2019 Hackathon Team One Pager

Team Name: Team BYTeS

Team Member Names & Roles:

Matthew Timmons – Team Captain and Developer

Armando Soriano – Dev

Sherry Yang – Dev

Max Bai – Dev

(Roles to be filled):  
Product Owner

Scrum Master

Problem Statement:

TitleMax wants the ability to read a document provided by a customer and validate certain data points. Typically this would be a check stub and they would want to validate Amount, Date, Name etc. The collected data could also be used to validate other forms, proof of residence, or bank account information too.

What is your understanding of the problem?

Entering a large amount of data into an application can be a frustrating experience to the end user. Any way to reduce the amount of action required by the user is beneficial to the user experience.

What is your implementation plan?

Our plan is to create a working proof of concept that can allow a user to scan their check or pay stub and have the software parse the information from the photo. This would prevent the user from having to enter the data manually.

Describe your Solution Design / Architecture:

We plan on using Optical Character Recognition (OCR), a part of Cloud Vision API by Google, to read the text contained in the photo taken by the user. Then we will use client-side logic to determine what fields can be automatically populated by the text detected.

What is your technology platform?

We will be writing the mobile application in Xamarin or native Android (Kotlin). We will also use libraries and SDK’s provided by Google.

What are the solution benefits/advantages?

This solution will reduce friction for the user when filling out applications for Titlemax. This can lead to greater customer satisfaction, higher completion rates, and more profitability for Titlemax.

Describe your success criteria:

The proof of concept must be able to detect the text on the sample checks and prepopulate the fields. It must be able to do so, using several different layouts from the checks in case the information is located in different areas. It must also allow the user to confirm that the information is correct, edit the information manually, or enter the information entirely if the text is not able to be read, or the application does not believe it is valid for the required fields.