Xavier Gonzalez Arriola —— 2025-12-14

GitHub Repository: xaviergonzalezarriolaliza/HubOS_XGA

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HubOS QA Engineer Homework XGA

Test Execution Summary (2025-12-14)

- **Total tests:** 304
- **Passed:** 304
- **Failed:** 0
- **Playwright HTML report:** playwright-report/report_2025-12-14_16-37-08/index.html

All tests passed successfully in the final run. See the HTML report for detailed results and screenshots.

Overview

This document explains how the provided Playwright test suite fully satisfies the requirements for the HubOS QA Engineer Homework. It also describes the Page Object Model (POM) used, details additional edge and security tests, and provides links to selected test run reports.

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Requirements Coverage

Requirement	Test(s)	Description
Login with correct room and surname (with leading zero)	should login with correct room and surname (A), (B)	Validates standard login with '0440' and 'Willem Dafoe'
Login with room number without leading zero	should login with room number without leading zero (A), (B)	Validates new feature: login with '440' and 'Willem Dafoe'
Regression: incorrect room	should not login with incorrect room number (A), (B)	Ensures login fails for invalid room
Regression: incorrect surname	should not login with incorrect surname (A), (B)	Ensures login fails for invalid surname

Requirement	Test(s)	Description
Empty fields	should show error for empty fields (A), (B)	Ensures error is shown if fields are empty
Edge: special chars, long input, whitespace	Multiple tests (see below)	Validates robustness against edge cases
Security: partial name	should (not) allow login with partial name (security proof)	Demonstrates current vulnerability

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Test Table Example

Test Name	Input Room	Input Name	Expected Result
should login with correct room and surname (A)	0440	Willem Dafoe	Success, main menu shown
should login with correct room and surname (B)	0440	Willem Dafoe	Success, main menu shown
should login with room number without leading zero (A)	440	Willem Dafoe	Success, main menu shown
should login with room number without leading zero (B)	440	Willem Dafoe	Success, main menu shown
should not login with incorrect room number (A)	9999	Willem Dafoe	Error, stay on login
should not login with incorrect surname (A)	0440	Follet Verd	Error, stay on login

Test Name	Input Room	Input Name	Expected Result
should show error for empty fields (A)			Error, stay on login
should login and open chat (A)	0440	Willem Dafoe	Success, chat opens in new tab, 'Alex Hub OS' visible
should login and open chat (B)	0440	Willem Dafoe	Success, chat opens in new tab, 'Alex Hub OS' visible

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Additional Edge and Security Tests

- **Chat Feature (A/B):**
  - Login: '0440', Name: 'Willem Dafoe', click 'Hablamos?' → New tab opens, 'Alex Hub OS' visible (A and B variants)
- **Special Characters:**
  - Room: '@#!', Name: 'Willem Dafoe' → Error
  - Room: '0440', Name: 'D@foe' → Error
- **Long Inputs:**
  - Room: '0' * 50, Name: 'Willem Dafoe' → Error
  - Room: '0440', Name: 'Willem Dafoe' * 10 → Error
- **Whitespace:**
  - Room: ' 0440 ', Name:' Willem Dafoe ' → Error
- **Partial Name (Security Proof):**
  - Room: '440', Name: 'Will' → Currently allows login (should not)
  - Room: '0440', Name: 'Daf' → Currently allows login (should not)

Page Object Model (POM)

We use a POM for maintainability and clarity. The `LoginPage` class encapsulates all selectors and actions for the login page, such as filling fields and clicking the login button. This abstraction allows tests to be concise and robust against UI changes.

Test Cases That Should (Not) Happen

- **Should happen:**
  - Login only succeeds with exact room and surname (with or without leading zero).

- All invalid or malformed inputs are rejected with a clear error message.
- **Should NOT happen:**
  - Login with partial names (e.g., 'Will' for 'Willem Dafoe') should not succeed (currently, it does—security issue).
  - Login with extra/double zeros or special characters should not succeed.

Selected Test Run Reports

- 2025-12-14: 304 tests passed
- 2025-12-14: 256 tests passed
- 2025-12-13: 224 tests passed
- 2025-12-12: 216 tests passed

Open these HTML files locally for detailed results and screenshots.

Conclusion

All requirements are fully satisfied, with additional edge, chat feature, and security tests provided. The test suite is robust, maintainable, and ready for review. All 304 tests, including chat A/B and new scenarios, passed on all browsers/devices (2025-12-14).

Xavier Gonzalez Arriola