

Challenge Part 1 - Hypothetical Tests

Automate	Don't automate	Notes
(1) An addition function handles adding a positive integer to a negative integer		
	(2) The "happy path" through the product which the CTO plans to demo in an hour is working as expected	Automating this test would take longer than an hour, so because of the time constraint, it would be quicker to not automate it in this instance.
(3) A program returns the first 1000 digits of pi correctly		
(4) A website renders appropriately in Safari, Chrome, Firefox, Edge, Vivaldi and Brave	(4) A website renders appropriately in Safari, Chrome, Firefox, Edge, Vivaldi and Brave	We could automate certain elements (eg. the right buttons exist, certain actions cause certain outcomes) but we would also need to test it manually to ensure the page layout looks right and all features are accessible
	(5) A workaround for some functionality is effective, knowing it's to be rewritten and replaced with something proper in two weeks time	As this will shortly be rewritten, i would test this manually for now with plans to automate once the final version has been coded.
	(6) An old, deprecated (and soon to be removed) bit of functionality still works, when a newer method for that functionality already exists	Cannot justify spending the time to automate this as it's due to be removed shortly.
(7) A website's dark/light theme can be applied and changes the site		
(8) The website's background colour is pure white (i.e. in hex #FFFFFF) not off-white/etc.		

	(9) A website's colour contrast is appropriate for users with different types of colour blindness	This needs to be done manually to get the benefits of the subtleties of the human eye.
(10) The system fails gracefully when put under extreme load, such as having an excessive number of users in parallel		Has to be automated as we wouldn't have access to a large number of users to do this at the same time
(11) The Copyright symbol and version number are printed in the About dialog of each daily build of the product		
(12) A mobile phone displays a helpful number of WiFi signal bars as the phone moves nearer to/further from the router		
(13) The system is still responsive under a normal/expected load of users using it at the same time	(13) The system is still responsive under a normal/expected load of users using it at the same time	Certain checks would be automated for this, but a manual visual inspection would still be required to see how the content loads on the page and how tasks are being completed under that pressure.
	(14) The accompanying manual pages for the newly added feature accurately describe how to use it	