

Test Summary Report – Restful Booker Platform

Test objectives

For the Restful Booker Platform, it was decided to focus on using Playwright with Typescript to create an initial end to end test automation suite.

The automated tests focused on both the function (room booking, admin users) and usability of the website such as error messages.

The key objectives were to cover core functionality and raise bugs as they were found during testing process.

Test cases/ execution details/ test coverage

The test suite is divided into 3 sections:

- AccessibilityScan.spec.ts – this uses Playwright and Axe Builder to detect some common accessibility problems such as missing or invalid properties. This will highlight any major areas that need fixed.
- Admin.spec.ts – this script focuses on the admin user functionality that is accessed via the admin panel at the bottom of the page. The focus for this set of tests was core functionality such as viewing rooms, editing rooms, seeing messages from customers and making branding updates.
- Customer.spec.ts – this script focuses on the customer functionality. The focus was on the three main areas available to a customer of making a booking, contacting the website and error messages during the booking process.

Tests were run locally during the week of Monday 20th January 2025 – Sunday 26th January 2025. Test reports were then accessed using Playwright HTML Reporter (npx playwright show-report).

Defect status

Bugs were raised on a Trello board <https://trello.com/b/Har9hMvJ/restful-booker-bug-tracker> with a csv export file also available at Bug Reports\Restful Booker Bug Tracker.csv.

11 bugs were discovered during this first initial phase of testing as summarized below.

Overall total: 11

By priority

Critical – 3

Major – 5

Minor – 3

Trivial – 0

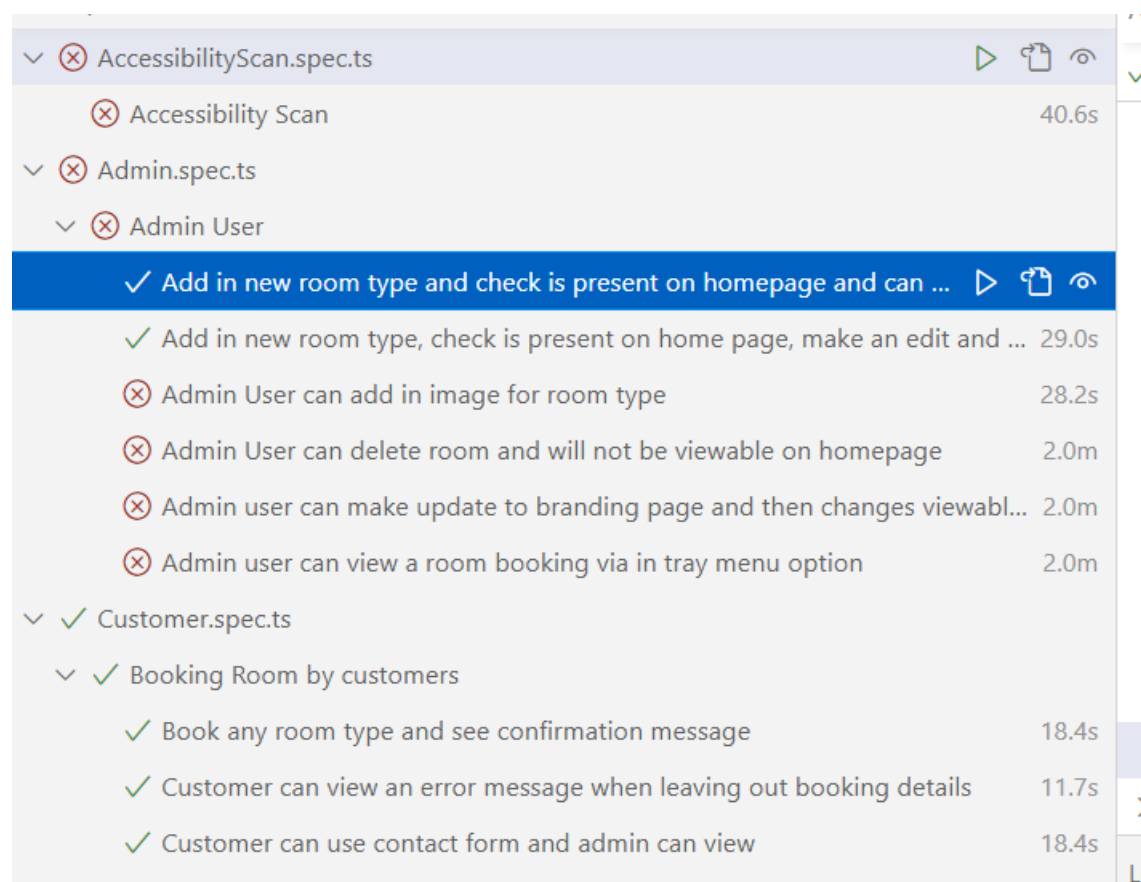
Test environment configuration details

The testing was completed by running Playwright on a local machine. Tools installed include Node.js, Npm, Playwright and VS Code.

For test data to ensure variety, names and telephone numbers etc were generated using <https://randommer.io/Name>

Test Results

Below is a screenshot of a local test run. All customer user flows test pass. There are several failures on the admin flow this is primarily due to test data being overwritten during automation runs. Please see the future test improvements document at e2etestautomation\Future Improvements\FutureTestImprovementsRestfulBookerPlatform.pdf for suggestions to improve test stability.



AccessibilityScan.spec.ts		
Accessibility Scan		40.6s
Admin.spec.ts		
Admin User		
Add in new room type and check is present on homepage and can ...		
Add in new room type, check is present on home page, make an edit and ...		29.0s
Admin User can add in image for room type		28.2s
Admin User can delete room and will not be viewable on homepage		2.0m
Admin user can make update to branding page and then changes viewabl...		2.0m
Admin user can view a room booking via in tray menu option		2.0m
Customer.spec.ts		
Booking Room by customers		
Book any room type and see confirmation message		18.4s
Customer can view an error message when leaving out booking details		11.7s
Customer can use contact form and admin can view		18.4s

Accessibility Scanning

There are major accessibility issues being flagged by the Playwright automated scan. A PDF version of the scan is available at [e2etestautomation\Screenshot of HTML Reporter tool](#).

Example screenshot of HTML Reporter tool

The screenshot shows a web browser window displaying the HTML Reporter tool interface. The browser's address bar shows the URL: `localhost:9323/#?testId=a08b7a35976c49d7a712-49fcadd527322f8edc4e`. The page title is "Accessibility Scan". Below the title, it says "AccessibilityScan.spect.ts6" and "1.3m". There is a "firefox" button and a "Run" button with a red "X" icon. The "Errors" section is expanded, showing a single error: "Error: expect(received).toEqual(expected) // deep equality". The error details are as follows:

```
Error: expect(received).toEqual(expected) // deep equality
- Expected  -   1
+ Received  + 1761

- Array []
+ Array [
+   Object {
+     "description": "Ensure an element's role supports its ARIA attributes",
+     "help": "Elements must only use supported ARIA attributes",
+     "helpUrl": "https://dequeuniversity.com/rules/axe/4.10/aria-allowed-attr?application=playwright",
+     "id": "aria-allowed-attr",
+     "impact": "critical",
+     "nodes": Array [
+       Object {
+         "all": Array [
+           Object {
+             "data": Array [
+               "aria-expanded=\"false\"",
+             ],
+             "id": "aria-allowed-attr",
+             "impact": "critical",
+             "message": "ARIA attribute is not allowed: aria-expanded=\"false\"",
+             "relatedNodes": Array [],
+           },
+         ],
+       },
+     ],
+   },
+ ]
```