

Task 3: API

Based on documentation: <http://localhost:3030/docs/>

I would automate as much as possible test cases for provided API, because all looks straightforward and do not require any manual assistance or manipulation and I believe automation of such things save a huge amount of time in future and prevent regression.

First of all I would automate "happy path" test cases for all endpoints, which are going to validate positive cases with all possible parameters and their combinations.

In these tests I would validate: response status, response headers, response body. Specially in response body I would validate: json schema, received data "key: values" and specific for request expected result (ex. Limit = 10 means that in response we should validate that we got 10 objects in data{ }).

In additional I would specify some dependencies between tests. For example, first of all I would run test which call healthcheck, in case of fail remaining tests should not be run. And based on test groups or tags, if for instance first test Get/products fails next tests in this group should not be run.

I automated almost all happy path cases, some test cases which were provided in <http://localhost:3030/queries> and some edge/negative test cases.

I used the Postman + newman integration, because it doesn't require a lot of time for setup and pretty easy to run.

Task 2: Android app

I have never had possibility to work with real mobile project, I mean to write automation for mobile applications. That is why I decided to proceed with API part, however I wanted to at least provide you some basic tests for mobile, but something went wrong with a setup and I just do not have more time to do that right now.