# RESTAURANT AUTOMATION SOFTWARE

# PROJECT PROPOSAL

## *Project scope*

We, as TusubasaSoft, will study on and find a solution for the Restaurant Automation Software which is mainly composed of the following parts:

> ➢ Stock management
> ➢ Online ordering via network enabled handheld computers
> ➢ Online reservation and order management over the Internet
> ➢ Customer management
> ➢ Accounting system
> ➢ Executive information system

Below, we will explain the details of each part and construct our project based on these specifications.

> ➢ *Stock management*

Stock management is the information on the management of stocks of goods and raw materials used in the production of a good or service. In our case the stock management is the management of the main ingredients which are required for the restaurant's meals; all drinks to be serviced; additional goods required in a restaurant such as knife, spoon, table napkin, etc.

Possible functions provided by this system will be shipment and good receipt tracking which means keeping the information of all incoming goods, meals and related documents in the database.

➢ *Online ordering via network enabled handheld computers*

With the help of palm operated handhelds, orders of the customer in the restaurant will directly be transferred to the block where the meals are prepared. Reducing the chaos in the restaurant, easy communication among the personnel and increasing service efficiency are the qualifications of this system which makes our automation much more powerful and practical for all users of the application.

There will be a simple user interface providing the personnel the ability to select the necessary options and to insert the data according to the order of the customer on the screen of the handheld. This user interface belongs to the program embedded inside the handheld that communicates with the main computer.

➢ *Online reservation and order management over the Internet*

This system provides solution not only for the custumers in the restaurant but also for the customers sitting on their chair and searching in the internet for a delicious meal. By using the web site constructed by this automation, customers will have easy access to any facilities provided by the restaurant. In order to use this web site, each customer has to have an account. This account will not only provide online ordering but also be used by the users to keep track of all promotions, special announcements prepared for stable customers (for detailed information please visit the customer management part).

➢ *Customer management*

Main concern of customer management system is customer related data. This data consists of individual information such as name, address, telephone etc, customer's order related information like monthly ordering amount and possible promotions for each customer having an account.

➢ *Accounting system*

According to what we have understood from this part of the application, we decided to devide accounting system into four main parts:

1. accounts receivable:

We can describe this fuctionality as keeping and controlling the income of the restaurant in the database. As easily understood, income is directly related to the order prices and amounts.

2. accounts payable:

It is the accounts of all outcomes such as cost of ingredient, monthly salaries of the personnel, bills etc.

3. cost accounting:

This is basically used for determining and keeping the cost for one portion of each meal and the drinks.

4. fixed assets accounting:

This means keeping all of the asset information such as the number of chairs and tables etc.

> *Executive information system*

An executive information system mainly deals with displaying all kinds of required graphical inference by using the data kept in all other systems described above. This system is used by the manager as a guide during the management business.

## *Harware and software requirements*

- A number of handhelds which will be provided by the department later
- The main computer interacting with the handhelds
- .Net platform is intented to be used (ASP for web design,C++ for the rest)
- Oracle version ???? for the database applications

## *Project members and currently assigned roles*

Our project group is composed of four members: Ahmet KARACA, Gökçen ALAY, Hatice YENAL, Nazmiye ÇINAR.

Although the roles are not given strictly, main distribution is as follows:

- *Ahmet KARACA*: He is responsible for the research on handhelds and their interaction with the main computer.
- *Gökçen ALAY*: She is the current leader of the group and also responsible for the research on online reservation and order management over the Internet and customer management.
- *Hatice YENAL*: One of her duty is controlling the format of the documents. Her second duty is searching on stock management and accounting system.
- *Nazmiye ÇINAR*: She is responsible for searching on what should be included in an executive information system and existing examples.

This duty distribution is just for the research to be done before analysis. If any change or decision is required, it will be reported to the assitant.

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