



Developing a platform independent application in Eclipse RCP (Rich Client Platform)

Industry:

Enterprise

The Client:

Our client is the global leader for encoding and compression applications, provides hardware and software solutions that enable users to easily and affordably compress, manage and deliver quality video over the Internet and to CDs, DVDs, mobile devices and other formats. The company also produces quality tools for publishing and managing user-generated content.

Business Objective:

Our client planned to develop and provide Media Manager Product to the end users. This software will provide ease of management of videos, audios and images. They planned to enter in the Media Management market with the product by utilizing their skill-set in video compression and encoding. Our Aim was to provide a platform independent client for managing various media like images and videos with rich User Interface. They were having base Java API ready for compression and conversion of media.

Solution:

To achieve the goal of a platform independent product, our team selected Java technology for its development. We have implemented effective offshore development for the product. Eclipse RCP (Rich Client Platform) was used for faster and rich user experience. Graphical Editing Framework (GEF) was used for graphical functionality. Agile methodology was followed for the execution.

The software mainly had three modes of operation. Asset manager mode, where the users could create, update, delete albums to store various assets like videos, audios and images. Mixer mode, where users could mix various assets with different functionalities like cropping, deleting, selecting, preview, mixing voice with video, viewing videos. Finally the publish mode where users could publish various media and mixes.

Challenge:

One of the major challenges was that product was evolving with the development so there were many frequent changes and modifications involved. Other challenge was management of huge amount of assets like videos, audios and images in album in software. There can be thousands of images in a single user album in software. Time and Performance tuning was again a major challenge. Rich User Interface was important requirement. We developed custom components with rich user experience at some places and used eclipse components to provide better user experience.

Technology:

- Java
- Eclipse RCP (Rich Client Platform)
- Graphical Editing Framework (GEF)

Benefits:

- **Resolved** various **performance issues** which was a major concern area for the client through various techniques which helped them a lot.
- During API updating at the customer end we concentrated on **developing alternative components** to enhance the user experience
- We developed **mock Java methods** to save delay in delivery to client which was appreciated by them.

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Case Study