

# Case Study

Support and development for a global logistics firm

January, 2020

## Client

A US based global logistics firm.

## The Challenge

Initial tasks were to deliver scripts using Google Apps Script attached to Google Spreadsheets.

One of the biggest challenges on this project has been to deliver a consistent quality over multiple years. Project was already running before starting JS Tigers and turned out to be the biggest client of JS Tigers so far.

Technical challenges include integrating Google Spreadsheets with third party API, web development, deployment on Digital Ocean among others.

We are currently working on building a Machine Learning based solution for the client for reading data from “Shipping Orders” and directly import this data to a database with minimum human intervention.

## Google Workspace Support

1. Script for a Master Tracking Record (MTR) Spreadsheet. A dashboard kind of Spreadsheet which the client's team uses on a daily basis to track shipments at various stages of its journey, before being delivered to consignee.
2. Script for handling payment requests from ship companies against bookings. Semi-automated.
3. Google cloud printing script (now being phased out by Google).

4. Numerous other custom scripts to help the client run its business using Google Workspace on a day to day basis.
5. Weekly support.Resolving issues being faced by employees of the client on a day to day basis.
6. Script to integrate with a third party API.

## Web Development

We have developed a few simple web applications for the client:

1. A charting application using React, Node.js and MongoDB.
2. A [duty calculator](#) using HTML,CSS, JavaScript on frontend and Node.js application on backend. A third party API is called to fetch values for different duties being applied on a shipment.
3. A custom search application using Angular, Node.js and MongoDB. Problem statement was to search for a given string across multiple Google Spreadsheets.

## ML and AI based solution

We are currently working on doing a proof of concept for a new solution where we need to process different document formats (PDF, images, xlsx and Docs) for extracting data for a “Shipping Order”. We are exploring various Amazon services such as [Amazon Textract](#), [Amazon SageMaker Ground Truth](#) and [Amazon Comprehend](#).

## Few Screens from Duty Calculator

### Import Duty Calculator

\*mandatory

<b>Importing From*</b>	Currency
<input type="text" value="Australia"/> ✓	<input type="text" value="USD"/> ✓ ⓘ
<b>Importing To*</b>	Currency
<input type="text" value="United States"/> ✓	<input type="text" value="USD"/> ✓ ⓘ

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**HS Code\***

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<b>Product value*</b>	<input type="text" value="1000"/> ✓ ⓘ
USD	
<b># of Units</b>	<input type="text" value="55"/> ✓ ⓘ
	<input type="text" value="FOB"/> ✓ ⓘ

---

Duty tax calculated successfully.

## INPUT

**Origin Country Code:** AU  
**Origin Currency Code:** USD  
**Destination Country Code:** US  
**Destination Currency Code:** USD  
**HS Code:** 3110.09.1  
**Quantity:** 55  
**Value:** \$1,000.00  
**Product Description:** Fertilisers Mineral or chemical fertilisers, nitrogenous Urea, whether or not in aqueous solution  
**Contract Insurance Type:** FOB

## OUTPUT

**Quote Number:** 122420-903684  
**HS Code:** 3110.09.1000  
**Total Shipment Value:** \$55,000.00  
**Duty Rate:** 0%  
**Duty:** \$0.00  
**Merchandise Processing Fee:** \$190.52  
**Harbor Maintenance Fee:** \$68.75  
**Total Duty Related:** **\$259.27**  
**Exchange Rate:** 1  
**Currency Type Origin:** USD  
**Currency Type Destination:** USD  
**Duty Type:** General  
**Duty H S Code:** 3101.00.0000  
**Quantity:** 55

BACK

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# The Value

We believe by partnering with JS Tigers, client has been able to run their day to day operations efficiently. We have provided support on Google Workspace, Google Apps Script and web development using a very small team and limited budget.