Sample Project: Web and SW Developer in Video Technologies

Code	IT1926
Programme	TRAIN-PTES
Department	IT
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Title

Web and SW Developer in Video Technologies

Description

The CERN Videoconferencing (VC)Team is responsible for the management and operation of a large and massively distributed service infrastructure based on the Vidyo product serving the LHC worldwide dispersed community with more than 3000 videoconferencing connections per month, more than 18000 registered users and 40000 client downloads reflecting a monthly average usage of 4 million minutes of Videoconferencing. It is also responsible for the design support and management of the CERN Video and Teleconferencing infrastructure (near 100 on-site Videoconferencing venues). Due to the rapid growth and critical interest of the service, it is permanently evolving, providing grounds for new challenging projects. The applicant will be integrated in the CERN VC Team working in close collaboration with other international teams in other institutes and companies worldwide (Vidyo, Radvision, Fermilab, IN2P3, Desy...) and will be responsible for the development of all the monitoring tools, dashboards and indicators for the service, specifically monitoring tools for the CERN Vidyo Service, using Nagios and SNMP technologies, Google APIs for maps and charts to display real time data of the dispersed machines. The applicant will also be programming APIs to automate operations and infrastructure. She/He will collaborate closely with the internal CERN staff for the design, requirements assessment, prototyping and testing of the developed software and end user support. At a later stage, the applicant will also be involved in new trends for real-time communication, suchas WebRTC.

Skills

Databases: MySQL, Oracle. Information Technologies: Building web applications (e.g. with jQuery, HTML5), Developing with virtualised infrastructure (e.g. Openstack), Using software development tools (e.g. Git, Jira, Trac), Using web application frameworks (e.g. Django, GWT, APEX). Programming Languages: Python, SQL, PL/SQL or similar

Disciplines

Information Technologies

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