Technical test

Instructions

Write a simple Elixir application that serves the football results included in the attached *data.csv* file.

The application must expose a public HTTP API allowing users to:

1. List the league and season pairs (e.g. La Liga 2017-2018) for which there are results available

2. Fetch the results for a specific league and season pair

   Users must be able to retrieve the results for a specific league and season pair formatted in JSON and Protocol Buffers.

   As for the technology stack, you are free to choose the libraries and frameworks that you consider most appropriate to solve this exercise.

   We have kept the requirements to a bare minimum. We do not want you to overdo the solution, but we also want you to have an opportunity to show us all the tricks you know. Feel free to add as many optional features as you deem necessary but make sure that you get the required steps right first. Use this opportunity wisely and do not hesitate to contact us should you have any questions.

Requirements

- You have 1 week to send us the solution to the exercise, you may submit it earlier if you'd finish it within this given time
- Document the solution to make it easy to onboard new developers to the project
- Document the HTTP API
- Create a Dockerfile for the application
- Create a Docker Compose file for the application with 1 HAProxy instance load balancing traffic across 3 instances of the application
- (Bonus) Create the Kubernetes deployment, service and ingress files required to replace the above Docker Compose environment
- (Bonus) Code instrumentation (e.g. logging, metrics)

Good luck!