# An ontology-based restaurant system

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# 1 Intro

I used this [1].

# 2 Requirements of the ontology

These are the requirements of the ontology so that it can store all the information that I would like it to:

- Ingredient list for every meal on a menu, split into the components of the dish.

- Calorific content of each meal.

- Allergen information for each meal.

- Types of customer e.g. Vegetarians and those with Coelaic disease.

These are possible additions that could be made to the ontology, but are not necessary for the MVP:

- The ability to query a dish with ingredients added or removed.

- The ability to query a dish based on how a dish has been cooked, e.g. Which meals have not used a deep fryer to be made?

The requirements of the user interface for restaurant owner:

- Add and remove meals using ingredients and components list.

- Add and remove ingredients and components, in same page as above and separate.

- Add and remove customer types (dietry requirements and allergens).

- Query the ontology.

Dietary Requirements to filter by:

- Vegetarian

- Pescetarian

- Vegan

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Allergies[**?**]:

- Peanut

- Ceoliac (gluten)

- Wheat

- Cow's milk

- Eggs

- Fish

- Shellfish

- Tree nuts

- Soybeans

# 3  Bibliography

# References

[1] Michael DeBellis. Protege 5 new owl pizza tutorial v3.2.pdf, 2021.