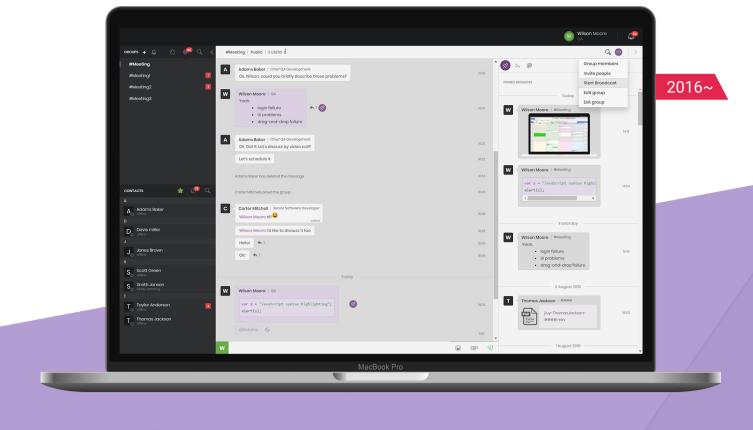
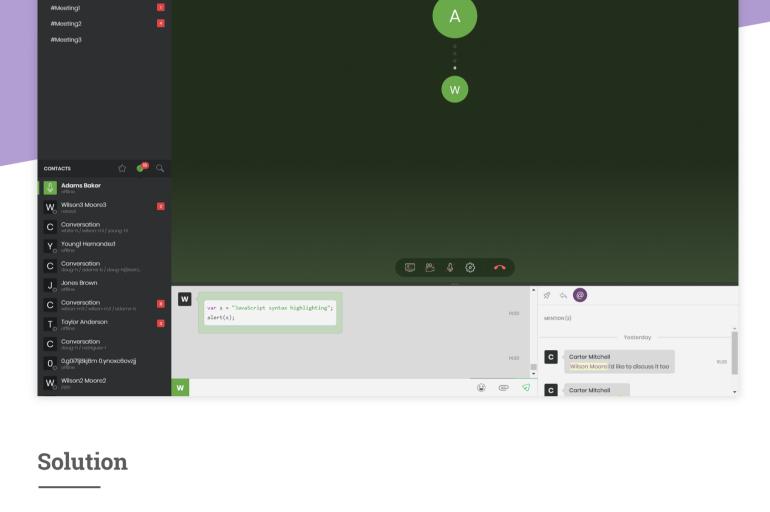


Stand-alone Peer-To-Peer Video Chat Application

A straightforward stand-alone peer-to-peer video chat application. It provides quick, convenient and highly secure video/audio and text messaging for peer-to-peer and group communication between the employees from the same company. Implementation of the peer-to-peer application allowed the client to use a wide variety of possibilities in communication, file sharing and can save time for additional steps and negotiations.



Business Challenge



development team represented by a business analyst, WebRTC and React developers as well as QA engineers was responsible for the creating the bug-free code of the web application.

To guarantee high security of inside communications via the application we applied WebRTC technology. WebRTC security is enabled by standardized encryption methods that have been proven to protect users from unwanted entrance into their private information. Its standards offer excellent protections in addition to the revolutionary streaming voice and video features that define the technology.

XB Software team was required to develop an efficient and stable corporate stand-alone peer-to-peer video application which should operate without the internet connection. The

CSS, which helped to create the user-friendly design and clear features of the application. The back-end of the app was made using Node.js and MySQL. Other technologies applied include Redux, Docker, Redis, NGINX. XB Software's developers created the peer-to-peer video application with the next features: persistent and fast connection/disconnection via video or audio, text messaging, group or private possibility of communication and the use of general alerts when an event of employ-

ee's interest happens. Users can share their images, documents using file sharing feature.

up to 5 users for a video/audio call. If a user wants to talk one to one to a person from the

video/audio calls allowed adding up to 3000 users to chat conversation (text messaging) and

conversation, he'll need to create a new one to one chat using search. Moreover, all the users have to be authenticated (AD/LDAP authentication) in the web application to be able to per-

Peer-to-peer communication and group chatting in a private chat were enabled. Private

The front-end of the peer-to-peer video chat application was implemented using React. JS and

form any operations. Users can share their screens during a video call. Moreover, a user can initiate a broadcasting for up to 100 users. #Meeting | Public | 3 USERS 1 Q 🐽 Carter Mitchell | Senior Software Developer Wilson Moore Hi!

INVITE TO GROUP Wilson Moore I'd like to discuss it too S Smith Jonson Ok! 4 1 J Jones Brown Thomas Jonas w Wilson Moore | QA alert(s);

 login failure C • drag-and-drop failure Carter Mitchell 0 0 88 **Estimated man-hours** Duration 6 000+ 1,5+ years

🖖 docker 🤗 redis NGIИХ

Wilson Moore

Musque Web RTC & Redux

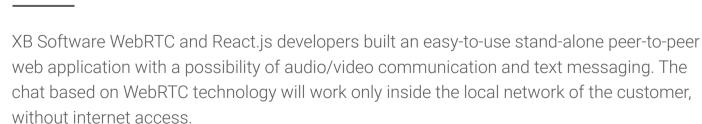
Applied Technologies

A W

С

w

Wilson Moore | QA



Our Role in Client's Success

 create private peer-to-peer text messaging and video/audio communication chat • create, edit or delete a group for text or video communication add users to the group

- write, share, search, resend, edit or delete their messages pin the main message mention the user in the message
- fileshare by intuitive drag-and-drop view the groups' notifications

The app has a simple login form and allows users to:

Moreover, the peer-to-peer video chat app has an intuitive and adaptive user interface with collapsible menu. The video chat app simplified the communication process between em-

able ways to learn.

share information with a group

ployees and made the interaction between different offices of the company easier and more fruitful.

Customer

A US-based education and publishing company that develops the most effective and afford-

info@xbsoftware.com

Thanks for watching!

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