Requirements

1. Introduction
   1. The Restaurant Management Application (henceforth called the system) is a software application to assist in the management of 9bis restaurant.
   2. The restaurant is currently experiencing the following difficulties:
      1. Receiving the orders by phone consumes too much resources
      2. Some of the customers do not arrive to eat, which causes expenses since the raw materials are purchase in advance according to the orders plan for the day.
2. Overall Description
   1. The system will enable to create an order by providing personal details, the details of the order and payment details.
   2. The will enable to modify or cancel the orders.
   3. The system will enable the HR departments of the corporations to update the list of their employees (henceforth corporate customers), for whom the corporations will be charged.
   4. The system will confirm the orders using e-mail.
   5. The system will generate reports with summary of the orders and send it to the corporations.
   6. The system will assist the host to find a table for customers, who made an order and for accidental customers, taking into consideration the existing orders, available tables, amount of raw material.
   7. The system will enable the host to enter the name of the customer.
   8. The system will generate and send monthly reports to the restaurant owner.
   9. The system will support VIP customers that are able to invite additional diners.
3. Functional Requirements
   1. Booking a reservation
      1. The system shall provide a mobile application with a user interface to book a reservation.
      2. The application shall request the following details to book a reservation:

* First name;
* Last name;
* E-mail address;
* Employing Company (optional);
* Order type (seating / take-away);
  + 1. If the user selected order type “take-away”, the application shall request
* Address
* Date / Date range
* Payment method (Cash / Credit Card number)
  + 1. If the user is in the VIP list, the system shall provide an option to make reservations for more than one customer.
    2. The application shall update the database with the user details, as specified in 3.1.2 – 3.1.3
    3. If the payment method is Credit, the system shall authenticate the user’s credit
    4. If authenticated correctly, the system shall charge the credit card by the price of the order.
    5. If the user specifies the Employing Company, the system shall validate the user details with the list provided by HR of the company (see 3.3.1).
    6. If the user specifies the Employing Company and the validation was successful, the system shall charge the employing company.
    7. The system shall confirm the order by sending an e-mail to e-mail address, entered by the user in 3.1.2, with all the details of the order, including Order ID.
    8. In case the order was unsuccessful, the application will indicate the reason of failure to the user.
  1. Modifying the reservation
     1. The system shall request Order ID.
     2. The system shall validate the Order ID with existing orders that have not been delivered.
     3. If the Order ID is validated successfully, the system shall allow to modify the existing order according to 3.1.
  2. Interface with Employing Companies
     1. The system shall enable the HR of the selected companies to update the list of the employees.
  3. Reports
     1. The system shall enable to generate the following reports:
        1. The reservations for a selected date (reservation ID, name of the customer, reservation type, Employing Company if applicable).
        2. At the end of each day the system shall generate a reservation report for each employing company with the format, specified in 3.4.1.1.
        3. At the end of each month the system shall generate the following reports:
           1. A report that classifies all the reservations according to the employee company (including private customers)
           2. A report of customers, who made a reservation, but did not arrive.

If in the report there are employees of Employing Companies, the system shall send the report to each company.

* 1. Waiter
     1. The system shall display in graphic format a report of the reservations of the day.
     2. The system shall display the seats that are currently vacant.
     3. The system shall allow the waiter to make the reservations on behalf of walk-in customers.
     4. The system shall allow the waiter to specify that the customer, who made a reservation has arrived.
  2. System management
     1. The system shall allow the system manager to enter the details of VIP customers.
     2. The system shall allow the manager to view selected reports (see 3.4).
     3. The system shall allow the manager to change parameters of the system.

1. Non-Functional Requirements
   1. Performance
      1. The response time of the system will no longer than 5 seconds.
      2. The time for generation of the report shall not exceed 2 minutes
   2. Operation System
      1. The system shall run on Android
2. Future requirements
   1. The system shall run on IOS, Windows 7, MAC and Linux