**MISSING TITLE**

**INTRODUCTION**

The following documentation is meant to show the functionalities of the system, the phases of the software development, a description of how System X was implemented and the testing activities to which the system was subjected.

System X offers an overview of the most famous Italian cities in the culinary field: it allows to know the typical dishes of each location by showing their recipes and the restaurants where they can be eaten. The system allows to select some ingredients and it shows the dish that fits best with the selected ingredients.

For each restaurant, the system allows seeing some information like its prices, and it is possible to read all the reviews on TripAdvisor and to write a new one there. System X is also able to generate scheduling of the meals in the best restaurants placed in the selected city and the specified period.

Finally, the system allows restaurant owners to manage their menu by adding a variant of a recipe.

System X has some features in common but also some new functionalities compared to two already existing software:

1. **Cucchiaio.it:**

* Common features: both systems allow to find the typical food of various Italian places and the related recipes.
* Advantages of System X: it offers the possibility to look for the restaurants where it is possible to eat typical food. It also allows organizing the meals on a trip by showing the restaurants that offer typical food of a specific place.
* Disadvantages of System X: it does not allow to look for recipes with filters such as “fast recipes”, “kid recipes”, “vegan recipes” or “easy recipes”.

1. **TripAdvisor:**

* Common features: both systems allow to find and review restaurants of various Italian cities.
* Advantages of System X: it offers the chance to read the recipes of the typical dishes and to find the recipe that fits best with the ingredients that are already available at home.
* Disadvantages of System X: it is not a support that allows organizing a trip entirely, so it does not have an area dedicated to flights, hotels or vacation houses.

**USER STORIES**

1. As a user, I want to know what is the typical food for each city, so that I can taste it.
2. As a user, I want to read the recipe of all the dishes, so that I can cook them at home.
3. As a user, I want to select the ingredients I have, so that I can find the recipe I can cook.
4. As a user, I want to manage a shopping list, so that I can remember what I have to buy to cook a dish.
5. As a tourist, I want to look for the restaurants in a city where I can enjoy a typical dish so that I can have an amazing experience with food.
6. As a user, I want to save up to three restaurants, so that I can receive notifications about them.
7. As a user, I want to choose the restaurants that fit my budget, so that I can avoid paying too much to enjoy typical food.
8. As a tourist with high demands, I want to be able to look for restaurants in a specific range of *quality* (I), so that I can eat typical food only in the best-rated places.
9. As a vegan user, I want to look for the restaurants that offer vegan dishes, so that I can satisfy my food requirements while enjoying typical food.
10. As a user with celiac disease, I want to look for the restaurants that offer dishes for people with celiac disease, so that I can satisfy my food requirements while tasting typical dishes.
11. As a registered user, I want to receive and memorize a schedule of restaurants, so that I can taste typical food in the place I will go to for a trip.
12. As a registered user, I want to put a review for the restaurant where I ate, so that other users will know about my experience in this place.
13. As a user, I want to read the reviews of a restaurant, so that I will know the opinion of other people about this place.
14. As a restaurant owner, I want to add a variant of a recipe in my menu, so that my menu will always be updated.

**FUNCTION REQUIREMENTS**

1. The system shall provide typical dishes for each city with:  
    -their recipes;  
    -the restaurants placed in the city where these dishes are typical.
2. The system shall provide the recipe that fits best with the selected ingredients.
3. The system shall provide:  
    -the adding of some ingredients of a dish to a shopping list;  
    -the removing of some ingredients from the shopping list.
4. The system shall provide the restaurants for each city.
5. The system shall provide a list of the restaurants that satisfy:  
    -the selected budget;  
    -a range of *quality* (I);  
    -possible food requirements for vegan users or people with celiac disease.
6. The system shall provide the memorizing of three restaurants.
7. The system shall provide a schedule of restaurants based on:  
    -date and time of the first day;  
    -date and time of the last day;  
    -the budget;  
    -a range of *quality* (I);  
    -possible food requirements for vegan users or people with celiac disease;

for a trip in a specific city.

1. The system shall provide a review system.
2. The system shall provide the updating of a recipe in a menu restaurant.
3. The system shall send a notification to the restaurant owner every time a user publishes a review for his/her\* restaurant.
4. The system shall send a notification to the restaurant owner every time a user saves a schedule that includes his/her\* restaurant.
5. The system shall send a notification to the *interested users* (II) every time a restaurant owner update a recipe in his/her menu restaurant.

\* ”His/her” refers to the restaurant owner.

**Dictionary**  
(I) *Quality*: judgment based on the reviews.

(II) *Interested user*: a user who memorized a specific restaurant.