Take-Home Assignment

Senior Platform Engineer - Royalty Processing

Introduction

We're excited to have you as part of our interview process!

This take-home assignment is designed to evaluate your technical skills, system design approach, and overall software craftsmanship.

Context

In the following task, we ask that you prepare a simple service that, for a given image file (jpeg/png) answers the question: does the image file contain the image of a cat?

Problem: Does the image file provided contain a cat?

Input: Picture file (JPG/PNG)

Output: Yes or No

Task Requirements

We need the following behaviours:

1. **user can upload an image file for scanning**,
2. **user can only upload jpeg and png files**,
3. **the image is kept in a persistent storage**,
4. **scanning is non-blocking operation,**
5. **user can check result of image scanning**,
6. **results are kept in a persistent storage**,
7. **debug data is available for a power user**,
8. **there is any kind of interface available to interact with the application**.

Extra Information

1. only consider AWS cloud and AWS/Amazon services,
2. build serverless application,
3. use any of high-level programming language,
4. you are free to choose what you want to use: the build tools, libraries, etc,
5. ensure that the code in the submission is fully functional, and include instructions for building and running it,

6. you don't need to dedicate days to this; simply demonstrate your ability to craft excellent software,
7. use this exercise as a guide for design decisions, considering it as the initial prototype of a Minimum Viable Product (MVP) that will evolve into production ready deliverable. Be prepared for further discussions regarding how to transition and scale the prototype for future deployment. We understand that "production-ready" may have different interpretations, and we look forward to discussing what it means to you during the review.

Deliverables

- Please submit your solution either as a link to a public repository or as a zip file with all the necessary components for local building and running.
- Be prepared to present and explain your design and implementation.
- If there are additional artifacts (e.g., slides, Miro-board, etc.) that you'll use during the presentation, please include them in your submission.

If you have any questions or require further clarification, feel free to reach out to us. We are looking forward to receiving your solution!