



# STREAMLINING HEALTHCARE PAPERWORK WITH IPAD APPLICATION

## CLIENT OVERVIEW

Our client is one of the leading healthcare software vendors, providing solutions for various administrative and other functions related to healthcare delivery. Our client provides end-to-end solutions to enhance the user's daily operations which are of core importance for big healthcare entities. Our client's healthcare solutions and various mobile workforce products cater to major healthcare entities like hospitals, big diagnostic centres and medical organizations globally.

## KEY REQUIREMENTS

- Digitization of administrative forms with seamless access from Smartphones/ Tablets
- Validation of data in terms of mapping the formats as well as content
- Design and implementation of templates, to be made available for a quick reference
- Implementation of a mechanism for:
  - Uploading and downloading the available forms from the server
  - Filling out instances of the forms to submit to the system or to a user
  - Receiving the forms for review from other users
- Implementation of offline support in the absence of network connectivity
- Integration with backend document management systems like SharePoint or TracX

## KEY CONTRIBUTIONS

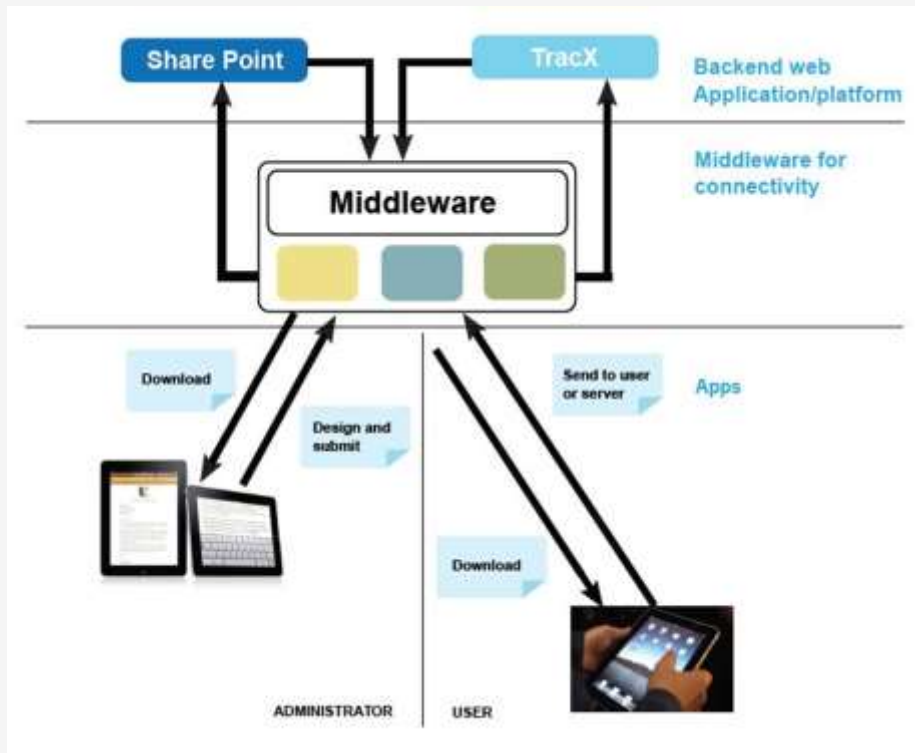
- Conceptualized, designed and developed a generic user defined component “FormBuilder” to convert the forms in physical formats to their digital format. This supported conversions to the different formats of pdf, jpg, etc. The component was designed to enable incorporating additional digital formats with minimal code changes, thus allowing easier enhancements
- Created template forms that can be liberally used to generate various kinds of digitized administrative forms
- Designed a solution for two types of audiences:
  - Admin: Someone who can design the forms that an organization uses
  - Users: Someone who can fill out published forms and submit them to the Server. The forms can either be submitted to a Server or to another User for review
- Implemented a time saving mechanism for the users by making use of the available templates rather than creating them from scratch, and developing instances of pre-filled data
- Developed a mechanism for uploading the files or documents to the centralized server with the help of Windows upload utility
- Created a mechanism for allowing users to submit forms internally for approvals and reviews. Alerts were made available to the approvers/reviewers where they can check and approve/review forms

## KEY BENEFITS

- The iPad application gave our client the first mover advantage, thus improving the user base by 20% within a quarter of its launch
- New form roll out cycle from concept to implementation was reduced by 40% using FormBuilder
- The error margins were reduced by around 18% - 20% due to automation
- The improved quality of information gathering increased the productivity of our client by 20%
- Digital Forms helped reduce printing costs by 10%, thus raising profitability

- Implemented a functionality to download and save the form on the iPad in low network connectivity areas, thereby ensuring that the user can operate ubiquitously. Provided security of confidential documents by a security log that validates the content and contains records of login/logout activity. Used Complex Rule builder (Designer) like expression, dependency and compliance in JavaScript and Rule engine Windows services for Rule evaluations

## HIGH LEVEL ARCHITECTURE



## TECHNOLOGY STACK

- Server side : J2EE
- Client side: iPad, iOS Programming Environment



### 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.