**Restaurant Orders - PEP Project 1**

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**Change History**

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**Overview**

To prove our mettle as star coders, the elite freelance team The Powerpuff Girls has been tasked with creating a restaurant order management system powered by Pandas and SQL. The hiring company, MojoJojo.inc, seeks to increase revenue and sales via importing data from periodically generated files into a database, facilitating subsequent analysis. The task involves designing a robust Extract-Transform-Load (ETL) pipeline that seamlessly processes a given set of source files through a series of checkpoints.

**Objectives**

* Successfully parse .csv and .yaml files and extract data into Pandas dataframe
* Clean data and ensure integrity and consistency
* Design database schema and create database
* Implement export functionality from source files onto database

**Success Metrics**

* Reliable display of information
* Successful updating of database
* Minimal errors
* Objectives met

**Timeline & Release Planning**

Four days for Minimum Viable Product to be available for demonstration

**Personas**

MojoJojo.inc would use this management system to efficiently track and log every customer order made, along with customer demographics. Data analysis conducted off of the aggregate data would point to potential trends and patterns to help grow the business.

**Scenarios**

* Monkey #32 wants to find the most loyal customer and send them a gift card
* The Rowdyruff Boys need to find the most popular aperitif
* Star employee HIM would like to rank the most popular states from which customers placed orders

**Features**

* Extraction of data from .csv and .yaml files and format it into Pandas dataframe
* Function to clean and format data to reduce redundancy and repetition
* Function will merge this cleaned data from multiple sources into one dataframe
* Export function will transpose merged data onto created database
* Function to visualize data for purposes of analysis and pattern recognition

**Database Diagram**

**A screenshot of a computer

Description automatically generated**