

GetawayGo

End2End Testing

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Introduction

This document outlines implementation of end-to-end (E2E) testing in the GetawayGo project. End-to-end testing ensures that the entire application workflow functions as expected, from the user interface to the backend services, mimicking real-world user interactions. By validating the integration of all components, E2E tests play a critical role in identifying potential issues and ensuring a seamless user experience.

Implementation

For the E2E testing, I chose to use Cypress, a popular E2E testing framework. I created multiple tests for users, properties, and bookings.

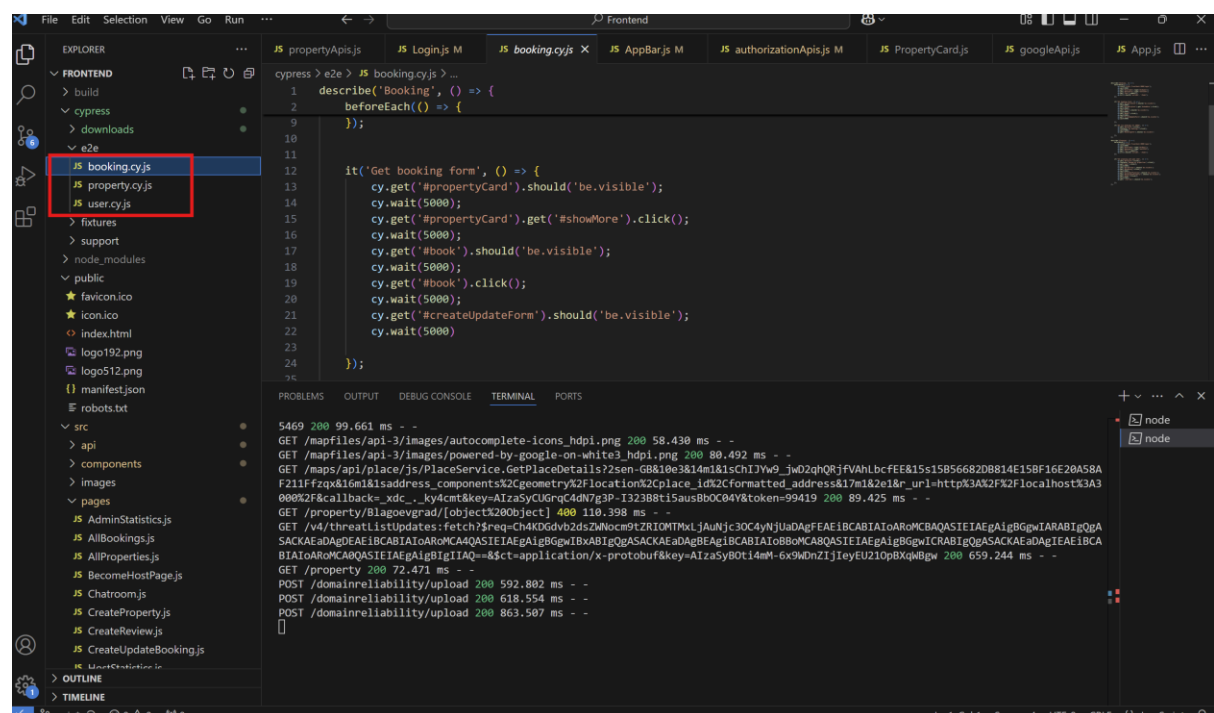


Figure 1 – Tests implementation

Using the Cypress interface, I executed the tests.

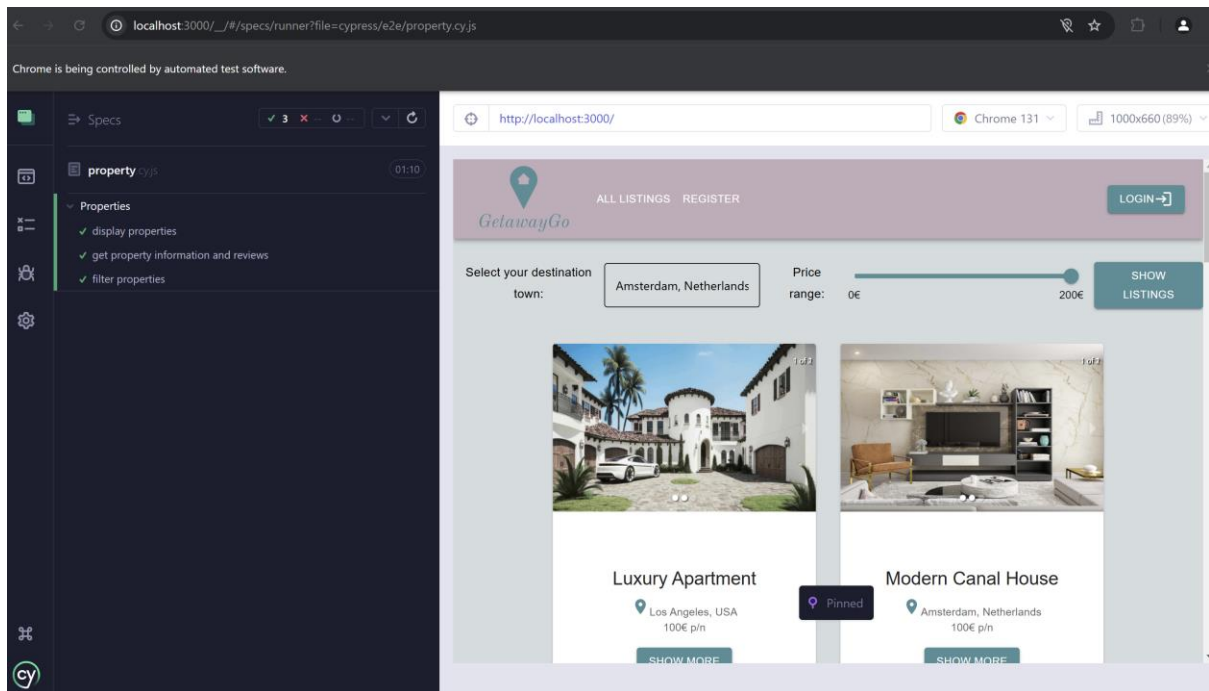


Figure 2 – Execution in the Cypress interface

The E2E tests are integrated into the pipeline to ensure that everytime, I push on the main branch to deploy, the application will be tested. If the tests fail, the pipeline will as well.

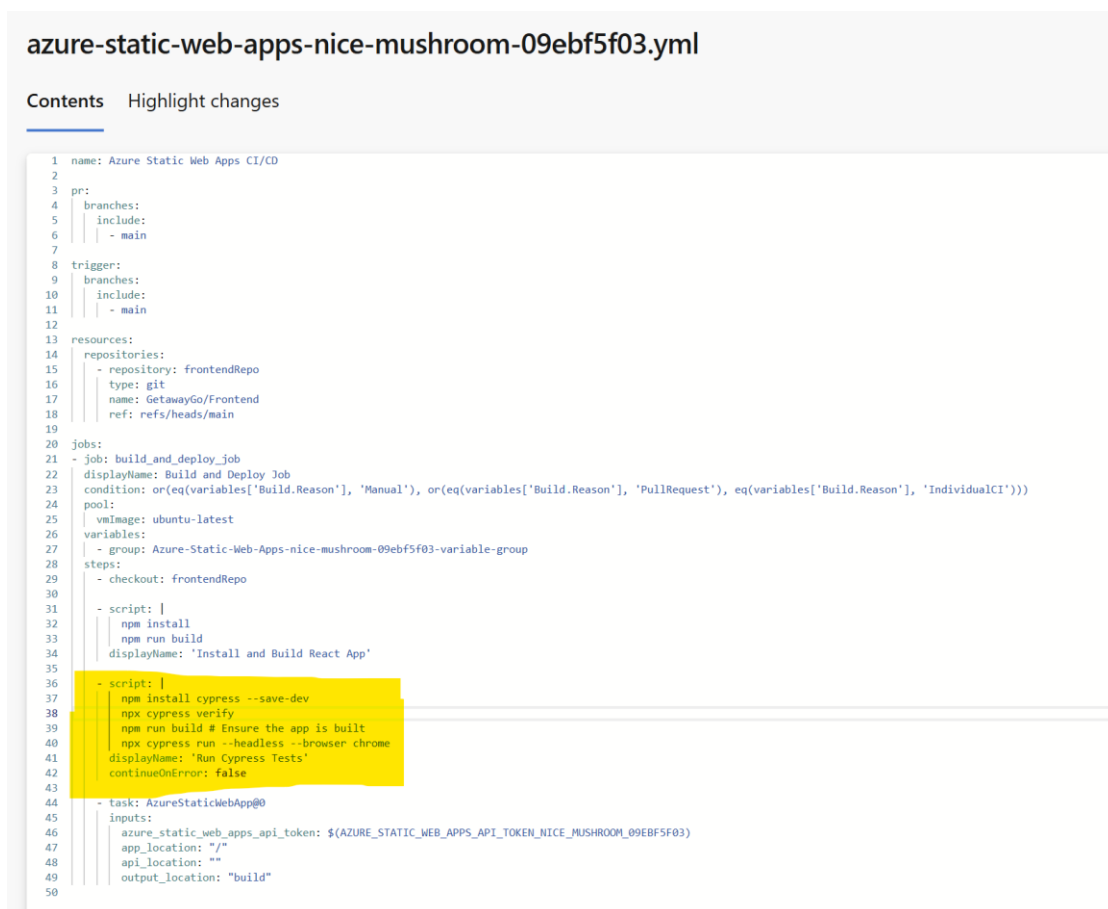


Figure 3 – Pipeline configuration to run the tests

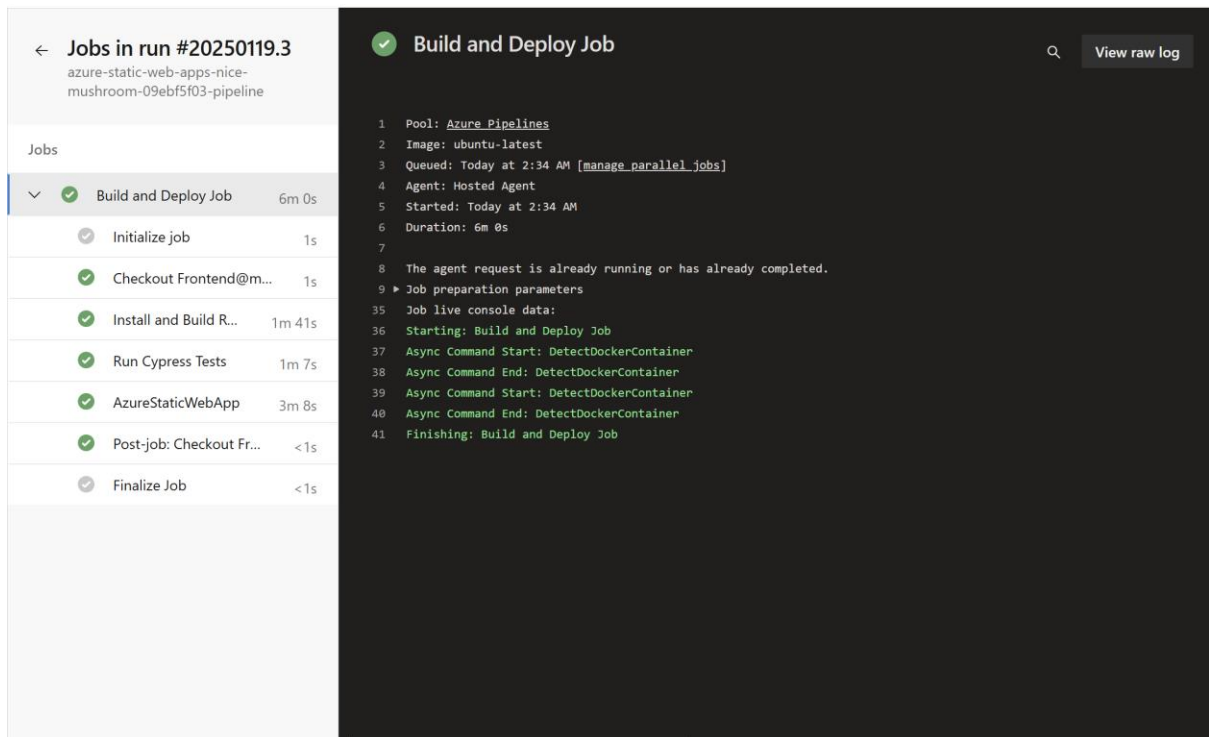


Figure 4 – Pipeline execution

Conclusion

The implementation of end-to-end testing in the GetawayGo project has significantly enhanced the reliability and quality assurance of the application. By leveraging Cypress as the testing framework, I was able to create and execute comprehensive tests that validate critical functionalities. Integrating these tests into the CI/CD pipeline ensures that any issues are promptly identified and addressed before deployment.