

Restaurant

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May 31, 2017

1. Employee login

Priority:	1
Pre-conditions:	Employee is not logged in System displays login screen
Post-conditions:	Employee is logged in System displays employee's menu
Primary Actor:	Employee
Other Actions:	-
Trigger:	-

1 Main Scenario

1. Employee enters his/her identification code
2. System validates code and logs user in
3. System displays employee's menu

2 Extensions

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3 Alternatives

- 2a System does not validate code and displays login error message
- 2c System returns to login screen

2. Employee logout

Priority:	1
Pre-conditions:	Employee is logged in System displays employee's menu
Post-conditions:	Employee is not logged in System displays login screen
Primary Actor:	Employee
Other Actions:	-
Trigger:	-

1 Main Scenario

1. Employee selects log out option
2. System logs user out and displays login screen

2 Extensions

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3 Alternatives

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3. Accommodate a client

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Priority:	1
Pre-conditions:	Receptionist is logged System displays receptionist's menu
Post-conditions:	There is a table occupied and waiting for service Sector waiter was notified System displays receptionist's menu
Primary Actor:	Receptionist
Other Actions:	-
Trigger:	-

1 Main Scenario

1. Receptionist selects "accommodate client" option
2. System asks for client's reservation
3. Receptionist informs that this client has no reservation
4. System asks for number of people
5. Receptionist informs a number n of people
6. System selects free tables with at least n seats²
7. System displays selected tables
8. Receptionist selects a table
9. System tags table as occupied and waiting for service
10. System informs the sector waiter(s) that the table is waiting for service
11. System displays receptionist's menu

What if there is no waiter logged in?

2 Extensions

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¹Future: create wait list for tables

²at this moment, the system includes in the search any reserved table whose client more than 30 minutes late and that fits the search. The table is automatically tagged as not reserved

3 Alternatives

2a Receptionist cancels selected option

2b System displays receptionist's menu

3a Receptionist informs that this client has a reservation

3b System displays a list of valid reservations, ordered by client's name and reservation time

3ca1 Receptionist finds client's reservation

3ca2 Receptionist selects client's table

3ca3 Continues at step 9 in the main scenario

3cb1 Receptionist does not find client's reservation

3cb2 Continues at step 3 in the main scenario

4a Receptionist cancels selected option

4b System displays receptionist's menu

5a1 Informed number of people is invalid³

5a2 System displays corresponding error message

5a3 Continues at step 4

5b1 System informs receptionist that there are no tables available

5b2 System displays receptionist's menu

8a Receptionist cancels selected option

8b System displays receptionist's menu

³not a number; or $n \leq 0$; or n is greater than the capacity of the biggest table

4. Reserving a table

Priority:	1
Pre-conditions:	Receptionist is logged in System displays receptionist's menu
Post-conditions:	Table is tagged as reserved System displays receptionist's menu
Primary Actor:	Receptionist
Other Actions:	-
Trigger:	-

1 Main Scenario

1. Receptionist selects "reserve table" option
2. System asks for date, hour and number of guests for the reservation
3. Receptionist informs date D , hour H and number N of desired guests
4. System selects tables that have at least N seats which are also free at the day D and hour H
5. System displays selected tables
6. Receptionist selects a table
7. System displays reservation and asks for confirmation
8. Receptionist confirms reservation
9. System tags the table as reserved at day D and hour H
10. System displays receptionist's menu

2 Extensions

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3 Alternatives

1

- 2a Receptionist cancels selected option

¹Future: option to display other tables at near times when no available ones are found

2b System displays receptionist's menu

4a There are no tables available for N guests at the day D and hour H

4b System informs receptionist that there are no available tables

4c System asks for a new number N of guests

4d Continues at Step 4

5a Receptionist cancels selected option

5b System displays receptionist's menu

8a Receptionist does not confirm reservation

8b Continues at Step 5

5. Cancel a reservation

Priority:	-
Pre-conditions:	Receptionist is logged in There is a reserved table System displays receptionist's menu
Post-conditions:	Table is no longer reserved System displays receptionist's menu
Primary Actor:	Receptionist
Other Actions:	-
Trigger:	-

1 Main Scenario

1. Receptionist selects "cancel reservation" option
2. System displays a list of reservations, ordered by date and hour of reservation
3. Receptionist selects an item of the list
4. System verifies that date and hour of the reservation are after the 30 minutes before the date and hour of cancellation. System asks for confirmation of cancellation
5. Receptionist confirms cancellation
6. System cancels reservation and tags the table as free
7. System displays a successful cancellation message
8. System displays receptionist's menu

2 Extensions

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3 Alternatives

- 2a1 There are no tables tagged as reserved in the system
- 2a2 System tells receptionist that there are no reserved tables
- 2a3 System displays receptionist's menu
- 3a1 Receptionist cancels selected option
- 3a2 System displays receptionist's menu

4a1 Date and time of reservation are before the 30 minutes before date and time of cancellation

4a2 System cancels reservation and tags table as free

4a3 System displays receptionist's menu

5a1 Receptionist does not confirm cancellation

5b1 System displays receptionist's menu

6. Serve a table

Priority: 1

Pre-conditions: Waiter is logged in
There is an occupied table waiting for service
System displays waiter's menu

Post-conditions: An order was sent to kitchen
System displays waiter's menu

Primary Actor: Waiter

Other Actions: -

Trigger: -

1 Main Scenario

1. Waiter selects "serve table" option
2. Systems asks waiter for the table number
3. Waiter informs the number of the table to be served
4. System verifies that there is an open order for this table and recovers it
5. System displays the open order and the options "insert item", "remove item" and "close order"
6. Waiter selects "insert item" option
7. System asks for the item code in the carte¹
8. Waiter informs the correct code
9. System verifies that the item² is available in the inventory
10. System displays a description of the item corresponding to the informed code and ask for confirmation
11. Waiter confirms item inclusion
12. System includes the item as a pending request for the order and updates inventory
13. Steps 6 to 12 and/or 6a to 6aa6 are repeated until the waiter selects the "close order" option
14. Waiter selects "close order" option
15. System verifies that the order has pending requests

¹using carte to refer to the menu of the restaurant without mistaking it for the menus of the system

²or all of its ingredients

16. System displays (starters, main course, dessert, beverages) the items in the pending requests that were not sent to kitchen for waiter revision and asks for the items confirmation
17. Waiter confirms order update
18. System sends the requests to the kitchen and tags it as “Sent”
19. System displays waiter’s menu

review:
when is
the order
created?

2 Extensions

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3 Alternatives

- 2a1 Waiter cancels selected option
- 2a2 System displays waiter’s menu
- 3a1 The number of the table is invalid
- 3a2 System displays message showing the reason why the table is invalid³
- 3a3 Continues at Step 2
- 4b1 System verifies that there is no open order for this table
- 4b2 System opens an order for this table
- 4b3 Continues at Step 5
- 6a Waiter selects “remove item” option
 - 6aa1 System displays a list of items in the order
 - 6aa2 Waiter selects item to be excluded
 - 6aa3 System asks for confirmation
 - 6aa4 Waiter confirms exclusion
 - 6aa4a Waiter does not confirm inclusion
 - 6aa4b Continues at Step 5
 - 6aa5 System excludes item from the order and updates inventory
 - 6aa6 Continues at Step 5
- 6ab1 Waiter cancels selected option
- 6ab2 Continues at Step 5
- 6ac1 System verifies that the order does not have pending requests

³Maybe the waiter wasn’t associated to table by the manager

- 6ac2 System displays corresponding error message
- 6ac3 Continues at Step 5
- 6b1 Waiter cancels selected option
- 6b2 System displays waiter's menu
- 7a1 Waiter cancels selected option
- 7a2 System displays waiter's menu
- 8a1 Waiter informs an invalid code
- 8a2 System displays a corresponding error message
- 8a3 Continues at Step 7
- 9a1 System verifies that the item⁴ is not available at the inventory
- 9a2 System display message that item is not available
- 9a3 Continues at Step 7
- 11a1 Waiter does not confirm item inclusion
- 11a2 Continues at Step 5
- 15a1 System verifies that order does not have pending requests
- 15a2 System displays a corresponding error message
- 15a3 Continues at Step 5
- 17a1 Waiter does not confirm order update
- 17a2 Continues at Step 5

⁴or one of its ingredients

7. Close a table

Priority: 1

Pre-conditions: Waiter is logged in
There is a table with a sent order
System displays waiter's menu

Post-conditions: Table is tagged as free and waiting for cleaning
Payment was realized

System displays waiter's menu

payment
related
stuff

Primary Actor:

Other Actions:

Trigger:

1 Main Scenario

1. Waiter selects "close table" option
2. System asks for the number of the table
3. Waiter informs the number of the table being served
4. System verifies that there is an order for this table and recovers it
5. System displays all items ordered and processed on the table together with the total value of the order. It also displays separately the service tax (10%).
6. System asks for confirmation of service tax payment
7. Waiter confirms service tax
8. System asks for order payment confirmation
9. Waiter confirms order payment
10. Systems updates the shift earnings with the order value. System updates the waiter earnings and adds the rest of the payment in a funding for kitchen helpers
11. System tags table as free and waiting for cleaning and finishes any order associated with the table
12. System displays waiter's menu

why pro-
cessed?

2 Extensions

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3 Alternatives

2a Waiter cancels selected option

2b System displays waiter's menu

3a The number informed is invalid

3a System informs that the number of the table informed is invalid

3a System displays waiter's menu

4a System verifies that there is no order for the informed table

4b System informs error accordingly

4c Continues at Step 2

6a Waiter cancels selected option

6b Continues at Step 2

7a1 Waiter does not confirm service tax

7a2 System sets tax service to zero and updates the total value of the order, displaying the new value

7a3 Continues at Step 8

7b1 Waiter cancels selected option

7b2 Continues at Step 2

9a Waiter does not confirm order payment

9b System displays waiter's menu