Fine Dining – QR Menu

Minor Project

IBM Career Education

Disclaimer

This Software Requirements Specification document is a guideline. The document details all the high level requirements. The document also describes the broad scope of the project. While developing the solution if the developer has a valid point to add more details being within the scope specified then it can be accommodated after consultation with IBM designated Mentor.

INTRODUCTION

The purpose of this document is to define scope and requirements of a Fine Dinning Restaurant who is experimenting with QR based guest engagement. Their endeavor has been to enable guests in making choices of what they would like to order. With lot of foreign nationals frequenting the place, the new QR based menu items made the selection easy and guests appreciated the dishes that were served as per the expectations.

As a first step to the QR Style engagement, a QR Code based menu was introduced. While browsing the menu sections like the starters, main course and the dessert, the guests can point their smart phone to the corresponding QR Code to view the ingredients, calorie count, allergy warning and the about the Chef who introduced this dish in context of the type of cuisine. The guest can also go ahead and watch an online recipe of the item.

This document is the primary input to the development team to architect a solution for this project.

System Users

The Chefs and the guests will primarily use the QRMenu system.

Assumptions

1. The current interaction is limited to obtaining details about the items on menu in a rich text format and videos.
2. The Chefs will enter the entire data for each menu item excluding the beverages in the system.
3. For the purpose of the project, upload videos on youtube.com for testing.

REQUIREMENTS

QRmenu will maintain an online list of the menu items along with the details of every menu item for the guests. It will also generate a QR Code label for each menu item that will be given out for printing of menu cards. The QR Code will be pasted next to the menu item for the convenience of scanning by visitor. This activity will take place as and when a new menu is created or any new item is introduced or a particular item is removed from the menu. In case of removal, the QR code will also be deactivated.

Basic System Operation

The basic operation of the system is outlined below.

1. Chefs will be able to enter the information about each menu item in to the QRMenu system. This information will include unique (item id), Section Name (Entrée, Main Course, Dessert), the name of dish. The details such as the ingredients, calorie count, allergy warning and about the Chef who

introduced this dish, type of cuisine will be captured in a rich text field. The saved details will become available for viewing through a unique URL for that artifact. The URI for the same can be the item id.

2. The recipe video if any will be uploaded on youtube.com account of the restaurant. The URL for each menu item shall be saved as Recipe Link in the database along with menu item data.
3. Chefs at the restaurant will be able to generate QR Code for any saved artifact for printing. The QR Code will contain the URL pointing to the details of the artifact.
4. A simple list view of all the menu items will be available to the Chefs. Clicking on a menu item will open the details of the same. At this stage, user will have an option to edit the details or take a QR Code label printout.
5. The visitor will automatically be able to access the details of a menu item or view the recipe on scanning its QR Code label.

About QR Code

Quick Response Code or QR Code can be considered as a 2-dimensional bar code. It was invented in Japan by the Toyota subsidiary Denso Wave in 1994 to track vehicles during the manufacturing process. Here is a sample QR Code that points will read “Hello world” on scanning by a QR Code reader:

More details about QR Code can be found at http://www.denso-wave.com/qrcode/index-e.html and http://en.wikipedia.org/wiki/QR_code URLs.

DEVELOPMENT ENVIRONMENT

IM will be developed as a web application using Java/JSP and DB2 database. Eclipse will be used as the IDE for the same. For QR Code, Google Chart API may be used. The details of the same are available at https://developers.google.com/chart/ URL. However, students are free to use any other tool (that can be integrated with the QRMenu system) for QR Code generation.