I-Pad/Tablet/ Mobile based MIS reporting system for NHAI

Business Context

The National Highways Authority of India (NHAI) was constituted by an Act of Parliament, the National Highways Authority of India Act, 1988. It is responsible for the development, maintenance and management of National Highways entrusted to it and for matters connected or incidental thereto.

For monitoring of the road projects, project management and other related functions, NHAI has envisage deployment of a software solution using I-pad/ tablet/ Mobile phones such that requisite information / photos / videos from work site can be captured and populated in the centralized system as well as the existing RIS/CPIS software. The MIS reporting solution envisages a centralized computer/ server system, which is capable to be used for collection of various data from field units (PIUs) either through the use of web application or using the medium of mobile SMS/GPRS/ 3G.
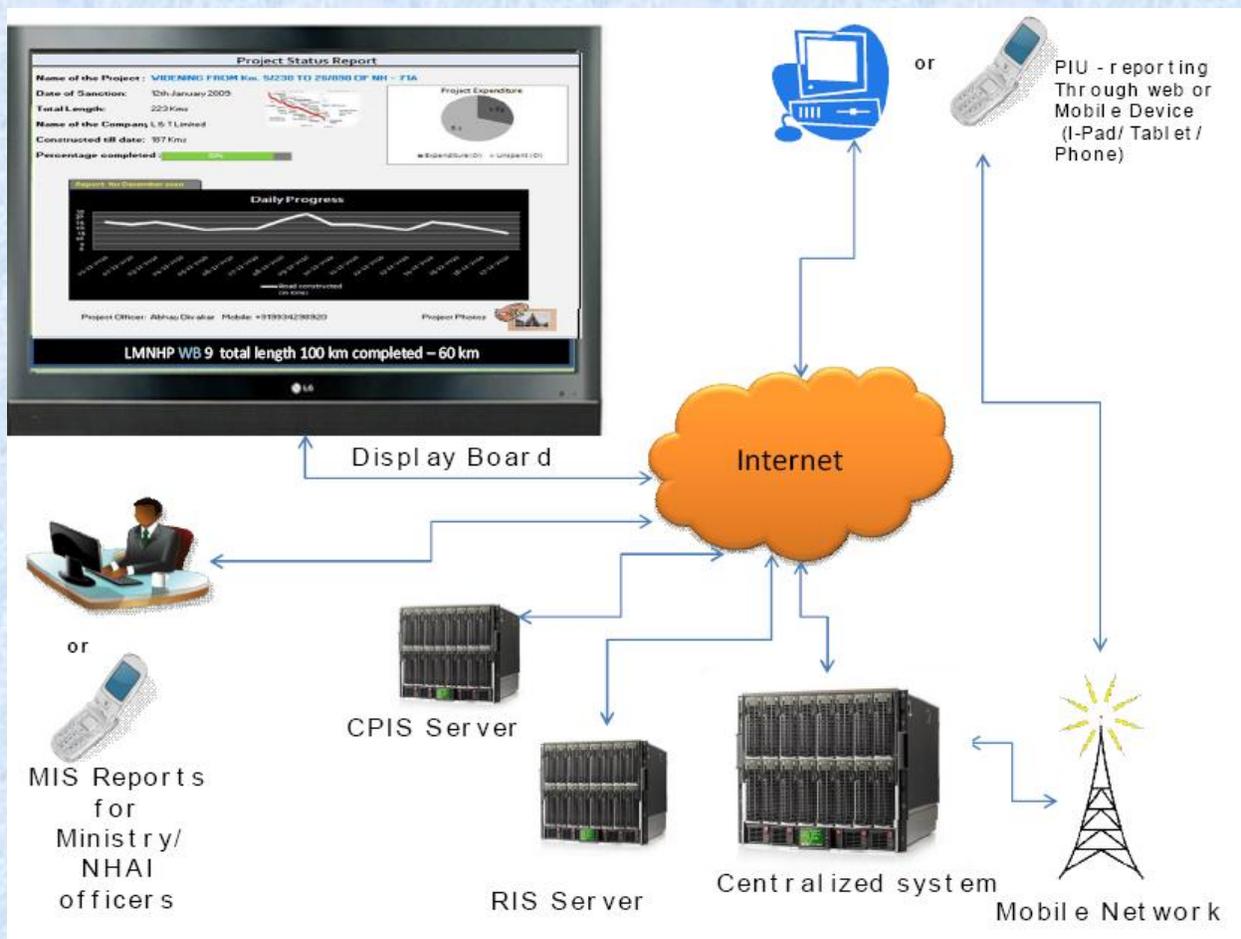
Solution

- The application is capable of generating the compiled MIS reports with detailed analytics.

- It provides Analytical Dashboards with various types of graphs, charts & diagrams from the real time data, display of vital information in the form of Tickers on the portal for top management.

- Senior officers' can view summary daily/ weekly/ monthly reports, State-wise/ Project-wise/ PIU-wise reports etc. on their desktop or mobile phone.

- The application has protection mechanism for preventing unauthorized use in cases of phone theft/ lost.
- Supports automated escalation mechanism
- A Centralized system setup to be used for collection of various data from field units through the medium of I-PAD/ TABLET/ MOBILE SMS/GPRS.
- It ensures generation of compiled MIS reports with detailed analytics, Mass SMS broadcasting, citizen query response system etc.

Solution Architecture

Benefits

- Real time monitoring of progress and quality of work
- Control false and suspicious reporting and promote transparency
- Compatibility with smart phones
- Facilitate geotagging
- Standard reporting system

Challenges

- Data collection from third party database
- Develop a common platform for all operating systems

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