

WEB BASED MACHINE STATUS DISPLAY FOR THE SIAM PHOTON SOURCE

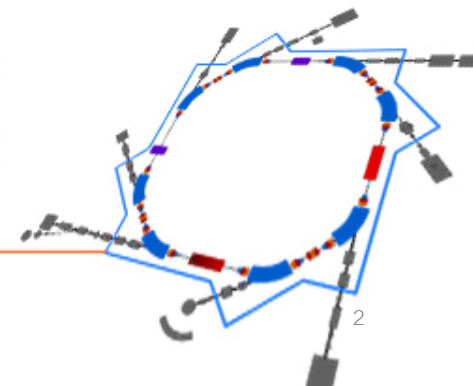
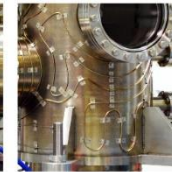
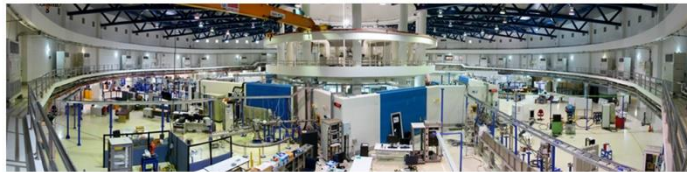
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PCaPAC 2014, Karlsruhe, Germany
October 17, 2014



Introduction to Siam Photon Source (SPS)

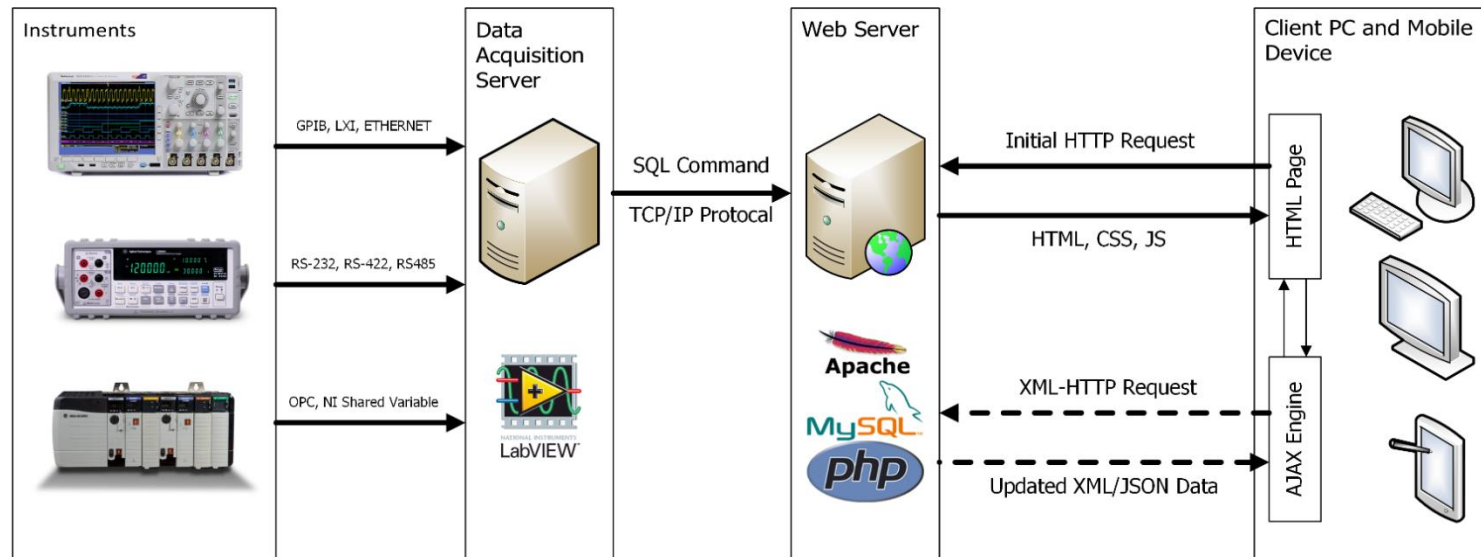
- Synchrotron Light Research Institute (SLRI) is located in the campus of Suranaree University of Technology, in Nakhon Ratchasima (Korat), Thailand
- The SPS electron beam energy is 1.2 GeV, and the electron current injected for each operation cycle (filling) is 150 mA
- The SPS storage ring circumference is 81.3 meter containing 4 superperiods, Double Bend Acromat (DBA) lattice, 8 bending magnets





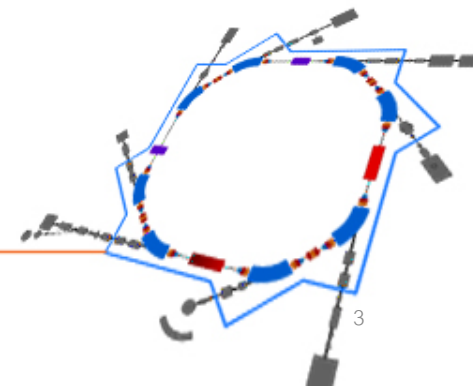
Web Based Machine Status

SOFTWARE ARCHITECTURE



DESIGN & CODING

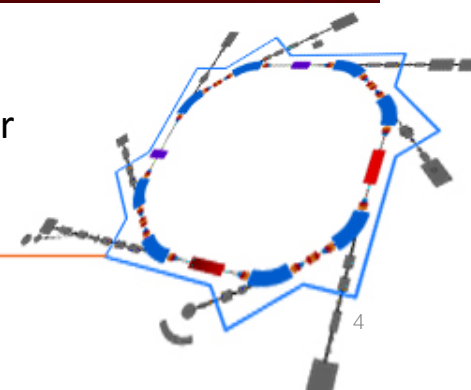
- Frontend framework with Bootstrap
- Asynchronous communication with AJAX
- Real-time graph with Highcharts JS
- Notification broadcasting with Twitter



Web Based Machine Status



- SPS machine status on mobile device
- The machine status web page on desktop browser
- <http://accelerator.slri.or.th/machine-status/>





Thank you for your attention



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