The Problem <u></u> The Solution

should believe? With so many restaurant review sites available how do you know which one you

The Solution?

website that will provide several benefits. We have come up with a plan to combine the top review sites into one eas y to use

- More Reviews in one place
- Less biased results
- Standardized rating system

The Project

users to look up information about restaurants Design a database and website that would allow and restaurant reviews.

The challenges:

- How should such a database be structured?
- sources, standardize, and clean it? How to collect data from many different
- How to avoid manually having to input massive amounts of data?
- How to design the website?



We split our database Database Structure

into multiple tables for easier access

g rid int(10)

- Restaurant Cuisine
- Restaurants

Cuisine

- Restaurant Meals
- Ratings Meals

Sources

Getting Data -Data Scraping

zomato

yelp&

on tripadvisor

Getting Data -

Public APIs

data from JSON

Generally simple and already formatted

Easy to extract and configure into schema

city_id":

address": "3226 S locality": "Richm

- 1. Decided to scrape data from restaurant review websites.
- Added the Web Scraper Chrome extension.
- Designed a Web Scraper sitemap across TripAdvisor.
- 4. Run Web Scraper and wait for it to extract the data.

The Challenges:

Adapting API schema to our schema

"average_cost_for_two": ?
"price_range": 3,

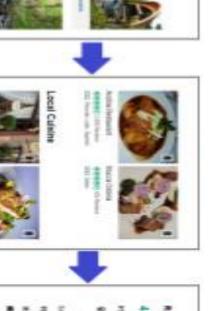
Difficult to distribute over multiple tables

Missing data or too much data

API access limits

O raddress
O roverall_raw
O rfood_raw
O rservice_rav



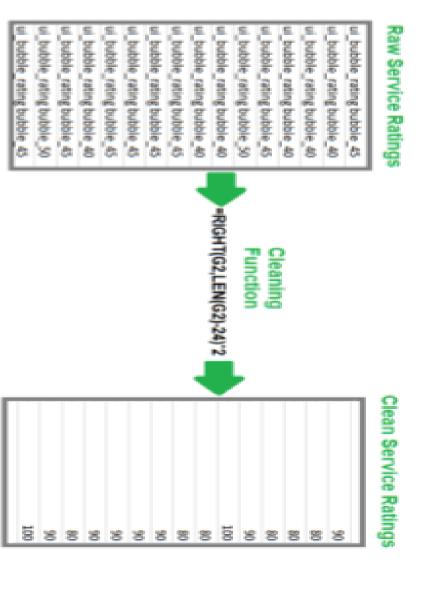




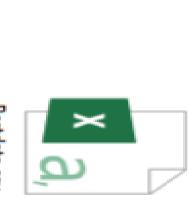


Cleaning the Data

- Used excel to work with the raw data.
- Used excel functions to clean columns of data.



ဣ Save cleaned columns as CSV file.

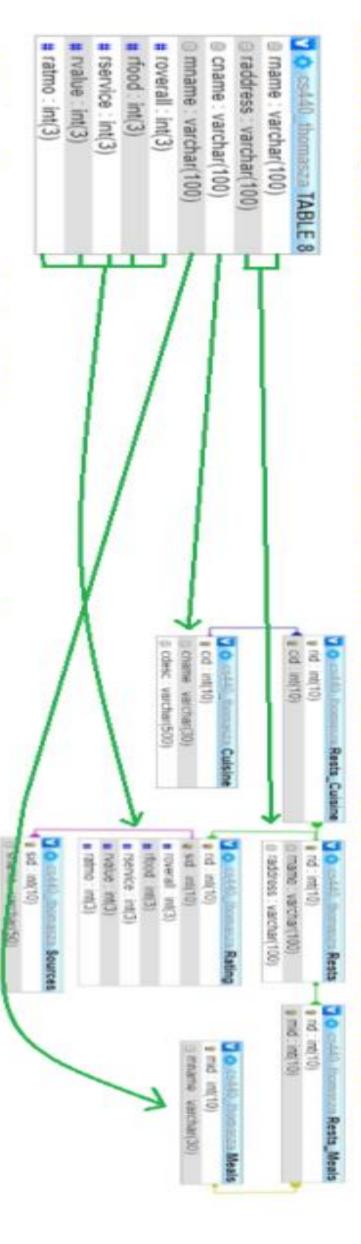


Inserting the Data into Database

phpMyAdm

Import

- Use the phpMyAdmin import feature.
- We now have all our data on one table
- Use a procedure to insert the data from this new table, into our Database.



Drop the new table. We are now done!

Insertion Procedures

and the source of our reviews. We give our procedure number of rows of our table, the





table. Loops over each row of

database.



Keeps track of new

generated IDs to maintain

relationships.

్లా expand_ row

Spreads a single row across the tables in the

database. created by SQL queries to our

Possible selectable queries include

Restaurant Review Website

果 We created a user friendly website using HTML, CSS, JavaScript, and

Users can look up tables that are

source, restaurant info + cuisine, restaurant info + review + review and restaurant info + menu items

