

QIN Center Server Project

Tradomedia Inc

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Company information

Tradomedia Inc, a new Ottawa technology start-up company incorporated in October 2008, is currently housed in the Innovation Center at the Communication Research Center (3701 Carling Avenue). The company is led and co-founded by Professor Yongyi Mao (from the University of Ottawa). The team of Tradomedia consists of PhDs and Masters in Electrical Engineering and Computer Science, Senior IT professionals, and Senior business-development personnel.

The company's web site is at www.tradomedia.com.

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Project Background

Tradomedia Inc is currently developing a video-on-demand service platform, named QIN, which integrates the latest technological breakthroughs in communications, networking and video coding with a creative business model. QIN promises to offer the highest possible video downloading rate and support highest possible video quality. In addition, the novel business model introduced in QIN is expected to re-define the service model of the entire content service industry.

On the technical side, QIN uses a hybrid of peer-to-peer and client-server protocol. As such, the platform consists of a Center Server (to be operated by Tradomedia or any third parties licensed by Tradomedia) and many Peer Servers (each installed on a user computer). The management and scheduling of user accesses are performed by the Center Server and the content data transport is performed by the Peer Servers (utilizing a state-of-the-art communication and coding technology developed by Tradomedia).

Currently the Center Server and the Peer Server are being developed in parallel, where the company welcomes more programmers to join the development of the Center Server.

Project Description and Required Skill Sets

Briefly, the QIN Center Server contains a web tier, a business logic tier, and a database. The server communicates with user's web browser via HTTP protocol to the Peer Servers using SOAP.

The Center Server Project for which Tradomedia is requiring additional development force beyond its key technical team is on the development of the web tier. The project includes developing and implementing various use case functionalities and user interfaces.

The required skill sets of the developers participating in the project include: Java (J2EE), JSP, Javascript and CSS.

Career Opportunity

Tradomedia is expecting to rapidly expand upon the completion of the project. As such, students participating in the project who demonstrate strong software skills may be potentially be offered employment

opportunities.