

README

This document contains instructions on how to get started with the technical recruitment test for application consultants at Lime.

Documentation

Since you are reading this, you should have received the following:

1. This readme-document with instructions
2. Case description
3. Folder with a Python web application template
4. Contact information to your test leader

Your assignment

This test is a one-week home assignment structured as a role play, where you will act as a Lime application consultant and your test leader will act as a Lime customer.

When you have finished reading these instructions and gone through the rest of the material in the bundle, please contact your test leader today to ask questions and schedule a date 1 week from now when you will come to the Lime offices and present your solution. The presentation will be approximately 1h, and within that time you will be asked to do a short demonstration of your implementation and then discuss your solutions.

Credentials

From your test leader you will receive url, username and a password in order to access the Dream team Lime application you will be working with.

You will also receive the url and api-key to use when calling the Lime REST-api.

When you get your app up and running, make sure you insert your api-key in the headers section in app.py, and check that you are calling the right url.

Case description

Your assignment is to build a small web application for the fictive customer "Dream team" and integrate it to Lime CRM. In the case description document you will find the specifications of what your customer would like you to build.

Python web application template

At your disposal you will need a computer where you can set up your development environment. At Lime we use Python, so we have included a Python Flask application template you can use for your implementation.

Getting your web app template up and running

1. Install Python on your machine by going to <https://www.python.org/downloads/> and download and install Python 3.4.4. Make sure to choose the correct Python for to the platform you are using, Windows, Linux or MacOS.
2. Right-click on the bundle zip-folder and chose "Properties" and the click "Unblock" (if available).
3. Extract the "Web app"-folder from the bundle, and save it somewhere on your computer.
4. Open a command prompt, and cd into the web app folder.
5. Run this command: "pip install -r requirements.txt" (this will install the framework needed for the app to run).
If you are already familiar with Python, and you are reading this and thinking "I should create a venv and install this inside that venv" then you should do that. But if you are thinking "What's a venv?" then don't bother about creating a venv.
6. Now run this command: "python app.py".
7. The app should now be running on port 5000, so open your browser and go to <http://localhost:5000> and you should see the Dream team start page!

And then what?

The app contains an example of a call to the Lime REST-api and how to render that data on a webpage. But this app is just a template, and your job is to integrate it to Lime CRM using the Lime REST-api and continue developing the web app to solve the requirements from Dream team found in the case description. The app is made up of a few different files, but start by opening up the file app.py and work your way from there.

For information on the Python Flask library, please visit

<http://flask.palletsprojects.com/en/1.1.x/quickstart/#quickstart>

Lime REST-api

In your assignment your will interact with the Lime REST-api, and this is the link to the documentation: <https://api-test.lime-crm.com/api-test/api/v1/docs/>

You will have to enter the username and password you received to access the documentation. The documentation will explain how to interact with the api, and important concepts like how to get data from the api. Please read carefully, especially the part about "pagination".

The Dream Team Lime client

You can access the Dream Team Lime webclient at: <https://api-test.lime-crm.com/client/>

You have to enter the username and password you received to access it.

Since Lime CRM is a customer relationship management software, it contains companies, persons and deals (among other things). These are called "limetypes" in the API documentation. So company, person and deal are examples of limetypes.

Please have a look around in the Dream team Lime application and check out the different companies, persons and deal to get a feel for the structure. This might help you better understand the data coming from the api.

An instance of a limetype is a limeobject. The limetype has properties, and the limeobject has the data corresponding to those properties.

For example: "Coolest company" is an instance of the limetype company. Company has the properties "orgnr", "name", "street" (among others), and the limeobject "Coolest company" has the data "orgnr: 555555-5555", "name: 'Coolest company'", "street: 'Chill street 1'"

YOU CAN DO IT! SEE YOU IN A WEEK.