# Startdocument for 'The catering company (Assignment 9)'

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#### **Problem Description**

A company provides catering for people. For the period indicated with a start date and an end date, the administration for a number of customers are processed. One day a customer can order an appetizer (3 euros) and or a main course (5 euros) and or a dessert (2 euros). A program should be developed that enables each customer to name, number of starters, number of main courses and number of desserts is stored that the customer has had. Ultimately, the company wants to presented the following information:

- The total revenue;
- The average turnover per day;
- The name of the customer who has the highest amount consumed;
- The name of the customers who have had appetizers but never had one dessert:
- The names of the customers who for an amount higher than the average per customer.

#### Input & Output

In this section the in- and output of the application will be described.

**Input** In the tables below all the input (that the user has to input in order to make the application work) are described.

#### CateringCompany

Case	Type Conditions	function/method	additional info
String	String not empty	constructor, setter	name of a dish
List	List <assignement></assignement>	setter	Assigntments a catering company has

#### Assignment

Case	Type	Conditions	function/method	additional info
String name	String	not empty	constructor, setter	name of the catering company
DateTi startDa		maill date, including year, month, day and time.	constructor, setter	day the catering company starts taking care of their customers which are related to a company
DateTi endDat		maill date, including year, month, day and time.	constructor, setter	day the catering company stops taking care of their customers which are related to a company
List custom		ustomer>	setter	all customers who have pruchased an appetizer, main course or dessert at the catering company
List availab	List <d leDishes</d 	ish>	setter	all dishes that the catering company has available for selling.

## $\mathbf{Dish}$

Case	Type	Conditions	function/method	additional info
float price	float	price > 0	constructor, setter	price of a dish
String name	String	not empty	constructor, setter	name of a dish
boolean appetize		ntrue or false	constructor, setter	specifies if the dish is an appetizer. If true, mainCourse and dessert must be false
boolean mainCor		ntrue or false	constructor, setter	specifies if the dish is a maincourse. If true, appetizer and dessert must be false
boolean dessert	boolea	ntrue or false	constructor, setter	specifies if the dish is a dessert. If true, maincourse and appetizer must be false

#### ${\bf Customer}$

Case	Type	Conditions	function/method	additional info
String name	String	not empty	constructor, setter	name of a customer
List ordered	List <d lDishes</d 	ish>	setter	a list of all the dishes that a customer has consumed from the catering company

## Output

## ${\bf Catering Company}$

Case	Type	function/method	
Get the name of a catering company	String	Name()	
Get the list of assignt- ments a catering- Company has	List <assigme< td=""><td colspan="2">igmenA≽signments()</td></assigme<>	igmenA≽signments()	

## Assignment

Case	Type	function/method
Get the name of the catering	String	Name()
company Get the list of customers	List <custom< td=""><td>er&amp;ustomers()</td></custom<>	er&ustomers()
Get all available dishes	List <dish></dish>	A vailable Dishes ()

Case	Type	function/method
		<u> </u>
Get the startdate of	DateTime	StartDate()
when the		
catering		
company is		
taking care		
of the		
catering	<b>5</b> . <b>5</b>	
Get the enddate of	DateTime	EndDate()
when the		
catering		
company is		
taking care		
of the		
catering		
Get the	float	$\operatorname{calculateRevenue}()$
entire revenue the		
catering		
company		
has made		
Calculate	float	${\bf calculate Average Revenue}()$
the average		
revenue over		
a specific		
date Retrieve the	Customer	getBiggestConsumer()
biggest	Customer	getDiggestConsumer()
consumer in		
customer		
terms		
Get all	List <custon< td=""><td>nergetAppetizerCustomer()</td></custon<>	nergetAppetizerCustomer()
customers		
that have		
had appetizers,		
but no		
desserts		

Case	Type	function/method
Get all the customers that have spend money on dishes which is above average	List <custome< td=""><td><math display="block">{\bf rget Above Average Customers}()</math></td></custome<>	${\bf rget Above Average Customers}()$
Once a customer orders a dish, sell that dish to the customer	Dish	sellDish()

#### $\mathbf{Dish}$

Case	Type	function/method
Get the price of a dish	float	Price()
Get the name of a dish	String	Name()
Get the result if the dish is a appetizer	Boolean	Appetizer()
Get the result if the dish is a main course	Boolean	MainCourse()
Get the result if the dish is a dessert	Boolean	Dessert()

#### ${\bf Customer}$

Case	Type	function/method
Get the name of a customer	String	Name()
Retrieve all dishes that a specific customer has ordered for a specific date	List <dish></dish>	OrderedDishes()
Order a dish as a customer	Dish	orderDish()

# Class Diagram

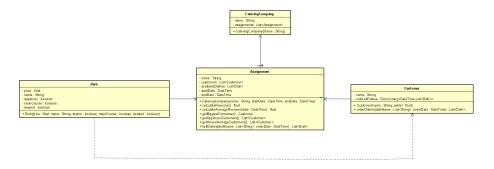


Figure 1: image

## Testplan

## Customer

#### Ordering a dish

Customer	Dish name	Date	price
Willem	<ul><li> Chateau briand - Tomatensoep</li><li> Tomatensoep</li><li> Pavlova</li></ul>	4-6-2022	5.00
Myrthe		4-6-2022	2.00
Michel		4-6-2022	2.00

## Assignment

Revenue total	Revenue day specific	Biggest consumer	Appetizer customers	Customers that ordered above average
9: input: button	9: input: 4-6-2022	Willem input: button	Myrthe input: button	Willem input : button