Criteria for Review

Scraping rules numbers 3 - 4 - 5 - 8 - 12 still apply in automatic/pdf scraping dish reviews.

Terms:

- **Entity:** MenuTitle or Dish. MenuTitle entities may have other entities associated with them in parent-to-child relationships.
- Property: Refers to an entity property. Any entity can have one or more properties
 associated with it. E.g. dish price, dish description, dish addons, menu title description,
 etc.
- PDF and Automatic Scraping have a different hierarchy compared to Manual Scraping. In Manual Scraping, we have empty menu titles, whereas, for PDF/Automatic Scraping, they are direct child dishes.
- The missing dish percentage is only applicable to food dishes.
 - Exclude Set Menus, Drinks, Gift Shops, and Dishes not meant for human consumption from the calculation of dish coverage percentages.
- Mandatory entity properties
 - Menu Titles
 - Diets & Allergens
 - Description that contains ingredients or prices
 - Addons (if applicable)
 - Dishes
 - Diets & Allergens
 - Description
 - Price (based on the acceptable threshold, check table)
 - Addons (if applicable)
- Optional Menu Titles:
 - Set Menus
 - Drinks
 - Gift Shops
 - Dishes not meant for human

Simplified Criteria

• <u>Success</u>: All entities and properties are scraped accurately, with no significant errors, and the menu structure is correct.

- <u>Partial Success</u>: Up to 10% of food dishes can be missing or have minor errors in property extraction, and minor logical hierarchy adjustments are acceptable also, we still accept up to 10% missing <u>mandatory entity properties</u>
- Rejection (Error): More than 10% of food dishes are missing, incorrect or invalid properties are extracted, major structural issues are present, or mandatory entity properties are missing more than 10%.

Success:

All entities and properties are scraped accurately, with no significant errors (only minor mistake/s), and the menu structure is correct.

Example:

If 10 of 10 entities were extracted perfectly, all entity properties such as dish description, price, and menu title description were captured. Some entities for menu titles may be missing minor properties (e.g., miscellaneous information), but this does not affect the overall accuracy of the extraction.

Minor Errors:

- Missing Menu Title MiscInfo excluding 'dietary legends'.
- Missing Menu Title Description that does not affect the menu such as schedules, addresses, or anything else that does not mention ingredients.

Partial Success:

Criteria:

- Up to 10% of food dishes can be missing or have minor errors in property extraction, and minor logical hierarchy adjustments are acceptable.
 - **Example:** If 9 out of 10 dishes are scraped, and the structure is still logical, this qualifies as a partial success.
- <u>Mandatory entity properties</u> are missing, but less than 10% of dishes (will be counted as missing dishes percentage)
 - **Example:** If 10 out of 10 dishes are scraped, and the structure is correct, but one dish is missing dish description/diets/any mandatory entity properties, still acceptable since still within <10% of the missing dishes threshold

Error:

Criteria:

- More than 10% of dishes are missing
- Unacceptable hallucination information
- Incorrect or invalid properties are extracted
- Major structural issues are present
- <u>Mandatory entity properties</u> are missing, and more than 10% of dishes (will be counted as the missing dishes percentage)

Example:

If a menu has 10 dishes, more than 1 missing dish (i.e., more than 10%) would be marked as an error. Additionally, if incorrect or invalid properties have been extracted, it should also be considered an error.

Acceptable Variations

We're adding these categories because they apply to all Automatic, PDF, and Success Variant tasks. These acceptable variants help us allow more valid outputs, especially since the current LLM tool has some limitations—while still following our scraping SOP.

A. Content-acceptable variations

Below are representative examples of how item fields can be combined or separated and are acceptable.

- 1. Name
 - 1.1. Name Only
 - 1.2. Name + Description
 - 1.3. Name + Price
 - 1.4. Name + Diets
 - 1.5. Name + Allergens
 - 1.6. Name + Addons
 - 1.7. Name + MiscInfo
- 2. Description
 - 2.1. Description Only
 - 2.2. Description + Price
 - 2.3. Description + Diets
 - 2.4. Description + Allergens
 - 2.5. Description + Addons
 - 2.6. Description + MiscInfo
 - 2.7. Description + Calories
- 3. Price
 - 3.1. Price Only
 - 3.2. Price + MiscInfo
- 4. Diets
 - 4.1. Diets Only
 - 4.2. Diets + Addons
 - Note that this only applies to diet choices such as VGO, VO, etc.
 - 4.3. Diets + Allergens
- 5. Allergens
 - 5.1. Allergens Only
- 6. Addons
 - 6.1. Addons Only
 - 6.2. Addons + MiscInfo
- 7. MiscInfo (minor)
 - 7.1. MiscInfo Only
- 8. Calories (minor)
 - 8.1. Calories Only
- 9. Ingredients (minor)

9.1. Ingredients Only

10. Nutritions (minor)

- 10.1. Nutritions Only
- 10.2. Nutritions + Calories

Notes:

- A merging is permissible if it retains clarity.
 - Example: Inserting Price randomly in Name might alter the meaning, so most likely it should be allowed only before or after Name.

B. Structural Acceptable Variations

Below are acceptable ways to arrange dishes, sub-sections, or "add-on" sections at different levels:

- 1. **Dishes Merged into Parent Add-ons**: for example, extras ("Hash Browns") under "Brunch Menu" listed under "Brunch Menu" as an add-on rather than a standalone dish.
- 2. **Menu Title Add-ons Scraped as Individual Dishes**: for example, an "Extras" section under "Brunch Menu" may appear as separate dish entries under "Brunch Menu".
- 3. Acceptable Root-Level Menu Title:
 - a. E.g. Even if the Auto/PDF explicitly labels the menu as "Takeaway Menu," the output could just label it "Menu" and remain acceptable
 - b. E.g. Missing Menu Title which not affects the menu, eg. "Food" or "Drinks"
- 4. **Logical Hallucinated Menu Titles**: If the Auto/PDF has no section headers and the LLM infers "Starters" or "Main Courses" for clarity, this is acceptable, *provided it makes logical sense*.
- 5. **Dishes Linked to Grandparent Menu Title**: Only acceptable if the **parent** menu title has no meaningful food data (e.g., a purely decorative text block). In such cases, a dish can be assigned to the grandparent section.
- 6. Acceptable Duplicate Information: Duplicates are only acceptable in the following cases:
 - a. Dish Prices: When the price is scraped in both the Dish Title and Price fields.
 - b. Dish Diet: When the dietary information is scraped in both the Dish Title/Description and Diet fields.

Some Common Cases for Partial Success vs Errors:

Criteria	Partial Success	Error
Dietary legends: Missing Menu MiscInfo 'dietary legends' Dietary legends scraped as Menu Description instead of Menu MiscInfo.	Yes	No
Any other relevant information was scraped under Description.	Yes	No
Menu Title Levelling	Yes, if: • Wines MT > Dish • Cocktails MT > Dish • Folded Pizza > Dish • Cheese Pizza > Dish	Yes, if: • Drinks > Dish from Wines MT • Drinks > Dish from Cocktails MT • Pizza > Dish from Folded Pizza MT • Pizza > Dish from Cheese Pizza MT
Dishes merged into addons logically	Yes, if:	Yes, if:
There are any hallucinated Menu Titles	Yes, if the inferred menu titles are logical and the attached dishes make sense.	No, if the inferences are illogical or incorrect.

There are any hallucinated dishes	No	Yes
Critical food menu section is missing	Yes, if 90%+ dish coverage is achieved and missing sections are minor or optional menu titles.	Yes, if dish coverage is <90%.
 Optional Menu Titles Optional menu titles are missing Some properties are missing for Optional menu titles 	Yes	No
Missing menu titles explicitly mentioning dietary preferences	No	Yes, if dietary-specific titles (e.g., Halal Burger) are missing or incorrectly generalized (e.g., only 'Burger' instead of 'Halal Burger').
The Menu Title Diets/Price applied to all children dishes	Yes, if they are applicable to all the dishes under it and being extracted properly under each dishes.	No
Duplicate information (LLM derived from other entity properties)	Yes, if: Dish Prices was scraped in both Dish Title/Description and Price Dish Diets/Allergens were scraped in both Dish Title/Description and Diets, eg. Dish name: Bananarama Dish Description: Nut milk banana, medjool dates or raw organic coconut sugar Dish Allergens: Nut milk	No
Duplicated Dishes/Sections	No	Yes
MT/Dish Descriptions were incorrectly misplaced to another menu title level/dishes	No	Yes

MT Addons scraped as Dish Addons, vice versa	No	Yes
Dishes scraped as MT descriptions	No	Yes
Dish Price: Dish Price is missing more than 50% of the total dish prices Dish Price is incorrect or hallucinating	No	Yes
Addons prices were extracted as part of the base dish price	Yes	No
Addons Diets are picked up as base Dish Diets.	No	Yes
Extra characters are scraped	Yes, if extra spaces, quotes, or minor capitalization errors that do not impact understanding are acceptable.	Yes, if /n was scraped as this triggers Nut allergen in CT.
	Yes, if the icon's meaning is ambiguous (e.g., a leaf symbol where it is unclear if it indicates Vegan or Vegetarian) and missing	Yes, if the icon is clear and text-based (e.g., a "V" within a circle explicitly indicating Vegan) and missing.
Diets/Allergens information represented by icon/img	Some examples: •	Some examples where > Diets/Allergens should be retrievable: • 173226.pdf • 1195.pdf
Mandatory entity properties are missing and less than 10% of dishes	Yes	No
Mandatory entity properties are missing and more 10% of dishes	No	Yes