TELOXIS

Case Studies By Teloxis Consulting



Editorial Documentation and Document Management System



Summary

 Easily composable and searchable Document Management library with multiple versions along with proofread, approve, publish, authoring framework



Customer Profile

 Indian Express, the large newspaper industry in India



Challenges

- Different
 Document Types
- Too many categorizations
- Scanned Images
- Different
 Document versions
- Different Indian languages like Dinamani, Andhra Prabha etc.



Solution

- CVS version control
- Tesseract OCR
- Full text Search
- Keyword Tag Search
- ISCII storage
- PostgreSQL
- Rich text editor
- Pagination, Collaborative editing
- Twain scanners



- Removed totally paper library and manual paste-up department
- Shortened publish time by 50%
- Increased readers' space
- Engaged Employees
- Cut down cost by 80%



SMS Alerting System for Traffic Violation



Summary

Sending SMS who violate traffic rules such as wrong way drive, prohibited lane changes, speed limit and crossing while red light, through cameras by identifying vehicle number



Customer Profile

Wara, IT
 consultant for
 Ministry of
 Interior, Kuwait subcontract from
 Cherrytec,
 Chennai



Challenges

- Capturing a speedy vehicle
- Mix of Arabic Numerals and Indo Arabic Numbers
- SMS should be sent in Arabic or English based on demographics
- Low Night vision



Solution

- 1 camera monitors 3 lanes concurrent
- Synchronized IR
 Laser Flash at night
- 3D Radar for position, speed
- Manhattan and Canberra Distance calculator
- MTC, Kuwait for SMSC gateway



- Revenue increased by 40%
- Stop sign violation and wrong way drive brought near to 0% from 20%
- Accident rate reduced by 30%



DICOM SR VIEWER



Summary

 Online software model for desktop, mobile and tablets, in a single login environment to view DICOM images and SR Reports in offline mode



Customer Profile

Toshiba Medicals,
 Japan based
 customer
 manufacturing
 CT, MRI, PET,
 CTPET machines



Challenges

- Connectivity to DICOM Network to download files
- Adherence to DICOM Imaging Security policies
- Complex standards
- Complex templates
- Different modalities have different templates



Solution

- SOA
- 2 Pass Parser
- Code name Customizer
- Single Sign On
- Dcm4che, Dvtk Kit
- NEMA guides



- Faster on the fly viewer
- Increased customer space
- Reduced recurrence cost to maintain software
- One software for all modalities



Healthcare Business Intelligence And Data Analytics



Summary

- ONC Certified EMR, US Health care PM System and Al for improving efficiency, effectiveness, Health status and Patient safety
- Turn data into assets that provide results in real time



Customer Profile

eligible health care provider



Challenges

- Legacy Systems and FHIR enabled systems •
- Complex Data-Health, Finance Standards
- Payers Follow-up
- PHI
- Life sensitive
- Physicians Availability
- **Patients Cancellation**
- Manual Prescription
- Paper Records



Solution

- Tableau
- RPA
- HL7 integration
- Value care system
- Correct KPIs
- Rule engines for Data quality assurance
- DMAIC process
- UCD and SED for CX
- EMR, PM, RCM



- Reduced Readmissions
- Efficient utilization of beds, operating rooms, equipment, staffs
- RCM streamlined cashflow
- Quicker Clinical **Decisions**
- **Connected Care**



PMO Business Intelligence and Data Analytics



Summary

- Monitor PMO activities
- Take instant decisions
- Re-prioritize projects and resources



Customer Profile

 gloStream DBA TRIARQ health practices, a healthcare consulting firm



Challenges

- Simultaneous projects
- Different backlog channels
- No single point of status



Solution

- MS Project Online
- Power BI
- Predictive Analytics for Projects and Resources
- Business Driver Prioritization
- Projects SLA tracker
- Pareto Analysis



- 100% Resource utilization
- Employee engagement
- One-place dashboard
- Predictive decisions
- Transparency and improved Employee moral



Digital Transformation – IT Modernization



Summary

- On-demand healthcare
- Artificial intelligence for precision medicine, medical imaging, drug discovery, and genomics
- Integration of wearable devices



Customer Profile

 US Health care eligible health care provider



Challenges

- Cyber Security and patient data
- The aging population
- Illiterate group
- New gen's changed expectations
- Mobile and wireless, remote healthcare from home
- Complex standards like FHIR and others



Solution

- Al to early diagnosis Better patient care
- ML in preventive medicine
- BI tools integration
- Automation tools like RPA
- IoT, AR/VR support
- Rule engines for Data quality assurance
- Mobile, Cloud Apps



- Saved time, improved decisions
- Reduced errors and risks of errors
- Easier to use
- Lower cost
- Connected with other systems
- Digital in-home care with AR/VR



TELOXIS

