CLAIMS

What is claimed is:

1. A method for identifying a match with a product, comprising

extracting, by a processor, one or more attributes relating to a product from an image of the product indicated in a request for identifying the product, each of the one or more attributes describing the product;

adapting, by the processor, the one or more attributes based on historical data relating to the product into a same format as that of one or more entries in a database, the database comprising one or more entries for each of a plurality of products;

selecting one or more products from the plurality of products in the database based on a rule-based comparison of at least one of the one or more attributes with each corresponding entry in the database;

identifying a match with the product from the selected one or more products, the identification based on comparing, by the processor, the one or more attributes with each corresponding entry of the selected one or more products;

calculating a score for each of the selected one or more products based on the comparison; and

identifying the match with the product when the score for the match is a highest score of the calculated scores and greater than a threshold value.

2. The method of claim 1, further comprising:

verifying whether each of the selected one or more products excluding the identified match having a score greater than the threshold value is also a match with the product; and

retraining the processor based on the verification.

3. The method of claim 1, wherein selecting the one or more products from the plurality of products in the database based on the rule-based comparison further comprises:

identifying one or more key attributes from the one or more attributes; and

selecting the one or more products from the plurality of products in the database based on comparing the one or more key attributes with each corresponding entry in the database.

4. The method of claim 1, further comprising adapting, by the processor, the one or more attributes into at least one of a unit of measurement, quantity, language or item name that is the same as that of one or more entries in the database.

5. The method of claim 1, wherein the database further indicates an identifier for each of the plurality of products, the method further comprising mapping the product with the identifier of the identified match.

6. A system for identifying a match with a product, comprising:

at least one processor; and

at least one memory including computer program code;

the at least one memory and the computer program code configured to, with the at least one processor, cause the system at least to:

extract, by a processor, one or more attributes relating to a product from an image of the product indicated in a request for identifying the product, each of the one or more attributes describing the product;

adapt, by the processor, the one or more attributes based on historical data relating to the product into a same format as that of one or more entries in a database, the database comprising one or more entries for each of a plurality of products;

select one or more products from the plurality of products in the database based on a rule-based comparison of at least one of the one or more attributes with each corresponding entry in the database;

identify a match with the product from the selected one or more products, the identification based on comparing, by the processor, the one or more attributes with each corresponding entry of the selected one or more products;

calculate a score for each of the selected one or more products based on the comparison; and

identify the match with the product when the score for the match is a highest score of the calculated scores and greater than a threshold value.

7. The system of claim 6, further configured to:

verify whether each of the selected one or more products excluding the identified match having a score greater than the threshold value is also a match with the product; and

retrain the processor based on the verification.

8. The system of claim 6, wherein selecting the one or more products from the plurality of products in the database based on a rule-based comparison further comprises:

identifying one or more key attributes from the one or more attributes; and

selecting the one or more products from the plurality of products in the database based on comparing the one or more key attributes with each corresponding entry in the database.

9. The system of claim 6, further configured to:

adapt, by the processor, the one or more attributes into at least one of a unit of measurement, quantity, language or item name that is the same as that of one or more entries in the database.

10. The system of claim 6, wherein the database further indicates an identifier for each of the plurality of products, and wherein the system is further configured to map the product with the identifier of the identified match.