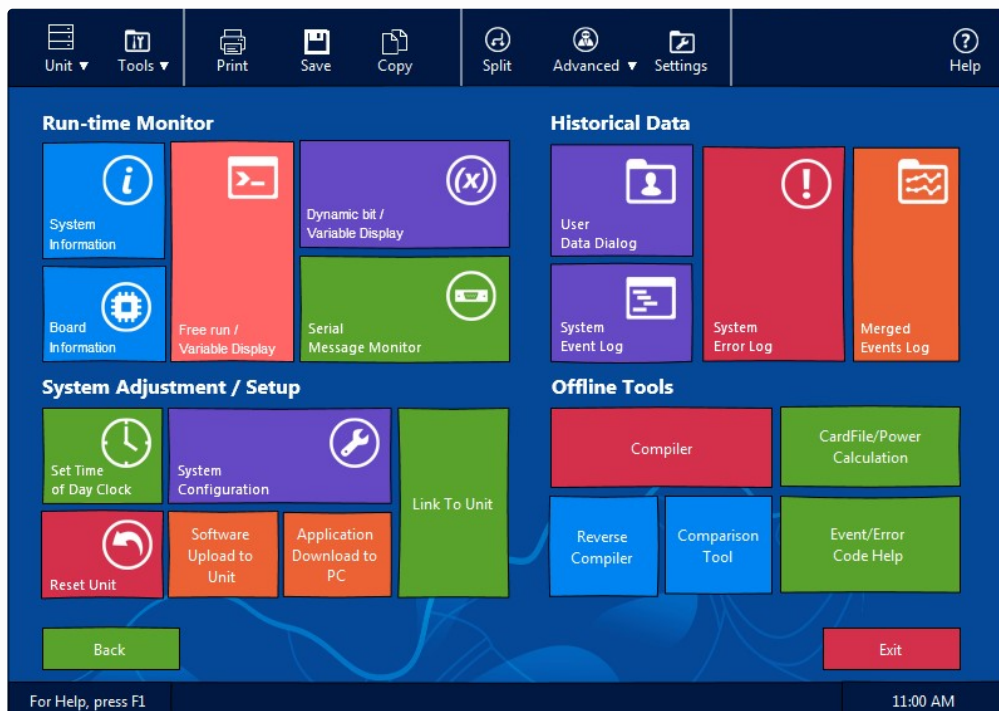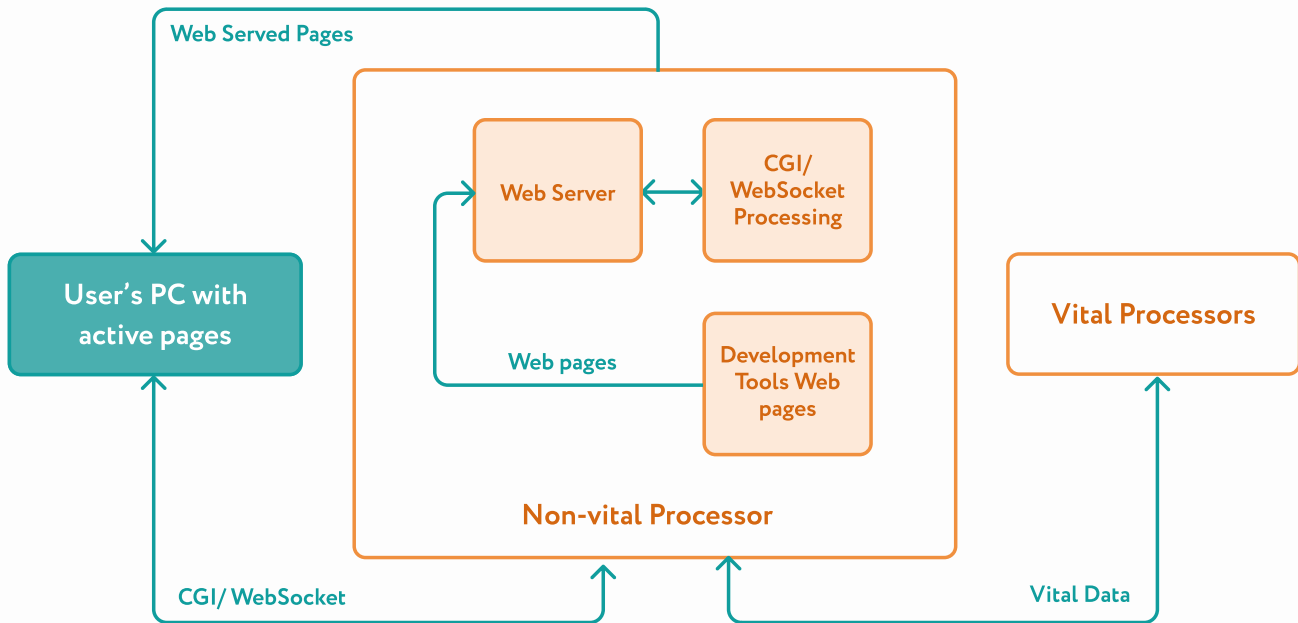# MANAGEMENT APP FOR WAYSIDE CONTROLLERS

Datasheet

Project objective

Develop a replacement system software application for comprehensive monitoring and management of computer-based interlocking control systems and rail mass transit wayside interlocking equipment with the opportunity for hassle-free addition of new equipment.

Result

The developed app with web access provides smooth and reliable monitoring and management of interlocking control systems. It contains a set of tools required for field installation of the equipment, system configuration, monitoring, maintenance, and troubleshooting. It reveals an error-free environment for creating interlocking application files under Signal Design Quality Procedures and its uploading to wayside controllers. The solution can be kept up-to-date with the latest needs of the railway industry by adding support for the new boards.

Scope of work

◈ Deep-dive discovery sessions onsite to explore the wayside products' features

◈ Design & development given online monitoring and enhanced functionality

◈ Providing the ability to monitor connection, operating state, and historical data

◈ Ensuring the opportunity to configure interlocking applications' parameters, and communication links to create and upload interlocking application logic. Power consumption calculation

◈ Porting source code to the Windows platform

◈ Creation of compiler and reverse compiler for the specific board

◈ Addition of support for the new equipment

Activities

◈ Onsite requirements definition & enhancement

◈ GUI design & improvements

◈ Software development

◈ Functional Testing & Bug fixing

◈ Software porting

◈ Support for the new board

About the project

Technologies

◈ C++

◈ Visual Basic

◈ Java

◈ JavaScript

◈ HTML5

◈ CSS

◈ XML

◈ CGI

◈ SVN

Platforms

◈ Linux

◈ Windows

Project size

◈ 6 Senior SW Engineers

◈ 2 SW Engineers

◈   4 Senior QA Engineers

◈ 1 QA Engineer

◈ 1 Graphics Designer

Duration

4.5 years