

# Simple File Service Brief

## Intro and Process Overview

You have until the 3<sup>rd</sup> of October to deliver the assignment, upon which you will get an answer within one to two weeks, where we will provide feedback, and upon approval an invitation for further interviewing with a team lead, in which you will get a live coding assignment, where we will look to assess your line of thought when solving problems.

Best of luck.

## Basic Premisses

You can create the API with the language and tools of your choosing, given the following conditions are met:

- You must provide a README with instructions for running your code;
- Your code must be able to run with just the instructions in the README;
- Your code should have at least some automated tests;
- Your code will be run on Linux (you may use docker);

## API Description

This API resembles S3 in that you are able to upload a file optionally under a path, and any slashes in the path should be treated as folders, when a file is accessed the user should be presented the file for download, when a folder is accessed it's contents should be listed for the user, you should be able to delete files and orphan paths (ones without files in them) should be excluded. If the same file is uploaded twice and their contents differ, you should store the latest one.

This service must only accept some file types, ensuring that only the following file types are accepted: txt, pdf, xml. Any other file types must be rejected, one is also able to delete files.

You can design the paths and methods of the API to your liking, the only expectation is that it is plain HTTP and uses json for data serialization, also make sure to document on the README or by providing an openAPI spec (having a swagger UI is not required).

## Bonus Tasks

These while not required, are features we would love to see, and you may implement as many as you would like or even add your own, not delivering on these is not an issue:

- Make uploads resumable;
- Make the service correctly handle attempts to upload the same file at the same time (choose a behavior that you think makes sense);
- Add some metadata fields to files.

## How to Deliver

You should create a git repository on a service of your choosing (we recommend github as that's what we use officially), we recommend keeping the repository private, when finished grant access to the following e-mails:

[mxavier@legalbot.com.br](mailto:mxavier@legalbot.com.br)

[renan@legalbot.com.br](mailto:renan@legalbot.com.br)

[fagundes@legalbot.com.br](mailto:fagundes@legalbot.com.br)