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Candidates Test for Atalis

Intro

Purpose

This document is intended to be used as a reference for the software needed in the selection process for a software developer (full & front) open positions we have at Atalis Funding. It will describe the basic needs for a piece of software that will be evaluated as part of your selection process.

Scope and expectations

The main goal is to develop software that interacts with a remote service, pulls some data and store it locally while also show this results somehow (plain json, ui, interactive ui…).

This **is not intended to be a production ready piece of software**, but a way to review different areas of expertise for the developers that are currently taking this test.

Assumptions and constraints

It is assumed that if you're reading this, you're in the process to be selected to work with us, it is also assumed that you have at least some basic knowledge about coding web apps, and how remote API/REST calls work, if you're not familiar at all with this concepts, let us know, we can point you up some really straightforward tutorials to put you on track in no time.

On a "real world" application it should be several constraints about the tech stack intended to use, just for your reference, our stack of choice is Rails, Postgresql and Redis, but you can pick whatever tech you feel more comfortable today, there will be no specific requirements for the stack you pick for this project.

Specific requirements

Functional requirements

Remote source of data

At least one source data should be determined to be the "feed" for this app, although it could be any feed-like source such as twitter, restful api resources and many others you can imagine, it will be appreciated if it is done using any public RSS feed.

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Local storage of the pulled data

Once you pulled the data, we would need to store it locally in some way, there are several ways to accomplish this, again, pick the one you think it will suit better for your current level of knowledge, the only requirement here is to make that pulled data persistent somehow.

Data visualisation

Although, and again, there is no specific requirement on how this data should be visualised, we can say there are some levels of deepness this could get, how far you want to dig onto the rabbit hole is completely up to you and your current set of tech knowledge. But for the purpose of this test, only the **Level 1 is required.**

- **Level 1:** No UI, data is shown as it enters in some text-based output (json, plaintext, …)
- **Level 2:** html static UI, it presents the user some visual representation for the collected data, table, list, cards…
- **Level 3:** html/js dynamic, is basically level 2 on steroids, you can use your frontend code-fu to add any functionality you think it will be nice to have such as filters, order, pagination…
- **Level 4** (full-stack devops ninja challenge): you also deploy all this code to any remote service of your choice, instead of just running the demo in your local environment.

Other non-functional requirements

Software quality attributes

Code cleanness and readability

All the software, scripts, variables, classes, basically everything should be in English, and in the most human-readable possible way.

Repository

Your code should be accessible to review in your personal repo, github, gitlab, bitbucket, etc…

Documentation

It will be a “nice to have” if you document your code, classes, methods, although is not required at this point.

Citation

If you reuse some open source code or implement some library that makes your life easier (which is absolutely fine) it is expected that you point that source somewhere, in the Readme doc or in any other place you find suitable for this purposes.

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Other requirements

Presentation

A written document on why you are presenting this software solution the way you're doing it.

This document could be from just a plaintext doc with some bullet-points to a complete presentation, is up to you and how much information you think it will be helpful to present, as an extra to the actual running software you're delivering.

Time estimation

There is no direct/preset constraint about how much time should take for you to be able to showcase a working software with its presentation, so we're leaving this on your end to be defined.

The first thing we expect to get from you then will be a rough estimation on hoy much time do you think it will take in order to be able to deliver this to your better expectations.

Recap

Steps

- Read the requirements.
- Choose a Level and a roadmap for you to execute your deliverable.
- Write back to us telling us when do you plan to deliver / work@atalisfunding.com
- Ask as many questions as you need regarding the assignment.

Remember

- The final work is not intended to be a production ready piece of software, we just want to know what can you do and how do you think / solve problems.
- Only the Level 1 of data visualization is required, the rest is up to you.
- You can choose how to do it and in witch repo will be stored.
- Use all the resources you need (including translators!). If selected, you'll improve your English level for sure.

As a final note, the project you will be working in, is a challenge for all of us because it's an **innovation project**. The position is for **someone who likes challenges and is eager to learn** from a Senior dev (guru level) and wants to **build something new** with a team. We work in a peaceful environment where being solution-oriented is a must. We work hard, but we have always in mind the wellbeing of the team, we support each other to achieve our common goal.

Do you accept the challenge?