**White Box Testing**

In white box testing, this is where a software testing approach that involves examining the underlying structure, architecture, and coding of software in order to validate input-output flow and enhance design, usability, and security. In this testing, the code is visible to the testers. This is focused on an application's internal workings and focuses on internal testing.

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| ID | Description | Steps | Expected Result | Actual Result | Pass/Fail |
| 1 | Test if jwt package is working properly | Input the login credentials from the seeder. | 1. Credentials should be validated. 2. If credentials is valid an access token will be returned along with the user information | As expected; a token was returned from the server when the credentials were validated | **PASSED** |
| 2 | Test if an email that is being signed-up is non-existing from the database | Create an account of a user an fill-in the required informations and submit after completing. | 1. If the email exist in the database already; a 422 status code will be returned. 2. If email doesn't exist sign-up will be successful | As expected; a 422 status code was returned if email does exist on the database and a status code of 200 if it doesn’t exist | **PASSED** |
| 3 | Test if login is checking the credentials for user and system administrator | Login and toggle the admin login if admin credentials are inputted, if not admin then untoggle the admin login | 1. If a correct system admin credentials are entered and admin login was toggled, it should return a 200 status code and should redirect to the admin panel 2. If credentials are not for the system admin and admin login was not toggled it should return a 200 status code and should redirect to the user panel | As expected; correct credentials were entered and admin login was toggled; it redirected to the admin panel. The same results for the user accounts. | **PASSED** |
| 4 | Test if user login checks for the account status. Pending accounts should not be able to login. | Login a user account | 1. If credentials are correct and exists in the database it should check if the status is Pending or Approved; if Pending return an error status 2. If account status is Approved it should return a status code of 200 | As expected; an error was returned to the account with a status of Pending | **PASSED** |
| 5 | Test if the middleware of the routes are working properly on the admin | Send a HTTP Request to an admin route | 1. If authenticated user is not an admin and accessed route is for admin it should return an Unauthenticated status | As expected; an unathenticated status was returned when accessing a route for the administrator | **PASSED** |
| 6 | Test if the jwt is working and expecting a token for every request that is secured by it. | Send a post request to an api route for storing a department | 1. If no token is passed; it should return an unauthenticated status | As expected; an unathenticated status was returned when sending a post request without a token | **PASSED** |
| 7 | Test If the scraper system is working. | Send a post request on the scraping server | 1. If search is not null it will search for the product on the scraped website. | As expected; data has been returned. | **PASSED** |