DocuVille

Software Engineer - Technical Assessment

Introduction

Welcome to the technical assessment. This test is designed to evaluate your ability to handle real-world problems through documentation analysis, system design, coding, and reflection on the process. Once you complete the steps below, please upload your work in a word document or individual files to a shared drive like Google Drive and email the link to recruitment@docuville.ai, and we will review and revert. Please make sure to link your LinkedIn profile in your email.

Step 1: Document Capture Problem Statement

You are required to capture key information from one of the following important documents: passport, driver's license, or any other government-issued ID. You may choose one document to proceed with. Ensure that you clearly identify and extract key details such as name, document number, issue and expiration dates, and any other relevant information.

Step 2: System Design [High Level]

You are expected to draw a basic (and high-level) system design that explains how you would solve the problem of capturing, storing, verifying, and managing the extracted document data.

Step 3: Coding Prototype

In this step, you will code a prototype of the system you designed in Step 2. You can use your favorite programming language; however, we prefer either TypeScript/JavaScript or Python/NodeJs for the Backend and ReactJs for the front-end development work. The code should implement core functionalities such as document data extraction and basic validation. Please ensure that your code follows best practices.

Step 4: Screenshots or Working Version

Please include screenshots of your code running or provide a source code link to a working version of your prototype. You are welcome to upload a video (YouTube or any other tool). Otherwise, frontend developers can demo the UI work, and backend developers can demo the execution using command line tools or your local IDE. Full-stack developers can demo end-to-end if possible.

Step 5: Feedback and Opportunities for Iteration

In this final step, please briefly summarize your experience with the exercise. Share how you feel about the challenge, what you enjoyed, and any difficulties you encountered. Additionally, provide some thoughts on improving the design or code if given more time. Consider scalability, security, and user experience when discussing improvement opportunities.