To: File

From: Lawrence McDaniel

Date: 23-November 2017

Re: FAT Brands Data Loader Design Document

**Business Objective**. The Data Loader (“DL”) will enable a small group of accounting employees or 3rd party delegates to upload weekly store-level sales and traffic data to the FAT Brands consolidated data warehouse. Stores use a variety of POS systems, and accordingly they report in a variety of formats. A single point person in the LA corporate office is responsible for receiving and consolidating the weekly performance reports and putting all of the data into a standardized format recognizable by the DL. The DL recognizes a single standardized file format which is a tab-delimited text files with several standardized column names. This point person is assumed to be the primary user of the DL.

The DL provides a very basic set of utility features:

* A file viewer that shows uploaded files (name, size, load date) in a standard file system tree view layout
* An uploader
* A simple set of database reporting tools intended to provide minimal feedback to the user that uploads were successful and are reflected in the database contents

**Minimum System Requirements**. the DL is browser based. It requires a stable Internet connection and a browser, preferably Chrome though other browsers probably work fine as well. DL runs on any kind of desktop computer, including Windows, OS X and Linux desktop operating system. Technically, DL will also run from the browser of iPads, Galaxy Pads and even mobile phones, however, this would be a cumbersome experience.

**Technical Design Overview**. The DL is a serverless web app relying on a host of open source libraries and frameworks and pay-as-you-go cloud-based infrastructure services. Technology infrastructure services are provided by Amazon Web Services. All of these are managed services requiring minimal post-deployment administration.

**Front End**. The DL front end is built entirely with Angular 5, a free javascript framework developed and sponsored by Google, and, Bootstrap, an open-source application framework originally developed by Twitter. Angular/Bootstrap is a popular combination nowadays as it enabled small teams to rapidly create highly polished and device agnostic enterprise-class software products. As an added bonus, Angular projects tend to require minimal post-deployment support and administration.

**Back End**.

