

Summary

This take-home exercise was built with the intention to give you the opportunity to show off your coding skills without the pressure of having someone watching you writing code during an interview session.

Note that this take-home project **shouldn't take you more than a few hours**.

Here's a timeline of the interview process related to this assignment so you have an idea of how it looks like:

Phase 1 (take-home exercise):

1. Short answer questions
2. The exercise

Phase 2 (remote video call):

3. A remote coding session where we pair with you to change/talk about your code developed in phase 1.
4. Some other conversations about our processes, architecture, your past experiences, and of course, the opportunity for you to meet other team members.

Short answer questions

Please answer the following questions and submit them as part of the solution package when you are done with it.

1. What are you hoping to find in your next position that would make us the right next step in your career?

2. What have you learned so far about us that has excited you?
3. Have you worked in an environment where developers own delivering features all the way to production? We have QA (Quality Assurance) and a Product Operations team, however, they exist to provide support to engineers. Are you comfortable going to a place where the quality buck stops with the engineers and you have the ability to deploy and observe your own code in production?
4. What is the next technology or subject you are hoping to learn about?

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The Exercise

The goal of this exercise is to build an app that will return results from the Star Wars API <https://swapi.tech>.

Implement an app to match mocks 1 through 6 available [here](#). Yes - styling is important!

This is your opportunity to show us you are comfortable with CSS.

[Zeplin.io](#) login
credentials:

Username: lawnstarter_guest

Password: EcTrAUTh22

Clicking on elements in Zeplin will give you further implementation information, styling details, and relative measurements between other elements.

You are empowered to use whatever stack you'd like to support this project - and are open to many of the underlying decisions to build it out - but here are some requirements:

1. Must run on a modern frontend framework (Vue or React are preferred) and any backend language/framework of your choosing (we use Laravel/PHP mostly). The application should be unified as one - ie: your frontend is talking to your backend.
2. Full application must run in a Docker container and provide sufficient documentation such that a LawnStarter developer with Docker can build and run your application. Feel

free to use a pre-made boilerplate to help speed things up.

- a. You'll need to ensure to the best of your ability that once we receive your submission and follow your included instructions, that we are able to boot it on our machines. We recommend sharing your submission with a friend (ideally one with a Mac) to confirm they are able to boot it before submitting to us.
3. You should also include an endpoint that returns statistics about previous queries. You can return whatever statistics you would like and in whatever format you would like, but they must be re-computed every 5 minutes via an event and queue system. Any statistic(s) you want to present are fine, here are some examples to get you started:

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- a. Top five queries with percentages
- b. Average length of request timing
- c. Most popular hour of day for overall search volume

Note that we are looking for full-stack engineers, but you may personally lean one way or another in your preference or specialty - and that's okay with us! Just be sure to spend the extra effort to make that portion of your assignment shine a little more.

When you feel confident in your solution, you can then submit your work by sharing the link to your GitHub repo. Just send us the link and make sure we at LawnStarter have access to it.

If you have any questions about this assignment or need some clarification on the expectations, **please reach out to Paulo.**

paulo.venturi@lawnstarter.com

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Feedback

Once you have completed this exercise, please let us know the following so we can continue to work on our continuous improvement mindset:

1. What parts of this did you enjoy?
2. What parts of this did you dislike?
3. Any other comments/feedback?