

Task 15 - Construction and verification of the test environment
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Name of the tested application: Warsaw Sneaker store
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The web application 'WSS' being tested does not have clearly defined supported environments. Following logic, the most popular browsers, systems, and their versions will be supported by most web applications. I will also refer to the previous task of compatibility testing, where various environments were tested.

The devices I used in that task:

MacBook Pro (13-inch, M1, 2020) (macOS Monterey 12.6) and iPhone X (IOS 16.1.1)

Browsers:

Google Chrome (Version 108.0.5359) - Desktop

Safari (Version 15.6.1 (17613.3.9.1.16) - Desktop

Opera (Version 56.0.3051.104) (Release Nov 16th, 2018) - Desktop

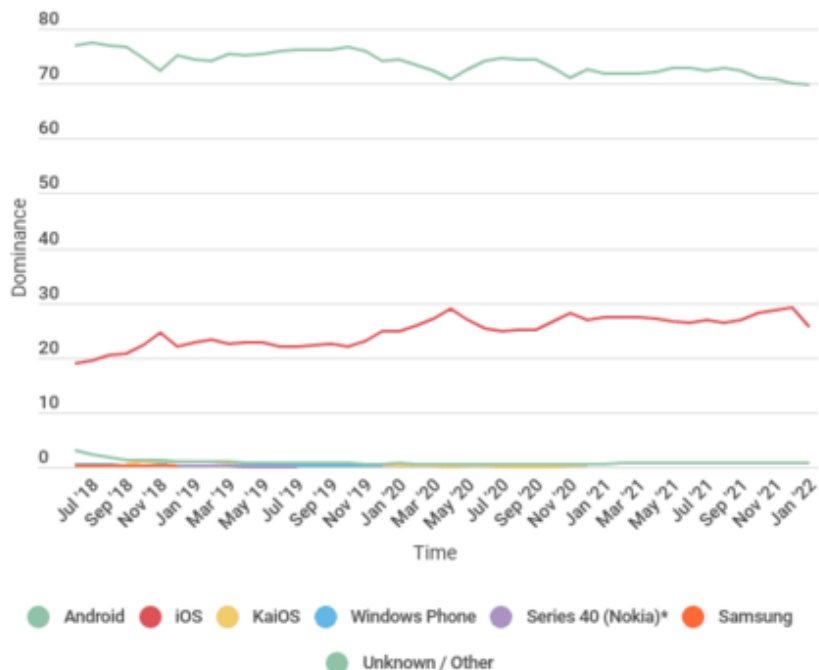
Safari (Version 16.1.1) - Mobile

Chrome (Version 108.0.5359.112) - Mobile

After conducting the tests, I can confidently state that the application supports an older version of the Opera browser from 2018, so I suspect that older versions of browsers such as Chrome, Mozilla Firefox, Safari, and Internet Explorer will also be supported. The application also performs well in mobile browsers. Taking into account the following chart, the application is most likely to be supported by most Android and iOS systems

Market Dominance of Smartphone Operating Systems (dominance in percentage)

Source: Statista



If any of the environments does not work, it can lead to a number of issues with verifying the correctness of the application's operation in that environment, which in turn can result in changes in this area and time losses associated with repairing the environment and restoring it to its pre-failure state.

When it comes to the stability of the environment with the application running, the differences are really minimal. In the case of having only the application running in Safari, the CPU usage does not exceed 3%, and the memory usage is only 230 MB, so it does not significantly affect the quality of the environment's performance. All processes are executed at the same speed as when the application is turned off.

The most important test environment should include at least the minimum hardware requirements to handle most web browsers, plugins, and tools that are part of the testing process. The environment should have necessary tools and both desktop and mobile hardware. The basis here should be updated versions of systems and browsers to the latest versions. The system here can be Windows, iOS, or Android

In the store's regulations, we can read that the supported browsers in the environment include Google Chrome, Safari, Microsoft Edge, Mozilla Firefox, and must have JavaScript enabled.

To use the application, an active email address is also required, but the application also allows for logging in through PayPal, Facebook, or Google.