

PDA based Census System

Case Study

JVs and Branches:
India, United Kingdom,
Australia, Bahrain,
Japan, Singapore

About the Customer

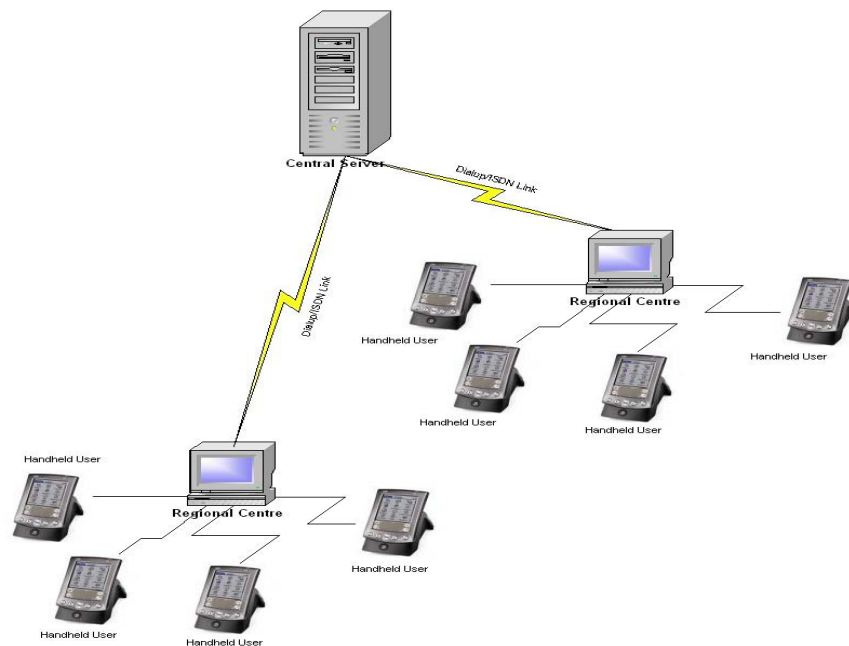
The ministry (in middle east) of national economy had decided to computerize the census process.

Project Description

The ministry of national economy had decided to computerize the census process. The census documents used to be hand written, which was tough to query and correct. The same process was decided to be handled by an application that runs on a palm device. The representatives could easily note down details and synchronize the data to a central server.

The Census System comprises of three distinct sections. The portable device or Palm is used to collect Census Data from each house and the data is synchronized to the desktop server. At the end of the day the data in the desktop server is uploaded to the Central Server via Dial up/ISDN line.

The Solution Architecture



Technology Used

Technology

- VB, COM (Using VB 6.0)
- Oracle 8
- Crystal Enterprise 8.0
- Crystal Reports 8.5

Platform

- Windows 2000 (Server)
- Palm (M100)

Application Flow at the Palm side

Basically the application works in two languages, Arabic and English and the functionality remains the same. The application at the palm side can be divided into two stages i.e.

- Data Collection Stage
- Data Sync Stage

Data Collection Stage

This is the most important and prominent stage. An authorized person with the application installed on the handheld device goes to the allotted field for data collection. The field user is dedicated to collect information for a specified number of houses

Data Syncing Stage

This stage of the application comes at the end of the day wherein the palm user goes to the server and syncs the collected data into the Server database.

As and when the data is being collected at the Palm, a certain set of business rules are being performed on the input data that ensures validity of the data