



# UNIVERSITÀ DEGLI STUDI DELL'AQUILA

Dipartimento di Ingegneria e Scienze dell'Informazione e  
Matematica

CORSO DI LAUREA MAGISTRALE IN INFORMATICA (ASE)

Insegnamento Model Driven Engineering

NAME AND SURNAME	STUDENT NUMBER
Luca Francesco Macera	302123
Calogero Carlino	302154

# Concrete Syntax Definition

The concrete syntax of a language is the set of notations and rules that defines how the functionalities of the program will be presented, and how the user can interact with them to create a final product.


The syntax defined for the Restaurant Metamodel is made up of the following:

- **RestaurantView:** it's the container that displays all the information of a restaurant entity like the name, the address, the telephone number. Contained in this view are the rest of the other references present in a restaurant entity like the menus, employees, owners and the various rooms like dining rooms, kitchens and bathrooms.
- **DiningRoomView:** it's the container that displays all the information of a specific dining room of a restaurant, like the name and the tables associated with it. For each dining room it's possible to add a new table or remove it. For each table present, it's possible to update the unique number and the number of seats.
- **BathroomView:** it's the container that displays all the information of a specific bathroom of a restaurant. For each bathroom it's possible to update the name, the target gender, the number of toilets available and the flag to specify if the bathroom is accessible to disabled people or not.
- **KitchenView:** it's the container that displays all the information of a specific kitchen of a restaurant. For each kitchen it's possible to update the name, the number of stoves available and the dimensions of the room, like the perimeter and the area.
- **EmployeeView:** it's the container that displays all the information of a specific employee of a restaurant. For each employee it's possible to update the name, the surname, the gender, the fiscal code, the birth date and place, its specific role in the associated restaurant, the contract sign and expiration date and, lastly, the salary.
- **OwnerView:** it's the container that displays all the information of a specific owner of the restaurant. It has the same functionalities of the **EmployeeView** but specifically made to work with the data of an owner.
- **MenuView:** it's the container that displays all the information of a specific menu available in the restaurant. For each menu it's possible to update the information relative to the list of courses that can be ordered, like the name of the course, the type, the price and the number of pieces.

# Concrete Syntax Display


<div><i>Kuma Sushi</i></div>	
Address: <div>Piazza Gabriele Rossetti 3<sup>5</sup></div> , <div>66054</div> , <div>Vasto</div> , <div>Abruzzo</div>	
Telephone number: <div>065880787</div>	
Menu	
<div>Pranzo</div> <div>Name: <div>Sake nigiri</div></div> <div>Price: € <div>3</div></div> <div>Type: <div>Nigiri</div> ▾</div> <div>Number of pieces: <div>3</div></div>	<div>Cena</div> <div>Name: <div>Sake nigiri</div></div> <div>Price: € <div>3</div></div> <div>Type: <div>Nigiri</div> ▾</div> <div>Number of pieces: <div>3</div></div>
<div>Name: <div>Riso alla cantonese</div></div> <div>Price: € <div>7</div></div> <div>Type: <div>MainDish</div> ▾</div> <div>Number of pieces: <div>1</div></div>	<div>Name: <div>Riso alla cantonese</div></div> <div>Price: € <div>7</div></div> <div>Type: <div>MainDish</div> ▾</div> <div>Number of pieces: <div>1</div></div>
<div>Name: <div>Prova</div></div> <div>Price: € <div>20</div></div> <div>Type: <div>Nigiri</div> ▾</div> <div>Number of pieces: <div>10</div></div>	<div>Name: <div>Gio stella</div></div> <div>Price: € <div>5</div></div> <div>Type: <div>Appetizer</div> ▾</div> <div>Number of pieces: <div>2</div></div>


## Owners



Senku

Ishigami

 SHGSNK04A04E372Q

 2004-01-04

Birthplace: 

Tokyo

,

JP-13


,

Kanto di Honshu

Gender: 


Male


VAT:



Prova

Sossy

 dasd

 2002-12-12

Birthplace: 

Vasto

,

66054

,


Abruzzo

Gender: 

Male


VAT: asdasa


## Employees



Taiju

Oki

 TAOKI03A02E372Q

 2003-04-02

Birthplace: 

Tokyo

,

JP-13

,

Kanto di Honshu

Gender: 

Male


Role: 

Waiter

Contract sign date: 2024-11-05


Contract expiration date:


Salary: € 1500



Francois

Foransowa

 FRF097L08E372Q

 1997-08-07

Birthplace: 

Tokyo

,

JP-13

,

Kanto di Honshu

Gender: 

Female

Role: 

headChef

Contract sign date: 2024-11-05

Contract expiration date: 2027-06-10

Salary: € 2200



Kattivic

 adadasdsaddasasd

 1990-05-12

Birthplace: 

Tokyo

,

JP-13

,

Kanto di Honshu

Gender: 

Female

## Kitchens

*Guoba*

Number of stoves:

6



*Dog*

Number of stoves:

5



## Bathrooms

*Benjou*

Not Accessible

Male

Number of toilets:

2



*Tearai*

Accessible

Female

Number of toilets:

2



*ProvaBagno*

Not Accessible

Male




Number of toilets:




5







## Dining Rooms

*Panda*

  
**TABLE**   
Number of chairs:   
   


  
**TABLE**   
Number of chairs:   
   


*Kuma*

  
**TABLE**   
Number of chairs:   
   


Prova



TABLE

19

Number of chairs:

5



Prova2