Case Study

Design and development of DLNA based Content Streaming Application on iPhone framework
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Client

The client is a US based IT Projects Consultancy firm.

The Company

The US-based client of Elegant MicroWeb provides premium consultancy services in mobile technologies to its customers.

The Objective

The client required an application that streams various media contents from iPhone device to various DLNA certified devices through using Digital Live Network Alliance (DLNA) protocol.

The Solution

Elegant MicroWeb worked closely with the client, right from the conceptualization stage to feasibility study and Design & development of the app.

The application is created to transfer diverse media content from one device to another. The transfer is performed via the Digital Live Network Alliance (DLNA) protocol. The application transfers different Images and Audio & Video files to various DLNA certified devices such as PlayStation III (PS3), Xbox360, SONY Bravia, SAMSUNG LED TVs, XBMC and other DLNA Compatible Media Players.

Elegant MicroWeb developed the mobile application by using the UpNp (Universal Plug and Play Libraries) in DLNA wrapper. The iphone serves as a Media server for DLNA devices and detects other DLNA devices that are connected to the same Wi-Fi network. The application works as media server and other devices act as media renderer. The User selects the content from the list and streams it to other devices.
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The videos captured from iPhone has (.mov) file format that cannot be streamed directly on PlayStation III (PS3) due to compatibility issues. Elegant MicroWeb effectively handled this challenge by converting the video format (.mov) into compatible video format (.mp4) that can be streamed directly on PlayStation III (PS3) with the use of transcoding server. Elegant MicroWeb also designed a buffer technology and optimised XML for ultimate performance of transcoding server.

Major features:
- Transfer of Media Contents through DLNA protocol
- Media selected from one device streams on to other device
- Trans codes incompatible video file formats to .mp4 format and streams them
- iPhone acts as a content server and streams .m4a format files
- Compatible with Sony PlayStation III (PS3), Xbox360, SONY Bravia, SAMSUNG LED TVs, XBMC media renderers and other DLNA Compatible Media Players.

The Technology

Framework : iPhone framework
Other Tools : Objective C, DLNA, UpNp, C++, FFMPEG
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Elegant MicroWeb Role

Elegant MicroWeb was engaged with the client throughout the life cycle of Application Development which includes:

- Assessment of requirements and Feasibility study
- Planning and technical framework design
- Design and development
- Configuration of app on app store
- Each development phase is well documented.

Conclusion

Elegant MicroWeb successfully designed and deployed the DLNA based Content Streaming Mobile Application. They have successfully achieved ultimate performance of transcoding server and overcome challenges of compatibility across DLNA based devices. User Acceptance Testing was carried out by the client as well as Elegant MicroWeb. The wide ranging experience and technical expertise of Elegant MicroWeb team, along with its excellent customer coordination, resulted in the DLNA based Content Streaming Mobile Application being completed on time within budgeted costs.
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Contact Us

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