



XORANT ON-DEMAND STORAGE CASE STUDY

CLIENT OVERVIEW

As a part of the current trend of cloud computing and software-as-a-service of the enterprise market, our client, a Silicon Valley based start-up founded in 2006, is providing on-demand storage and collaborative services with flexible, secure and limitless storage capabilities. Remote storage has become an inexpensive and on-demand solution for the small and home businesses. Our client's product delivers a comprehensive file server solution that combines unlimited, on-demand file storage and workgroup collaboration capabilities with an automated, online backup. This product works on both Windows and Mac platforms.

KEY REQUIREMENTS

- Providing rich user experience by leveraging some of the Web 3.0 features and the new APIs
- Incorporating high user and product level security into the product
- Providing users with a server sync feature to map files on their hard drive to the product
- Providing a failsafe environment thereby ensuring no downtime which was a critical requirement
- Ensuring exhaustive QA to enable product release with minimal errors
- Providing global support services to the client' end customers, in addition to infrastructure and operational support
- Ensuring dynamic storage provisions to enable adding/removing storage as per the requirement
- Ensuring the product compatibility with multiple OSes and browsers

KEY CONTRIBUTIONS

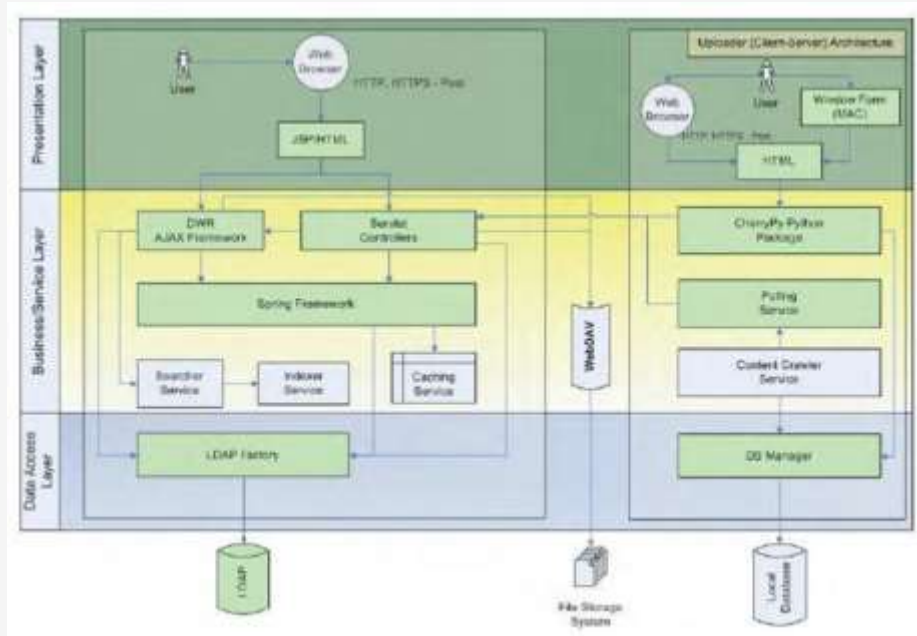
- Developed a full-fledged Web 2.0 based content management solution with some Web 3.0 based features which allow seamless desktop-web backups
- Implemented a robust and scalable UI using framework libraries like Backbone and Marionette
- Provided single sign on integration with Identity Provider using SAML 2.0
- Developed an Ajax-based site with webDAV for creating the file/folder structure that could be accessed over the web
- Provided built in access control for maintaining security for the users/groups
- Implemented prevention measures for web application security vulnerability like XSS, XSRF, SQL injection etc.
- Developed upload widget which could be embedded in custom applications thereby allowing ease of collaboration and use
- Provided support and maintenance for client's sync server which is entirely written using python's extension to file system event and python bindings to Casandra event monitoring system
- Developed automation framework for automating test cases, performed security & penetration testing exploring potential threats
- Support team formed for providing 24*7 customer support for all the client's global customers, uses Zendesk for knowledge management and as ticketing system
- Operational team also set up for deploying patches and for performing performance tuning and optimization

KEY BENEFITS

- Incorporating several user centric features and leveraging the new technology advancements enabled development of a feature rich and popular product
- 24x7 support operations enabled client to provide support to its global customers round the clock, improving customer satisfaction
- Automation reduced the test time by over 50% and also the errors in shipped product thereby providing client time to market advantage
- Infrastructure team helped client to make optimal infrastructure investment on need basis

- Provided high-availability clusters to deliver a fail-safe environment through redundancy and used open source tools like Haproxy, LVS, etc.

HIGH LEVEL ARCHITECTURE



TECHNOLOGY STACK

- Tomcat
- Apache
- Servlet Engine
- JSP
- Java
- Spring
- AJAX
- JSON CherryPy
- Django
- Python
- LDAP
- MySQL
- Nginx
- Haproxy
- (DWR framework)
- JavaScript
- jQuery
- Redis
- Memcache
- Lucene / Solr



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.