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Web based Event Display server for MPD/NICA experiment

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There are different methods for monitoring engineering, network, and computer systems for high-energy physics experiments. As a rule, they have a common name - Event Display and include a whole range of monitoring and control systems. During the experiment, the facility operator should receive comprehensive information about detector performance in a well understandable and intuitive form to make required changes in the data collection process. In this paper, the possibility of the development of the Event Display based on a high-level programming language - JavaScript, built into any standard Internet browser was investigated. The Web application development was done using NodeJS as a back-end development platform, WebGL for 3D rendering and modern framework React. The work was carried out within the frame of the MPD (Multi-Purpose Detector) detector under construction of the NICA (Nuclotron-based Ion Collider fAcility) collider at the Joint Institute for Nuclear Research (JINR, Dubna, Russia).

Summary

Primary authors: KRYLOV, Alexander; ROGACHEVSKIY, Oleg (JINR); KRYLOV, Viktor (Joint Institute for Nuclear Research (JINR))

Presenter: KRYLOV, Alexander

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