



VIDEO CONVERSION MOBILE APPLICATION ON ANDROID SMARTPHONES AND TABLETS

CLIENT OVERVIEW

Our client is a leading provider of media conversion services to share and convert videos and photos from videotapes to a digital format. Our client provides easy and inexpensive solutions wherein the converted media files are stored onto a DVD format and are also available online, to be accessible through a web application. Our client provides end-to-end solution right from receiving the tapes and photos to digitizing it and making it available for end use. The solution is based on best-of-class video engineering and automation technology for converting videos and photos into new, evolving digital formats. Our client's digital transfer services are used by leading retailers and companies such as Kodak, Sony, and over 1,000 other businesses across the US.

KEY REQUIREMENTS

- To ensure that the application can be easily modified to follow the standards of and incorporate the incremental features of new Android OS releases in different makes of tablets and smartphones.
- To provide the same user experience for video streaming as provided by the flash player in the web application.
- To provide support for different video formats like MPEG-TS, etc. supported on different Android versions.
- To provide support for different device form factors and screen densities available on 600+ devices available today.

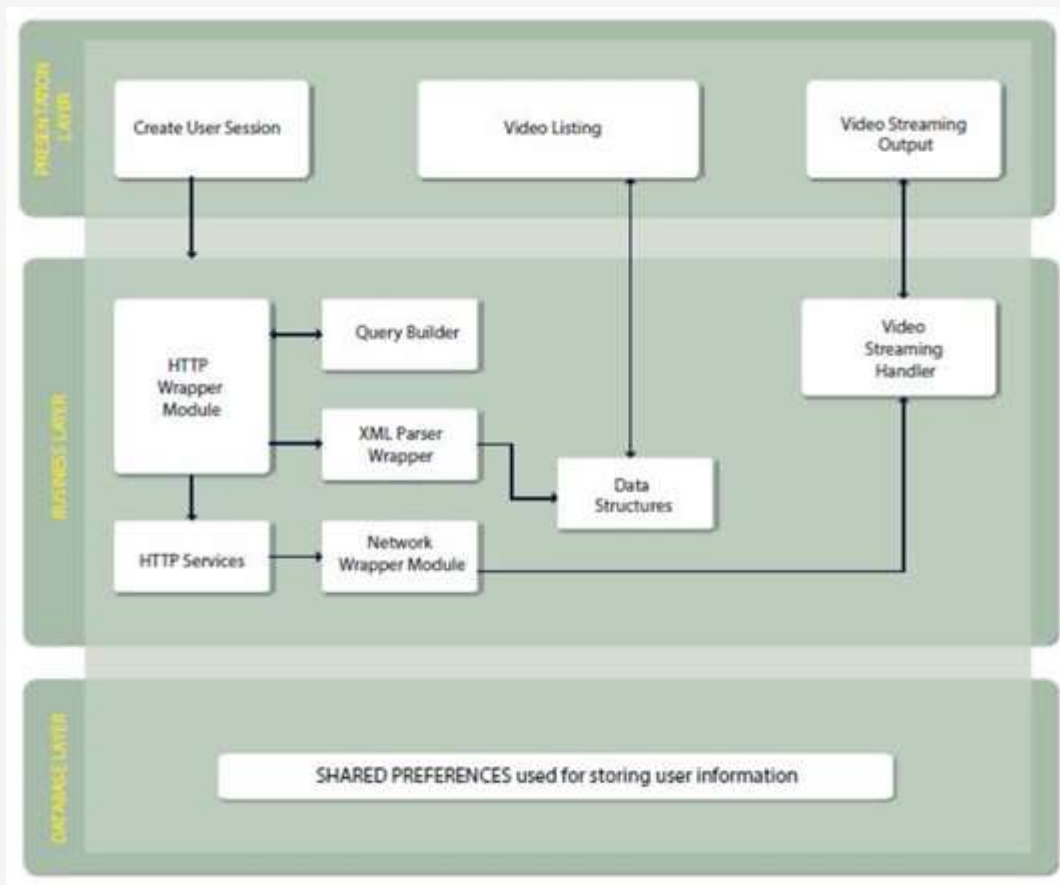
KEY CONTRIBUTIONS

- Used project library tools and implemented Wrapper modules to accelerate application development and to incorporate features of the current OS in the application while maintaining backward compatibility with lower OS version
- Performed an intensive research to select the best fit protocols for streaming videos for devices with different OS versions. RTSP was used for Android 2.3 and less while HLS was selected for higher versions, thus obtaining a high quality video streaming matching the standards of flash player streaming on the web application
- Developed different library tools to convert video from the existing MP4 format videos to different video formats supported by the Android OS versions
- Developed and implemented different resources with low, medium and high ranges of density pixel in the application to support varied form factors of different Android handsets

KEY BENEFITS

- Improved customer base by over 30% post launch of the mobile application on smartphones and tablets
- Achieved faster time to market which provided the client a first mover advantage by adhering to aggressive release schedules
- Achieved quicker product releases and lower costs by using Xoriant Mobile App Accelerator Framework
- Managed to release the application on more than 100 different smartphone devices almost simultaneously by adopting a modular approach and consistently using Xoriant's Mobile App Accelerator Framework

HIGH LEVEL ARCHITECTURE



TECHNOLOGY STACK

- Android SDK
- Emulator
- Eclipse
- Native Facebook and Twitter sharing API's



About Xoriant:

Xoriant Corporation is a Product Development, Engineering and Consulting Services Company, serving technology startups as well as mid-size to large corporations. We offer a flexible blend of onsite, offsite and offshore services from our eight global delivery centers with over 2000 software professionals. Xoriant has deep client relationships spanning over 25 years with various clients ranging from startups to Fortune 100 companies.