**Test objective and scope:**

Checking if the connection to the servers’ addresses works correctly and the correct outcome is given. This is important as it would need to be displayed on the website, so it makes sure the pinging works and it has a correct output. This is unit testing, as it only looks at one part of the backend therefore it will need to be tested again with the rest of the code once it works as intended. This is integration testing as I am checking to see if the new code works with the rest of the code.

Another thing that will need testing is the login page. This will require transferring the user to different interfaces of the website depending on the email. Tests will need to be made to make sure each email type sends the user to the correct website. This is unit testing as I will focus on just this one part of the project and testing until it works as intended. After the intended outcome, an integrity test will have to take place to make sure it doesn’t affect the rest of the code or project negatively. For this part, security testing will have to be considered as different users should have different access levels to the website.

**Risk analysis:**

One risk when making the feature for someone to report a website or server that isn’t working is that there can be fake reports going in. This would result in fake or wrong information being displayed on the website with the servers and websites’ statuses. One way to prevent this is by allowing someone to check and make sure the report is real by checking themselves, basically giving it a double authenticator. So, the status won’t be changed unless it is reported by two or more users allowing for a higher chance of accuracy.