

Sport Data Project

Section 1 – Description and Overview Project

Our project using Soccer Data API from : (<https://www.football-data.org/>)

This Api give us details in soccer leagues as :

1. Details of each year in the leagues.
2. Details of each league.
3. Details of each top teams in the different league .
4. Details about games , scorers , lineup .
5. Give us statistic of each player .
6. Top scorers of each league .

We use this api for the features :

Feature 1 - give us the top league of each league and sort this for us by amount of games they play -it print the details of the top teams .

Feature 2 - give us the top scorers and sort it by amount of goals – it print details of the players that score the most goals (and sort them).

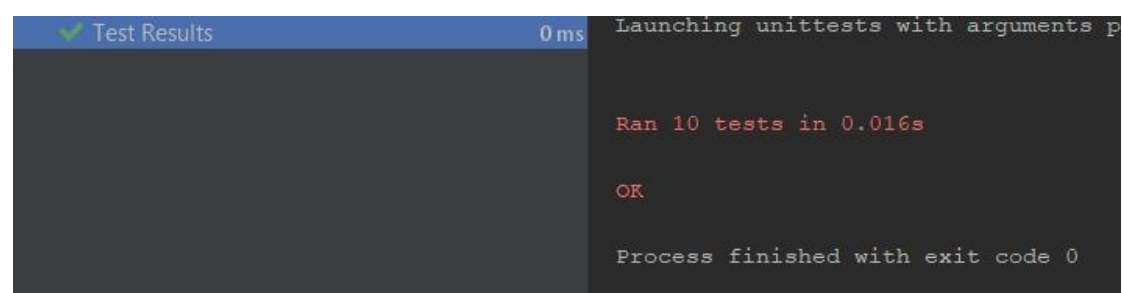
Section 2 – Test Passing for each unit

For feature 1 - the tests are :

1. date of the start season is earlier than the date of end league .
2. the winning team is not null.
3. The count of games for the teams are from the least to the most .
4. The country names are different for each league .
5. The number of season weeks are bigger then the number of games for each lineup .

For feature 2 – the tests are :

1. The scorers are from the smallest to the largest .
2. Scorer name is not null .
3. There is no two top scorers in the same league .
4. The age of scorer bigger then 16 .
5. the goals must be bigger from 0 .



The screenshot shows a terminal window with a dark background. At the top, there is a blue header bar with a green checkmark icon, the text "Test Results", and "0 ms". The main area of the terminal displays the following text in a monospaced font:

```
Launching unittests with arguments p
Ran 10 tests in 0.016s
OK
Process finished with exit code 0
```

Section 3 -CI/CD pipeline for each unit

Circle of testing driven development :

↑ Final Testing fixing!	145ef30	Passed
GuyHassan		an hour ago
↑ Final Testing fixing	cb70309	Passed
GuyHassan		2 hours ago
↑ Final linting fixing	7a47ce5	Failed
GuyHassan		2 hours ago
↑ Checking heroku	f407ddd	Passed
GuyHassan		2 hours ago
↑ Added semaphore	dd63bc9	Failed
GuyHassan		3 hours ago
↑ Added semaphore	7d1c9da	Failed
GuyHassan		3 hours ago
↑ check	429aded	Failed
GuyHassan		3 hours ago

Image of final push to github passed all our units :

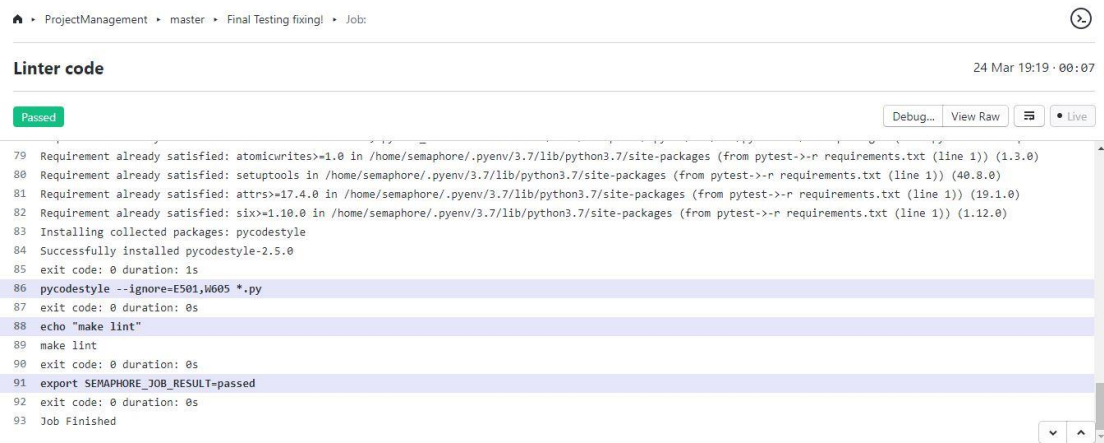
The screenshot shows a GitHub Actions workflow run for the repository 'ProjectManagement' on the 'master' branch. The workflow is named 'Final Testing fixing!' and was triggered by a push. The pipeline consists of three main steps: 'Build' (Docker build), 'Unit tests' (RSpec testing tool and Linter code), and 'Push Image To Heroku System' (Push to Heroku). All steps are marked as successful with green checkmarks. The workflow was completed on 24 Mar 19:19:01:13.

image of a docker build unit passed :

The screenshot shows a GitHub Actions workflow run for the repository 'ProjectManagement' on the 'master' branch. The workflow is named 'Final Testing fixing!' and the job is 'Docker build'. The job is marked as 'Passed'. The logs show the following steps:

- 59 Identity added: /home/semaphore/.ssh/semaphore_cache_key (/home/semaphore/.ssh/semaphore_cache_key)
- 60 exit code: 0 duration: 0s
- 61 sem-version python 3.7
- 62 [17:19 24/03/2019]: Changing 'python' to version 3.7
- 63 * Switching to Python version 3.7
- 64 * Done.
- 65 Python 3.7.2
- 66 [17:19 24/03/2019]: Switch successful.
- 67 exit code: 0 duration: 0s
- 68 checkout
- 69 Performing shallow clone with depth: 50
- 70 HEAD is now at 97513ac Final Testing fixing!
- 71 exit code: 0 duration: 1s
- 72 export SEMAPHORE_JOB_RESULT=passed
- 73 exit code: 0 duration: 0s
- 74 Job Finished

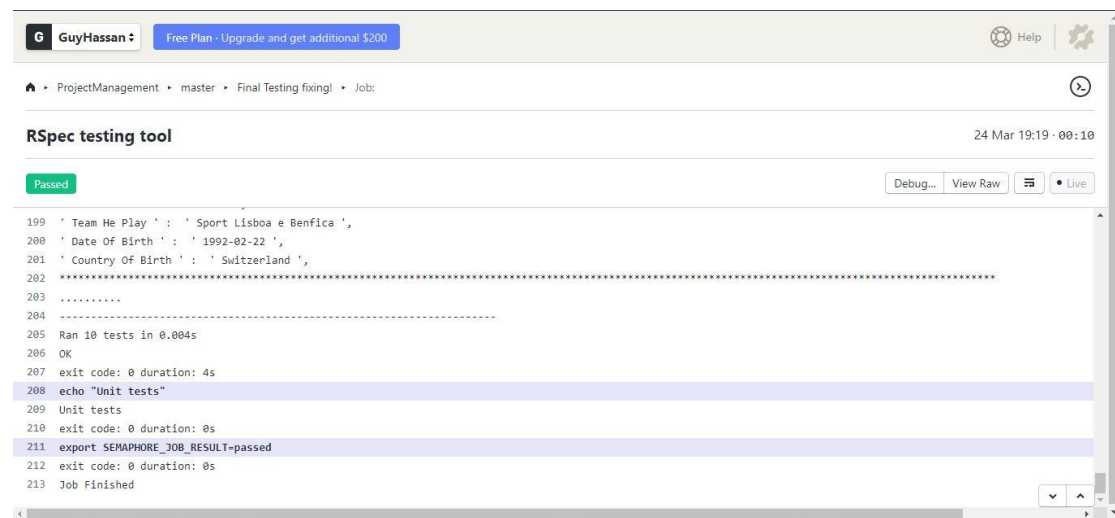
image of a linter unit passed :



The screenshot shows a CI/CD interface for a project named 'ProjectManagement'. The job is titled 'Linter code' and is in a 'Passed' state. The job log shows the following steps:

```
79 Requirement already satisfied: atomicwrites>=1.0 in /home/semaphore/.pyenv/3.7/lib/python3.7/site-packages (from pytest->r requirements.txt (line 1)) (1.3.0)
80 Requirement already satisfied: setuptools in /home/semaphore/.pyenv/3.7/lib/python3.7/site-packages (from pytest->r requirements.txt (line 1)) (40.8.0)
81 Requirement already satisfied: attrs>=17.4.0 in /home/semaphore/.pyenv/3.7/lib/python3.7/site-packages (from pytest->r requirements.txt (line 1)) (19.1.0)
82 Requirement already satisfied: six>=1.10.0 in /home/semaphore/.pyenv/3.7/lib/python3.7/site-packages (from pytest->r requirements.txt (line 1)) (1.12.0)
83 Installing collected packages: pycodestyle
84 Successfully installed pycodestyle-2.5.0
85 exit code: 0 duration: 1s
86 pycodestyle --ignore=E501,W605 *.py
87 exit code: 0 duration: 0s
88 echo "make lint"
89 make lint
90 exit code: 0 duration: 0s
91 export SEMAPHORE_JOB_RESULT=passed
92 exit code: 0 duration: 0s
93 Job Finished
```

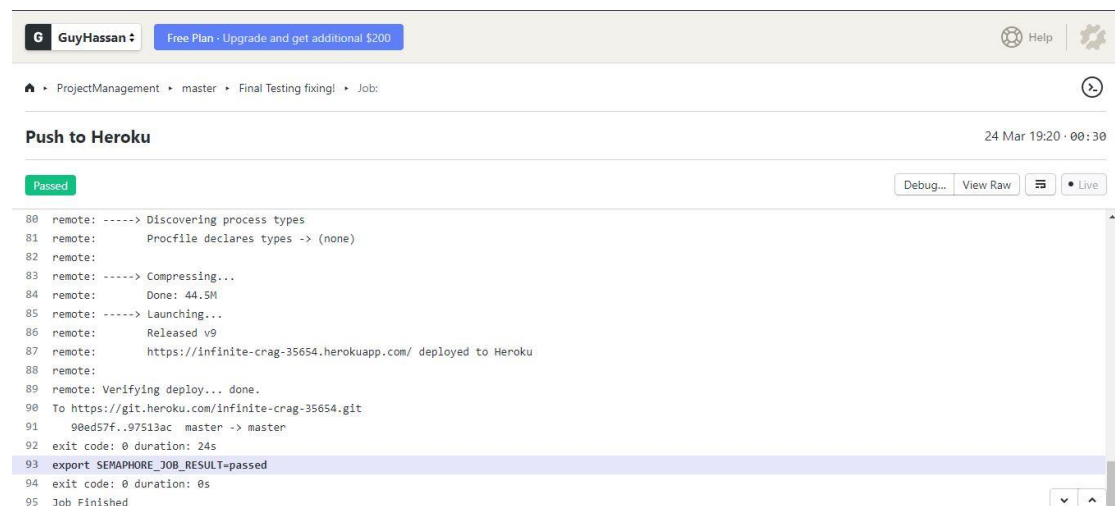
Image of Rspec testing tool passed :



The screenshot shows a CI/CD interface for a project named 'ProjectManagement'. The job is titled 'RSpec testing tool' and is in a 'Passed' state. The job log shows the following steps:

```
199 ' Team He Play ' : ' Sport Lisboa e Benfica ',
200 ' Date Of Birth ' : ' 1992-02-22 ',
201 ' Country Of Birth ' : ' Switzerland ',
202 .....
203 .....
204 .....
205 Ran 10 tests in 0.004s
206 OK
207 exit code: 0 duration: 4s
208 echo "Unit tests"
209 Unit tests
210 exit code: 0 duration: 0s
211 export SEMAPHORE_JOB_RESULT=passed
212 exit code: 0 duration: 0s
213 Job Finished
```

Image of final testing push to the cloud Heroku :



The screenshot shows a CI/CD interface for a project named 'ProjectManagement'. The job is titled 'Push to Heroku' and is in a 'Passed' state. The job log shows the following steps:

```
80 remote: ----> Discovering process types
81 remote: Procfile declares types -> (none)
82 remote:
83 remote: ----> Compressing...
84 remote: Done: 44.5M
85 remote: ----> Launching...
86 remote: Released v9
87 remote: https://infinite-crag-35654.herokuapp.com/ deployed to Heroku
88 remote:
89 remote: Verifying deploy... done.
90 To https://git.heroku.com/infinite-crag-35654.git
91 90ed57f..97513ac master -> master
92 exit code: 0 duration: 24s
93 export SEMAPHORE_JOB_RESULT=passed
94 exit code: 0 duration: 0s
95 Job Finished
```

Section 4 – link for the services used

1. API Link - <https://www.football-data.org/>.
2. Our project link - <https://github.com/GuyHassan/ProjectManagement>.
3. CI – SemaphoreCI :<https://semaphoreci.com/> .
4. CD - Web Server – Heroku: <https://www.heroku.com/> .
5. Mock Library -in the terminal write "pip install mock" .