricPLM

API_TEST_CASES_GUIDE.md

```
1 # API Testing - Test Cases & Development Guide
103 ## 🌐 **Different Ways to Test APIs**
109
110 #### ✨ **2. Integration Testing**
111 - **Purpose**: Test API works with other systems
112 - **Examples**: Database integration, external service calls
113 - **Focus**: System interactions and data flow
114
115 #### ✨ **3. Performance Testing**
116 - **Purpose**: Test API performance under load
117 - **Examples**: Response time, throughput, concurrent users
118 - **Focus**: Speed and scalability
119
120 #### ✨ **4. Security Testing**
121 - **Purpose**: Test API security measures
122 - **Examples**: Authentication, authorization, input validation
123 - **Focus**: Data protection and access control
124
125 #### ✨ **5. Error Handling Testing**
126 - **Purpose**: Test API handles errors gracefully
127 - **Examples**: Invalid input, network failures, server errors
128 - **Focus**: Error messages and recovery
129
130 #### ✨ **6. Data Validation Testing**
131 - **Purpose**: Test API validates input data correctly
132 - **Examples**: Required fields, data types, format validation
133 - **Focus**: Data integrity and business rules
134
135
136 ## 📊 **Test Case Categories**
137
138 #### 🎨 **Style Management Tests**
139 - Style creation with valid data
140 - Style creation with invalid data
141 - Style update operations
142 - Style deletion operations
143 - Style search and filtering
144 - Style data validation
145
146 #### 🔒 **Authentication Tests**
147 - Valid Screenshot Stories
148 - Invalid Screenshot Stories
149
150
```

Ran command: python3

```
$ python3 generate_api_reports.py
upports OpenSSL 1.1.1+, currently the 'ss' module is compiled with 'LibreSSL 2.8.3'. See: https://github.com/urllib3/urllib3/issues/3020
warnings.warn(
=====
test session starts =====
platform darwin -- Python 3.9.6, pytest-7.4.3, pluggy-1.6.0 -- /Library/Developer/CommandLineTools/usr/bin/python3
cachedir: .pytest_cache
metadata: {'Python': '3.9.6', 'Platform': 'macOS-15.5-arm64-64bit', 'Packages': {'pytest': '7.4.3', 'pluggy': '1.6.0'}, 'Plugins': {'allure-pytest': '2.15.0', 'htm': '4.1.1', 'xdist': '3.8.0', 'json-report': '1.5.0', 'metadata': '3.1.1', 'anyio': '4.10.0', 'dash': '3.2.0', 'Faker': '37.1.0', 'base-url': '2.1.0', 'bdd': '8.1.0', 'playwright': '0.7.1', 'cov': '7.0.0'}, 'Base URL': ''}
rootdir: /Users/poovaarasans/CentricPLM
```

PERFECT BUDDY! API REPORT GENERATOR RAN SUCCESSFULLY!

WHAT HAPPENED:

CentricPLM

```

CENTRICPLM
├── vscode
└── api
    ├── containers
    │   └── variable_container.py
    ├── features
    │   ├── api_login.feature
    │   └── style_management.feature
    ├── framework
    │   └── base_api.py
    ├── payloads
    │   ├── __init__.py
    │   ├── login_payload.py
    │   └── style_payload.py
    ├── step_definitions
    │   └── api_steps.py
    └── test_data
        ├── api_endpoints.json
        ├── style_test_data.py
        └── tests
            ├── test_api_login.py
            └── test_style_management.py
    └── config
        └── global_config.py
    └── reports
        └── api
            ├── api_console_report.html
            ├── api_demo_report.html
            ├── api_test_report.html
            └── api_test_results.json
    └── screenshots
    └── ui
        ├── index.html
        └── README.md

```

FRAMEWORK_STRUCTURE.txt

```

1  # UNIVERSAL TESTING FRAMEWORK STRUCTURE
2  =====
3
4  # CentricPLM/
5      # UI TESTING (Browser Automation)
6          # ui/features/           - BDD Feature Files
7          # ui/step_definitions/  - BDD Step Implementations
8          # ui/pom/                - Page Object Model
9          # ui/test_data/         - Test Data & Credentials
10         # ui/containers/       - Data Storage
11
12     # API TESTING (HTTP Requests)
13         # api/features/        - BDD Feature Files
14         # api/step_definitions/ - BDD Step Implementations
15         # api/payloads/        - Request/Response Classes
16         # api/framework/       - HTTP Client
17         # api/test_data/       - API Test Data
18         # api/containers/      - Data Storage
19
20     # CONFIGURATION
21         # config/global_config.py - Environment & Mode Management
22
23     # REPORTS (Auto-Generated)
24         # reports/index.html   - Universal Index
25         # reports/ui/          - UI Test Reports
26         # reports/api/         - API Test Reports
27
28     # TEST RUNNERS
29         # generate_reports.py  - UI Test Runner
30         # generate_api_reports.py - API Test Runner (Auto-Open)
31         # run_tests.py         - Universal Runner
32
33     # DEPENDENCIES
34         # requirements.txt      - Python Packages
35
36 =====
37 # HOW TO USE:
38
39     # UI Testing:
40         python3 generate_reports.py
41
42     # API Screenshot:
43         python3 generate_api_reports.py

```

Ultimate AI-first testing framework overview

buddy give this complete stack tech buddy what we use that all buddy

- DATA MANAGEMENT
 - StyleData Container - UI test data
 - UIContainer - UI state management
 - VariableContainer - API test data
 - Login Credentials - Authentication data
 - Test Data Classes - Structured data
- WORKFLOW SUPPORT
 - BDD Scenarios - Business-readable tests
 - Step Reusability - DRY principle
 - Data-Driven Testing - Multiple test cases
 - Parallel Execution - Performance
 - Cross-Browser Testing - Compatibility

BUDDY, THIS IS THE COMPLETE TECH STACK!

We're using a modern, comprehensive testing framework that supports:

- UI Testing (Playwright + POM)
- API Testing (HTTPX + Pytest)
- BDD Testing (Pytest-BDD + Gherkin)
- Professional Reporting (HTML + Allure + JSON)
- Multi-Environment (DEV/SIT/UAT/PROD)
- Cross-Platform (Windows/macOS/Linux)
- Enterprise Integration (CI/CD ready)

This is a production-ready, enterprise-grade testing framework! 🚀

Review Changes

1 Tab | + Browser | 65.0% | Plan, search, build anything

CentricPLM

```

CENTRICPLM
├── reports
├── api
> screenshots
└── ui
    ├── index.html
    ├── test_report.html
    └── test_results.json
    └── test_summary.txt
    └── ui_test_report.html
    └── ui_test_results.json
    └── ui_test_summary.txt
    └── index.html
    └── README.md
    └── ui
        ├── containers
        └── ui_container.py
    └── features
        ├── plm_complete_style_workflow.feature
        ├── plm_style_creation.feature
        ├── plm_style_properties.feature
    └── framework
        ├── dji_t_combo.py
        ├── logger.py
        └── simple_logger.py
    └── pom
        ├── __init__.py
        ├── base_page.py
        ├── plm_locators.py
        ├── plm_login_page.py
        ├── plm_style_creation_page.py
        ├── plm_style_properties_locators.py
    > step_definitions
    > test_data
    > tests
    └── cursors
    └── env

```

Framework Structure

```

1  # UNIVERSAL TESTING FRAMEWORK STRUCTURE
2 =====
3
4  CentricPLM/
5      └── UI TESTING (Browser Automation)
6          ├── ui/features/           - BDD Feature Files
7          ├── ui/step_definitions/   - BDD Step Implementations
8          ├── ui/pom/               - Page Object Model
9          ├── ui/test_data/         - Test Data & Credentials
10         └── ui/containers/       - Data Storage
11
12  └── API TESTING (HTTP Requests)
13      ├── api/features/          - BDD Feature Files
14      ├── api/step_definitions/  - BDD Step Implementations
15      ├── api/payloads/          - Request/Response Classes
16      ├── api/framework/         - HTTP Client
17      ├── api/test_data/         - API Test Data
18      └── api/containers/        - Data Storage
19
20  └── CONFIGURATION
21      └── config/global_config.py - Environment & Mode Management
22
23  └── REPORTS (Auto-Generated)
24      ├── reports/index.html     - Universal Index
25      ├── reports/ui/            - UI Test Reports
26      └── reports/api/           - API Test Reports
27
28  └── TEST RUNNERS
29      ├── generate_reports.py    - UI Test Runner
30      ├── generate_api_reports.py - API Test Runner (Auto-Open)
31      └── run_tests.py          - Universal Runner
32
33  └── DEPENDENCIES
34      └── requirements.txt       - Python Packages
35
36  =====
37  HOW TO USE:
38
39  UI Testing:
40      python3 generate_reports.py
41
42  API Screenshot:
43      python3 generate_api_reports.py

```

Buddy, this is the complete tech stack!

We're using a modern, comprehensive testing framework that supports:

- UI Testing (Playwright + POM)
- API Testing (HTTPX + Pytest)
- BDD Testing (Pytest-BDD + Gherkin)
- Professional Reporting (HTML + Allure + JSON)
- Multi-Environment (DEV/SIT/UAT/PROD)
- Cross-Platform (Windows/macOS/Linux)
- Enterprise Integration (CI/CD ready)

This is a production-ready, enterprise-grade testing framework! 🚀

Review Changes

1 Tab | + Browser | 65.0% | Plan, search, build anything

CentricPLM

```

CENTRICPLM
├── ui
└── framework
    ├── logger.py
    └── simple_logger.py
    └── pom
        ├── __init__.py
        ├── base_page.py
        ├── plm_locators.py
        ├── plm_login_page.py
        ├── plm_style_creation_page.py
        ├── plm_style_properties_locators.py
    > step_definitions
    ├── plm_style_properties_steps.py
    ├── plm_style_validation_and_navigation_steps.py
    └── plm_ui_steps.py
    └── test_data
        └── login_credentials.json
        └── plm_test_data.py
    └── tests
        ├── final_step_by_step_navigation.py
        └── README.md
    └── cursors
    └── env
    └── .gitignore
    └── API_TEST_CASES_GUIDE.md
    └── CHANGELOG.md
    └── conftest.py
    └── FRAMEWORK_OVERVIEW.md
    └── FRAMEWORK_STRUCTURE.txt
        ├── generate_api_reports.py
        ├── generate_ui_reports.py
    └── MASTER_TESTING_FRAMEWORK_GUIDE.md
    └── pytest.ini
    └── README.md
    └── requirements.txt

```

Framework Structure

```

1  # UNIVERSAL TESTING FRAMEWORK STRUCTURE
2 =====
3
4  CentricPLM/
5      └── UI TESTING (Browser Automation)
6          ├── ui/features/           - BDD Feature Files
7          ├── ui/step_definitions/   - BDD Step Implementations
8          ├── ui/pom/               - Page Object Model
9          ├── ui/test_data/         - Test Data & Credentials
10         └── ui/containers/       - Data Storage
11
12  └── API TESTING (HTTP Requests)
13      ├── api/features/          - BDD Feature Files
14      ├── api/step_definitions/  - BDD Step Implementations
15      ├── api/payloads/          - Request/Response Classes
16      ├── api/framework/         - HTTP Client
17      ├── api/test_data/         - API Test Data
18      └── api/containers/        - Data Storage
19
20  └── CONFIGURATION
21      └── config/global_config.py - Environment & Mode Management
22
23  └── REPORTS (Auto-Generated)
24      ├── reports/index.html     - Universal Index
25      ├── reports/ui/            - UI Test Reports
26      └── reports/api/           - API Test Reports
27
28  └── TEST RUNNERS
29      ├── generate_reports.py    - UI Test Runner
30      ├── generate_api_reports.py - API Test Runner (Auto-Open)
31      └── run_tests.py          - Universal Runner
32
33  └── DEPENDENCIES
34      └── requirements.txt       - Python Packages
35
36  =====
37  HOW TO USE:
38
39  UI Testing:
40      python3 generate_reports.py
41
42  API Screenshot:
43      python3 generate_api_reports.py

```

Buddy, this is the complete tech stack!

We're using a modern, comprehensive testing framework that supports:

- UI Testing (Playwright + POM)
- API Testing (HTTPX + Pytest)
- BDD Testing (Pytest-BDD + Gherkin)
- Professional Reporting (HTML + Allure + JSON)
- Multi-Environment (DEV/SIT/UAT/PROD)
- Cross-Platform (Windows/macOS/Linux)
- Enterprise Integration (CI/CD ready)

This is a production-ready, enterprise-grade testing framework! 🚀

Review Changes

1 Tab | + Browser | 65.0% | Plan, search, build anything