

Test Summary Report

1. Purpose

This document explains the various activities performed as part of Testing of Ingestion system application.

2. Application Overview

The app's goal is to process information that can be found on different news pages such as BBC, New York Post and many others and send that information to another module that will eventually determine if the news was fake or not.

3. Testing Scope

a) In Scope

Tested modules:

- business (BBCNews, BuzzFeed, NBCNews, NewYorkPost, HuffingtonPost, DailyMail)
- controller
- service
- cron job

b) Out of Scope

Performance Testing was not done for this application.

c) Items not tested

Verification of connectivity with the Backend system was not tested, as the connectivity is done via Swagger.

4. Test Summary

- The number of test cases executed: 28
- The numbers of test cases pass: 27
- The numbers of test cases fail: 1
- Pass percentage: 96.43%

- Fail percentage: 13.33%.

5. Tests Description

a) business

- Method shouldScrapWithoutErrors() of class BBCNewsTest
 - ❖ Case tested: scrapping the main page successfully without throwing any exception
 - ❖ Preconditions: create a BBCNewsController object that will call the method scrapMainPage().
 - ❖ Postconditions: no other method should be called after the test is finished
 - ❖ time: 3.5sec
- Method scrapWithoutErrorsPageContent() of class BBCNewsTest
 - ❖ Case tested: scrapping the content of a page when providing a link without throwing any exception
 - ❖ Preconditions: create a BBCNewsController object that will call the method scrapPageContent("/news").
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 20.76sec
- Method shouldScrapWithoutErrors() of class HuffingtonPostTest
 - ❖ Case tested: scrapping the main page successfully without throwing any exception
 - ❖ Preconditions: create a HuffingtonPost object that will call the method scrapMainPage().
 - ❖ Postconditions: no other method should be called after the test is finished
 - ❖ time: 3s 562ms
- Method scrapWithoutErrorsPageContent() of class HuffingtonPostTest
 - ❖ Case tested: scrapping the content of a page when providing a link without throwing any exception
 - ❖ Preconditions: create a HuffingtonPost object that will call the method
scrapPageContent("https://www.huffpost.com/entry/fda-approves-pfizer-vaccine-12-to-15-year-olds_n_6070be53c5b6616dcd780ef5").
 - ❖ Postconditions: no other method should be called after the test is finished.

- Method shouldScrapWithoutErrors() of class NBCNewsTest
 - ❖ Case tested: scrapping the main page successfully without throwing any exception
 - ❖ Preconditions: create a NBCNewsController object that will call the method scrapMainPage().
 - ❖ Postconditions: no other method should be called after the test is finished
- Method scrapWithoutErrorsPageContent() of class NBCNewsTest
 - ❖ Case tested: scrapping the content of a page when providing a link without throwing any exception
 - ❖ Preconditions: create a NBCNewsController object that will call the method
scrapPageContent("https://www.nbcnews.com/news/nbcblk/how-trump-ignited-fight-over-critical-race-theory-schools-n1266701").
 - ❖ Postconditions: no other method should be called after the test is finished.
- Method shouldScrapWithoutErrors() of class NewYorkPostTest
 - ❖ Case tested: scrapping the main page successfully without throwing any exception
 - ❖ Preconditions: create a NewYorkPost object that will call the method scrapMainPage().
 - ❖ Postconditions: no other method should be called after the test is finished
- Method scrapWithoutErrorsPageContent() of class NewYorkPostTest
 - ❖ Case tested: scrapping the content of a page when providing a link without throwing any exception
 - ❖ Preconditions: create a NewYorkPost object that will call the method
scrapPageContent("https://nypost.com/2021/05/11/6-year-old-girl-fatally-shot-in-san-antonio-suspect-arrested/").
 - ❖ Postconditions: no other method should be called after the test is finished.
- Method shouldScrapWithoutErrors() of class DailyMailTest
 - ❖ Case tested: scrapping the main page successfully without throwing any exception

- ❖ Preconditions: create a DailyMail object that will call the method scrapMainPage().
- ❖ Postconditions: no other method should be called after the test is finished
- ❖ time: 8m 22s 337ms
- Method scrapWithoutErrorsPageContent() of class DailyMailTest
 - ❖ Case tested: scrapping the content of a page when providing a link without throwing any exception
 - ❖ Preconditions: create a HuffingtonPost object that will call the method scrapPageContent("https://www.huffpost.com/entry/fda-approves-pfizer-vaccine-12-to-15-year-olds_n_6070be53c5b6616dcd780ef5").
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1s 719ms

b) controller

- Method shouldReturnBadRequestWhenPassingNullToCreate() of class NewsControllerTest
 - ❖ Case tested: getting the status 400 when passing null to method create().
 - ❖ Preconditions: create a ResponseEntity<News> object that will be assigned the controller's create method.
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 2.4sec
- Method shouldReturnCreatedWhenPassingNewsObjectToCreate() of class NewsControllerTest
 - ❖ Case tested: getting the status 201 (created) when passing a News object to method create().
 - ❖ Preconditions: create a ResponseEntity<News> object that will be assigned the controller's create method.
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 3.6sec
- Method shouldReturnNewsSources() of class NewsControllerTest
 - ❖ Case tested: getting the status 200 when trying to see if all news sources are seen.

- ❖ Preconditions: create a `ResponseEntity<List<String>>` object that will be assigned the controller's `getNewsSources()` method.
- ❖ Postconditions: no other method should be called after the test is finished.
- ❖ time: 3.67sec
- Method `shouldReturnFilteredListOfNews()` of class `NewsControllerTest`
 - ❖ Case tested: filter a list of news.
 - ❖ Preconditions: 1 object to be mocked
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1s 22ms
- Method `shouldReturnNotFound()` of class `NewsControllerTest`
 - ❖ Case tested: expecting 404 code when the id is not found.
 - ❖ Preconditions: 2 objects to be mocked
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 2.73sec
- Method `shouldReturnAllNews()` of class `NewsControllerTest`
 - ❖ Case tested: return the news
 - ❖ Preconditions: 2 objects to be mocked
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 3.34sec
- Method `shouldReturnFilteredListOfNews()` of class `NewsControllerTest`
 - ❖ Case tested: filter a list of news.
 - ❖ Preconditions: 1 object to be mocked
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1s 27ms
- Method `shouldReturnFilteredNews()` of class `NewsControllerTest`
 - ❖ Case tested: filter news.
 - ❖ Preconditions: 1 object to be mocked
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1s 353ms

- Method shouldSearchCount() of class NewsControllerTest
 - ❖ Case tested: searching when given a query.
 - ❖ Preconditions: 1 object to be mocked
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1s 22ms
- Method shouldSearch() of class NewsControllerTest
 - ❖ Case tested: searching when given a count and a skip parameter.
 - ❖ Preconditions: 1 object to be mocked + 1 NewsController object
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1s 284ms

c) service

- Method findPaginated() of class NewsServiceTest
 - ❖ Case tested: getting a number of pages in a paginated form without throwing any exception
 - ❖ Preconditions: create a Page object that will be mocked.
 - ❖ Postconditions: the pagination should work and no other method should be called after the test is finished.

d) cron job

- Method shouldCallNY() of class CronNewsTest
 - ❖ Case tested: getting news from NewYorkPost without throwing any exception
 - ❖ Preconditions: create a CronNews object that will call the method callNY().
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 1m 12s 719ms
- Method shouldCallBBC() of class CronNewsTest
 - ❖ Case tested: getting news from BBCNews without throwing any exception
 - ❖ Preconditions: create a CronNews object that will call the method callBBC().
 - ❖ Postconditions: no other method should be called after the test is finished.
- Method shouldCallNBC() of class CronNewsTest
 - ❖ Case tested: getting news from NBC without throwing any exception

- ❖ Preconditions: create a CronNews object that will call the method callNBC().
- ❖ Postconditions: no other method should be called after the test is finished.
- ❖ time: 1m 23s 750ms
- Method shouldCallHuffingtonPost() of class CronNewsTest
 - ❖ Case tested: getting news from HuffingtonPost without throwing any exception
 - ❖ Preconditions: create a CronNews object that will call the method callHuffingtonPost().
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 28s 409 ms
- Method shouldCallDailyMail() of class CronNewsTest
 - ❖ Case tested: getting news from DailyMail without throwing any exception
 - ❖ Preconditions: create a CronNews object that will call the method callDailyMail().
 - ❖ Postconditions: no other method should be called after the test is finished.
 - ❖ time: 6m 52s 500 ms