

# Product Development

## Restaurant Information System

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- **Project Overview and Objectives:**

To develop an integrated software system to run in hybrid platform consisting of front-end applications that will be designed and developed to run in three different devices and the server applications. The front-end applications will communicate to the server applications through wireless network protocol. The systems will be used particularly for restaurant operations.

- **The Front-end systems**

The front-end systems will run on three different devices

- **Handheld Ordering Terminal System**

A mobile application designed to run in Pocket PC Device. The systems were designed to be used by restaurant the staff. It will have features that will depict the arrangement of tables in the restaurant to handle table assignment and provides the status of each table. The system also provides features that store the available menus and record orders of the guests and directly interfaces with the kitchen printers and the check out point of the system for billing.

- **Self-Ordering Terminal System**

A system designed to run in Tablet PC device. The system will be used by the staff of the restaurant and will be made available to the guests of the restaurant. It has all the facilities available in the Handheld Ordering Terminal the difference is that the ordering system provides a graphical representation of the menus available to the restaurant. The system also directly interfaces with the other front-end systems and the kitchen printers.

- **Fixed-Ordering Terminal System**

This system will serve as the check out point of the system and designed to run in POS device. The system integrates with the other components of the system and automatically updated with real time data.

- **The Server System**

The server system is composed of back office applications that will maintain all reference and master files. This back office system will be responsible in sending out the data to the front-end applications through wireless communication protocol. The front-end application in turn will be responsible in sending real time transaction data.

- **The Challenges:**

- Extensive research and development to develop custom controls for the front-end applications
- Real time data integration of the different devices as well as the server applications
- The target timeframe for the initial released is three-months
- There will be two development team from two different companies that will work collaboratively to develop the project
- The system should support multi-language requirements

- **Technology**

<b>Operating Systems</b>	<ul style="list-style-type: none"> <li>▪ Mobile Application – Windows CE</li> <li>▪ POS and Tablet PC – Windows XP</li> <li>▪ Server Application – Unix</li> </ul>
<b>Database</b>	<ul style="list-style-type: none"> <li>▪ Mobile Application – MS SQL CE</li> <li>▪ POS and Tablet PC - Firebird</li> <li>▪ Server Application - PostgreSQL</li> </ul>
<b>Development Environment</b>	<ul style="list-style-type: none"> <li>▪ Microsoft .Net (C# Language)</li> <li>▪ C++</li> </ul>