



DATABASE MANAGEMENT AND PERFORMANCE OPTIMIZATION OF AN ENTERPRISE COMMUNICATION

CLIENT OVERVIEW

Our client offers next generation communications platform for organizations to deliver smarter sales and marketing presentations and unparalleled connection to their customers and audience. Our client's platform allows its customers to create, distribute and track communication on their behalf at an affordable price and unmatched speed.

KEY REQUIREMENTS

- Develop a system which will archive the old user data and all associated records.
- Develop a user interface for admin to search and select one or multiple user for data archiving.
- Develop a reverse system where admin can revert the archived data from 'Archived Database' to 'Production Database'.
- Develop a platform where a user can create a presentation using Redactor.js(jQuery based WYSIWYG library).
- Convert all the existing Flash based presentation to Redactor.JS.
- Perform Ruby upgradation to x run time bugs, leverage additional features and enhance performance

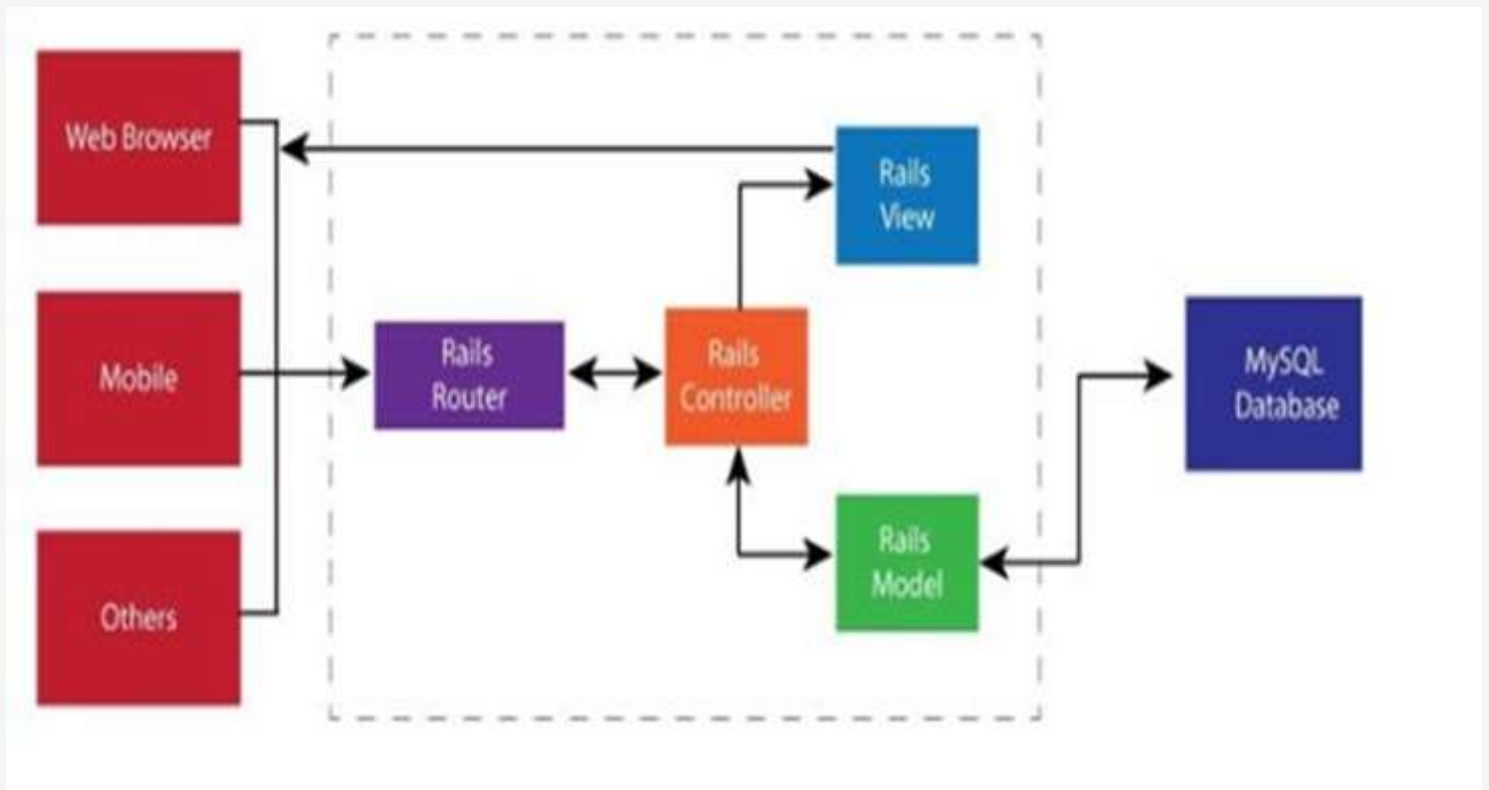
KEY CONTRIBUTIONS

- Built a solution to archive the old data of size approximately equal to 50GB, clean the database for fresh use and increase the requests turnaround time by using combination of Rails Active Record and raw SQL query.
- Achieved database cleaning, improved data integrity and decreased database redundancy by writing a script to archive the production record and shift data to archived database.
- Replaced Flash based editor and upgraded it with Redactor editor and made the earlier design compatible with the latest upgrade.
- Added a feature where a logged in user can export the list of guest users who are registered in a system using JavaScript.
- Added a feature which allowed admin to search and select one or multiple user for data archiving using JavaScript and Backbone.JS.
- Implemented functionality for sending an email using the Sendgrid with the correct header

KEY BENEFITS

- Archived old user data and its associated records that helped in managing huge database thus improving the overall performance of the system by 20-30%.
- Up-gradation to Redactor editor helped the client to provide a simple, clean, smooth and an immersive user experience in building the presentation / slides and this increased the usability of the platform by 50-60%.
- Ruby up-gradation helped the client to improve its web application performance by 30-40%.
- Reduced data archiving time by 60-70% by allowing admin to search and select one or

HIGH LEVEL ARCHITECTURE



TECHNOLOGY STACK

- Ruby – 1.8.7
- Ruby on Rails – 2.3.17
- JavaScript- jQuery, Redactor, BackboneJS, UnderScore
- MySQL
- GIT
- JIRA



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.