

Convergent Technologies

Recent Government Projects

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Crime and Criminal Information System

National Crime Research Bureau, India

Problem Definition

CCIS version 2k.1 is a Windows based application that stores records related to crimes and criminals, and lost and recovered property. The application resides at the NCRB office in New Delhi, and runs in district headquarters across the country. Records fed in at the district level are periodically thresholded at the center through the Offline/ Online system of data transfer, in the absence of an active online system.

The Integrated Information Forms serve as the backbone of the application, which link 140 tables, 120 forms and 160 parameters related to crimes, criminals and property. CCIS 2k.1 is potentially the largest police application in the world.

Today, CCIS is in the process of standardizing the way criminal records are maintained across the country, allowing efficient sharing of information and facilitating greater coordination at a national level. The application is partially available on a nationwide network today, and provides access to more than 5,300,000 records that are centrally located at NCRB. Owing to the Windows 2000 platform, currently CCIS also provides support for Hindi, which NCRB plans to extend to other regional languages in a phased manner.

Solution Framework

NCRB wanted to put in place a system that would allow access to and the sharing of hundreds of thousands of crime records created over decades, which existed in databases of police districts across the country.

The system consisted of around 12 modules for data entry of various criminal records at three different levels i.e. local, state and national levels. The application is capable of exporting and importing data amongst the various levels as and when required. It also generates 65 kind of reports based on the user requirements given by NCRB. It also gives various search facilities and matching facilities of finger prints from the archives.

The developed system allows efficient sharing of information and facilitates greater coordination at a national level. This system has provided efficient archiving of criminal records and greatly increased the retrieval of records for efficient action by the sleuths.

Technology Framework

- Microsoft Windows 2000 Advanced Server
- Microsoft SQL Server 7 Enterprise
- Microsoft Visual Basic 6.0
- Microsoft Back Office Server
- Microsoft Exchange

Online Status Tracking and Directory Services

Bharat Sanchar Nigam Limited, India

Problem Definition

BSNL Gurgaon is the biggest Telecom District in India. Gurgaon Telecom looks after the operations, maintenance and development of Telecom services of the Gurgaon Revenue District. BSNL Gurgaon has a large base of customers. The number of telephone connections has almost DOUBLED in the last two years, whereas it has gone up THREE TIMES in the Gurgaon Rural Area in the last two years. The number of their customers has drastically increased and it was difficult for them to process frequent requests of their customers.

Solution Framework

Convergent Technologies developed a Customer Relationship Management system for BSNL Gurgaon. The system is a Web based interface offering to its customers an Information Portal about customer-centric services like Waiting List; Status of services asked for; Customer Service Center Locators; regular updates on Services offered, Commercial, Billing and Tariffs by BSNL; and most importantly, it offers its customers the facility to find out the status of their outstanding monthly telephone bills through the internet.

Technologies used:

Java Server Pages and Oracle 9i

Check: <http://www.bsnlgurgaon.com>

Write to us for a detailed document on [bsnlgurgaon.com](http://www.bsnlgurgaon.com)

National Train Enquiry System

Center for Railway Information System, India

Problem Definition

National Train Enquiry System is a reliable centralized information system, which provides Up-to-date and accurate information to the passengers regarding:-

- Arrival/Departure of passenger trains including Expected time of arrival (ETA) of trains.
- Platform berthing of passenger trains
- Journey Planning
- Facilities available at stations
- Railway Rules

The railway inquiry system was available to the user through Display Boards, Interactive Voice Response System, Public Address System, Face-to-Face Enquiry, CCTV. The technology boom has highlighted the problem area for the train inquiry system- the web interface. The need was to build a web interface which takes care of all the online train inquiry.

Solution Framework

CT has web enabled the Train Enquiry System to provide quick and accurate information to the end user. The Online query system is built using Microsoft .Net framework and SQL Server as the database.

Key Features

- NTES Database Replicated from Real-time Database
- Original Time-table
- Running Status of Trains (trains running on/behind schedule)
- Expected Arrival of all trains at a station during the selected timeframe
- Expected Departure of all trains at a station during the selected timeframe
- List of all trains running between the selected source and destination stations
- Interlinking between Modules

External Links

- NTES Database à Uses Application Triggers to replicate the data from the Central Database at CRIS for Real-time Information
- PNR Status/Availability/Fares Links to www.indianrailways.gov.in

Technology Framework

- Microsoft .Net Framework
- NTES User Interface: C#, ASP.net
- Web Server: IIS 5.0
- Database Server: MS SQL Server 2000
- Replication Application: C#

check: <http://www.trainenquiry.com>

Write to us for a detailed document on NTES Project.

Vehicle Tracking System

Maruti Udyog Limited, India

Convergent Technologies is developing a Vehicle Tracking System for Maruti Udyog Limited, India that keeps track of each vehicle on each sub station of the assembly line. It also helps Maruti in making available the raw materials and other peripherals before the vehicles arrival on a sub station.

This project is in progress, therefore, the details of this project would be provided after it is successfully completed.

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