

Oakland County Department of Information Technology Project Scope and Approach

Project Name: Clerks - Rewrite Trust and Abstract Systems

Project ID: DB1212AT

Leadership Group: Courts		
Department: Clerk/Register		Division: County Clerk
Project Sponsor: Jennifer Howden	Date Requested: 3/17/2020	PM Customer No. 212
Request Type: <i>New Development</i>		
IT Team Name: Courts		IT Team No: B
Project Manager/Leader: Beth Gleason		
Account Number: 95189	Account Description: Clerk Legal Records	Customer Name: Clerks
Grant Funded? No	Mandate? No	Mandate Source:

Project Goal

To rewrite the Abstract and Trust Applications which are currently utilizing Access using newer technologies so that efficiencies can be utilized.

Business Objective

To utilize newer technologies so the Abstract and Trust Systems are more efficient technically which will decrease time of new user training, improve ease of use, gain time efficiencies when obtaining data, and decrease support calls.

Major Deliverables

- Detailed Project Plan
- Application and/or System Requirements
- End User Hardware and Software Requirements Document
- Technical Design Document
- Technical Architecture Diagram
- Training Plan
- User Acceptance Test Plan
- Implementation Plan
- Application Code
- Disaster Recovery Toolkit
- Service Center Knowledge Documents

Oakland County Department of Information Technology Project Scope and Approach

Project Name: Clerks - Rewrite Trust and Abstract Systems

Project ID: DB1212AT

Approach

- Develop Detailed Project Plan
- Review current business process and conduct needs assessment with customer, ensuring current manual processes are refined and automated.
- Security Reviews
- Document system requirements
- Determine and document system architecture and diagram
- Assess User Hardware and Software Requirements
- Conduct Tech Review
- Order hardware and software if needed
- Develop Implementation Plan
- Develop new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop Disaster Recovery Toolkit and Service Center Knowledge Documents
- Train users on new system
- Release new system into production

Research & Analysis

Gartner Research Recommendation - Research conducted, nothing found.

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users 15

Divisions Clerk

Leadership Groups Courts

**Oakland County
Department of Information Technology
Project Scope and Approach**

Project Name: Clerks - Rewrite Trust and Abstract Systems

Project ID: DB1212AT

Risk

Business Environment Low - Project will require some changes to existing business processes.

Technical Environment Low – Proven and previously implemented technologies

Assumptions

Staffing IT Staffing: resources will be available for the hours indicated per the attached project plan.

Other Staffing: additional staffing will be available as follows:

<u>Role:</u>	<u>Name</u>	<u>Hours per Day</u>
Project Sponsor:	Jennifer Howden	As Needed

Facilities

-

Technical

-

Funding

-

Other

-

Priority

-

**Oakland County
Department of Information Technology
Project Scope and Approach**

Project Name: Clerks - Rewrite Trust and Abstract Systems

Project ID: DB1212AT

Constraints

-
-

Exclusions

- These systems will not integrate with any other system, or each other.

Oakland County Department of Information Technology Project Scope and Approach

Project Name: Clerks - Rewrite Trust and Abstract Systems

Project ID: DB1212AT

PROJECT PHASE AUTHORIZATION

Phase(s):	
Total Estimated Application Services	Hours: 1174
Total Estimated Technical Systems	Hours: 113
Total Estimated CLEMIS	Hours:
Total Estimated Internal Services	Hours:
IT Application Services Division Manager Approval:	Date:
IT Technical Systems Division Manager Approval:	Date:
IT CLEMIS Division Manager Approval:	Date:
IT Internal Services Division Manager Approval:	Date:
IT Management Approval:	
Approved: Yes No	Date:
Reason:	
Project Sponsor Approval:	
Title:	Date:

PROJECT SUMMARY

Authorized Development (see above)	Hours: 1287
Preliminary Estimated Development for Future Phases	Hours:
Grand Total Estimated Development	Hours: 1287 Cost: \$212,355

Oakland County Department of Information Technology Project Scope and Approach

Project Name: Clerks - Rewrite Trust and Abstract Systems

Project ID: DB1212AT

PROJECT COMPLETION AUTHORIZATION

Customer Acceptance of Product:	
Title:	Date:
Project Office Review:	
	Date:

Clerks - Rewrite Trust and Abstract Systems - Size Estimate (+/- 10% to 50%)

1	Type	ID	Task Name	Estimated
2				Hours
3	Phase	000000	PROJECT MANAGEMENT	286
4	Phase	200000	DEFINE BUSINESS REQUIREMENTS	81
5	Phase	300000	DESIGN SYSTEM ARCHITECTURE	78
6	Phase	500000	DEVELOP APPLICATION	717
7	Phase	900000	TRAINING AND TRANSITION PHASE	10
8	Phase	600000	IMPLEMENTATION PHASE	81
9	Phase	080000	POST IMPLEMENTATION SUPPORT	34
10				1,287

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Benefits/Savings:							
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	0	0	0	0	0	0	0
Costs:							
Development Services Subtotal:	217,305	5,000	5,049	5,100	5,151	5,202	242,807
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	0	0	0	0	0	0	0
Infrastructure Subtotal:	0	0	0	0	0	0	0
Training Subtotal:	0	0	0	0	0	0	0
Other Subtotal:	0	0	0	0	0	0	0
Annual Statistics:							
Annual Total Savings	0	0	0	0	0	0	0
Annual Total Costs	217,305	5,000	5,049	5,100	5,151	5,202	242,807
Annual Return on Investment	(217,305)	(5,000)	(5,049)	(5,100)	(5,151)	(5,202)	(242,807)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Project Cumulative Statistics:							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	217,305	222,305	227,354	232,454	237,605	242,807	242,807
Cumulative Return on Investment	(217,305)	(222,305)	(227,354)	(232,454)	(237,605)	(242,807)	(242,807)
Cumulative Cost/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							
Signatures:							
Benefits Reviewed By Project Sponsor	_____			Date:	_____		
Costs (including IT Resources) Reviewed By Information Technology Project Manager	_____			Date:	_____		

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Savings Detail

Benefit/Savings Description	Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
						0	
Abstracts - Improve data communications from the clerk to the Secretary of State (SOS). Licensing abstracts are not being processed. This is a critical need for clerk.	Intangible Benefit					0	1.010
Abstracts & Trust - Technology is old and rewriting in new technology would decrease query time.	Intangible Benefit					0	1.010
Abstract & Trust - Rewrite would increase overall performance and user navigation.	Intangible Benefit					0	1.010
Abstract - Eliminate confusion with SOS on what we are sending, ex. alcohol audits.	Intangible Benefit					0	1.010
Abstract - Improve error reporting. Currently most errors from SOS are not being relayed to clerk.	Intangible Benefit					0	1.010
Abstract & Trust - Eliminate issues for new county-wide technology implementations of Office products.	Intangible Benefit					0	1.010
Abstract & Trust - Increase ability for new reporting.	Intangible Benefit					0	1.010
Trust - Create the ability to reprint a receipt.	Intangible Benefit					0	1.010
Abstracts & Trust - Security risks with outdated technology.	Intangible Benefit					0	1.010
Abstracts & Trust - both databases are critical processes for the clerk. We could not have one or both down or not functioning properly due to aging technology.	Intangible Benefit					0	1.010
						0	
						0	
						0	
						0	
						0	

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Savings Detail

Benefit/Savings Description	Project Savings Category	Affects Project ROI?						Potential Savings Extensions					
		Y1	Y2	Y3	Y4	Y5	Y6	Y1	Y2	Y3	Y4	Y5	Y6
Abstracts - Improve data communications from the clerk to the Secretary of State (SOS). Licensing abstracts are not being processed. This is a critical need for clerk.	Intangible Benefit												
Abstracts & Trust - Technology is old and rewriting in new technology would decrease query time.	Intangible Benefit												
Abstract & Trust - Rewrite would increase overall performance and user navigation.	Intangible Benefit												
Abstract - Eliminate confusion with SOS on what we are sending, ex. alcohol audits.	Intangible Benefit												
Abstract - Improve error reporting. Currently most errors from SOS are not being relayed to clerk.	Intangible Benefit												
Abstract & Trust - Eliminate issues for new county-wide technology implementations of Office products.	Intangible Benefit												
Abstract & Trust - Increase ability for new reporting.	Intangible Benefit												
Trust - Create the ability to reprint a receipt.	Intangible Benefit												
Abstracts & Trust - Security risks with outdated technology.	Intangible Benefit												
Abstracts & Trust - both databases are critical processes for the clerk. We could not have one or both down or not functioning properly due to aging technology.	Intangible Benefit												

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tangible Benefit:							
<i>Tangible Benefits Subtotal:</i>							
Cost Avoidance:							
<i>Cost Avoidance Subtotal:</i>							
Intangible Benefit:							
Abstracts - Improve data communications from the clerk to the Secretary of State (SOS). Licensing abstracts are not being processed. This is a critical need for clerk.							
Abstracts & Trust - Technology is old and rewriting in new technology would decrease query time.							
Abstract & Trust - Rewrite would increase overall performance and user navigation.							
Abstract - Eliminate confusion with SOS on what we are sending, ex. alcohol audits.							
Abstract - Improve error reporting. Currently most errors from SOS are not being relayed to clerk.							
Abstract & Trust - Eliminate issues for new county-wide technology implementations of Office products.							
Abstract & Trust - Increase ability for new reporting.							
Trust - Create the ability to reprint a receipt.							
Abstracts & Trust - Security risks with outdated technology.							

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Abstracts & Trust - both databases are critical processes for the clerk. We could not have one or both down or not functioning properly due to aging technology.							
Savings Total:							

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Cost Detail

22 Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual Multiplier	Affects Project ROI?						
								Y1	Y2	Y3	Y4	Y5	Y6	
IT Hours - New Development	Development Svcs			1,287	165	212,355	1.010	x						
IT Hours - System Maintenance	Development Svcs			10	165	1,650	1.010	x	x	x	x	x	x	x
IT Hours - Customer Support	Development Svcs			10	165	1,650	1.010	x	x	x	x	x	x	x
IT Hours - Planned Maintenance	Development Svcs			10	165	1,650	1.010	x	x	x	x	x	x	x
User Hours - New Development	Development Svcs					0								
User Hours - PTNE/OT	Development Svcs					0								
Contractor Professional Services	Development Svcs					0								
PC System - Acquisition	Hardware				687	0								
PC System - Maintenance	Hardware				2,936	0								
Notebook - Acquisition	Hardware				1,115	0								
Notebook - Maintenance	Hardware				3,024	0								
Tablet Notebook - Acquisition	Hardware				1,421	0								
Tablet Notebook - Maintenance	Hardware				2,800	0								
Laserprinter - Acquisition	Hardware				1,432	0								
Laserprinter - Maintenance	Hardware				1,408	0								
PC Maintenance User Owned	Hardware				2,720	0								
Printer Maintenance User Owned	Hardware				1,264	0								
File Space (100GB)	Hardware		ANN		23	0								
Package Software - Acquisition	Software					0								
Package Software - Maintenance	Software					0								
Business Objects Access	Software					0								
Term Emulation SFTW-Acquisition	Software					0								
Term Emulation SFTW-Maintenance	Software					0								
Server - Acquisition/Upgrade	Infrastructure				8,000	0								
Server - Maintenance	Infrastructure				360	0								
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0								
Server Sftwre - Maintenance	Infrastructure					0								
Server Rack Mount	Infrastructure				400	0								
Oracle Enterprise Software Purchase - Per Processor (4 Cores) - Requires Annual Support Below	Infrastructure				42,280	0								
Oracle Enterprise Software Support - Per Processor (4 Cores)	Infrastructure				9,293	0	1.030							

Oakland County -- Clerks - Rewrite Trust and Abstract Systems
Return on Investment Analysis

Cost Detail

22 Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual Multiplier	Affects Project ROI?							
								Y1	Y2	Y3	Y4	Y5	Y6		
SQL Server Enterprise Software Purchase - Per Processor (4 cores) - Purchased Sept 2019-Aug 2020 - Includes Support thru Aug 2022	Infrastructure				16,985	0									
SQL Server Enterprise Software Purchase - Per Processor (4 cores) - Purchased Sept 2020-Aug 2021 - Includes Support thru Aug 2022	Infrastructure				12,724	0									
SQL Server Enterprise Software Purchase - Per Processor (4 cores) - Purchased Sept 2021-Aug 2022 - Includes Support thru Aug 2022	Infrastructure				8,463	0									
SQL Server Enterprise - Support, Per Processor (4 cores) - Sept 2022 and Beyond	Infrastructure				4,261	0									
SQL Server Standard Software Purchase - Per Processor (4 cores) - Purchased Sept 2019-Aug 2020 - Includes Support thru Aug 2022	Infrastructure				4,429	0									
SQL Server Standard Software Purchase - Per Processor (4 cores) - Purchased Sept 2020-Aug 2021 - Includes Support thru Aug 2022	Infrastructure				3,317	0									
SQL Server Standard Software Purchase - Per Processor (4 cores) - Purchased Sept 2021-Aug 2022 - Includes Support thru Aug 2022	Infrastructure				2,205	0									
SQL Server - Standard Support, Per Processor (4 cores) - Sept 2022 and Beyond	Infrastructure				1,112	0									
Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance	Infrastructure				3,506	0									

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Cost Detail

22 Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual Multiplier	Affects Project ROI?							
								Y1	Y2	Y3	Y4	Y5	Y6		
Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond	Infrastructure				701	0									
Websphere ND Per Processor Single/Dual Core - Includes Year 1 Maintenance	Infrastructure				13,180	0									
Websphere ND Per Processor Single/Dual Core - Year 2 and Beyond	Infrastructure				2,635	0									
SSL Certificate	Infrastructure				845	0									
Internet Access	Infrastructure				180	0									
Imperva Web Application Firewall (External Web Applications Only)	Infrastructure		ANN		500	0									
App Code Directories on Consolidated IIS Server (Virtual)	Infrastructure		ANN		415	0									
Dedicated Virtual Server	Infrastructure		ANN		4,150	0									
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = N/A	Infrastructure		ANN			0									
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server = \$9,288	Infrastructure		ANN			0									
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$9,751	Infrastructure		ANN			0									
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,446	Infrastructure		ANN			0									

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Cost Detail

22 Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual Multiplier	Affects Project ROI?							
								Y1	Y2	Y3	Y4	Y5	Y6		
Extra Large - 40 Core 160GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$12,906	Infrastructure		ANN			0									
Project Staff Training	Training					0									
User Training	Training					0									

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Cost Detail

22		Potential Cost Extensions					
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs	212,355.00					
IT Hours - System Maintenance	Development Svcs	1,650.00	1,666.50	1,683.17	1,700.00	1,717.00	1,734.17
IT Hours - Customer Support	Development Svcs	1,650.00	1,666.50	1,683.17	1,700.00	1,717.00	1,734.17
IT Hours - Planned Maintenance	Development Svcs	1,650.00	1,666.50	1,683.17	1,700.00	1,717.00	1,734.17
User Hours - New Development	Development Svcs						
User Hours - PTNE/OT	Development Svcs						
Contractor Professional Services	Development Svcs						
PC System - Acquisition	Hardware						
PC System - Maintenance	Hardware						
Notebook - Acquisition	Hardware						
Notebook - Maintenance	Hardware						
Tablet Notebook - Acquisition	Hardware						
Tablet Notebook - Maintenance	Hardware						
Laserprinter - Acquisition	Hardware						
Laserprinter - Maintenance	Hardware						
PC Maintenance User Owned	Hardware						
Printer Maintenance User Owned	Hardware						
File Space (100GB)	Hardware						
Package Software - Acquisition	Software						
Package Software - Maintenance	Software						
Business Objects Access	Software						
Term Emulation SFTW-Acquisition	Software						
Term Emulation SFTW-Maintenance	Software						
Server - Acquisition/Upgrade	Infrastructure						
Server - Maintenance	Infrastructure						
Server Sftwre - Acquisition/Upgrade	Infrastructure						
Server Sftwre - Maintenance	Infrastructure						
Server Rack Mount	Infrastructure						
Oracle Enterprise Software Purchase - Per Processor (4 Cores) - Requires Annual Support Below	Infrastructure						
Oracle Enterprise Software Support - Per Processor (4 Cores)	Infrastructure						

Oakland County -- Clerks - Rewrite Trust and Abstract Systems
Return on Investment Analysis

Cost Detail

22		Potential Cost Extensions					
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6
SQL Server Enterprise Software Purchase - Per Processor (4 cores) - Purchased Sept 2019-Aug 2020 - Includes Support thru Aug 2022	Infrastructure						
SQL Server Enterprise Software Purchase - Per Processor (4 cores) - Purchased Sept 2020-Aug 2021 - Includes Support thru Aug 2022	Infrastructure						
SQL Server Enterprise Software Purchase - Per Processor (4 cores) - Purchased Sept 2021-Aug 2022 - Includes Support thru Aug 2022	Infrastructure						
SQL Server Enterprise - Support, Per Processor (4 cores) - Sept 2022 and Beyond	Infrastructure						
SQL Server Standard Software Purchase - Per Processor (4 cores) - Purchased Sept 2019-Aug 2020 - Includes Support thru Aug 2022	Infrastructure						
SQL Server Standard Software Purchase - Per Processor (4 cores) - Purchased Sept 2020-Aug 2021 - Includes Support thru Aug 2022	Infrastructure						
SQL Server Standard Software Purchase - Per Processor (4 cores) - Purchased Sept 2021-Aug 2022 - Includes Support thru Aug 2022	Infrastructure						
SQL Server - Standard Support, Per Processor (4 cores) - Sept 2022 and Beyond	Infrastructure						
Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance	Infrastructure						

Oakland County -- Clerks - Rewrite Trust and Abstract Systems
Return on Investment Analysis

Cost Detail

22	Project Cost Category	Potential Cost Extensions					
Cost Description		Y1	Y2	Y3	Y4	Y5	Y6
Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond	Infrastructure						
Websphere ND Per Processor Single/Dual Core - Includes Year 1 Maintenance	Infrastructure						
Websphere ND Per Processor Single/Dual Core - Year 2 and Beyond	Infrastructure						
SSL Certificate	Infrastructure						
Internet Access	Infrastructure						
Imperva Web Application Firewall (External Web Applications Only)	Infrastructure						
App Code Directories on Consolidated IIS Server (Virtual)	Infrastructure						
Dedicated Virtual Server	Infrastructure						
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = N/A	Infrastructure						
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server = \$9,288	Infrastructure						
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$9,751	Infrastructure						
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,446	Infrastructure						

Oakland County -- Clerks - Rewrite Trust and Abstract Systems
Return on Investment Analysis

Cost Detail

22		Potential Cost Extensions					
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6
Extra Large - 40 Core 160GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$12,906	Infrastructure						
Project Staff Training	Training						
User Training	Training						

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development	212,355						212,355
IT Hours - System Maintenance	1,650	1,667	1,683	1,700	1,717	1,734	10,151
IT Hours - Customer Support	1,650	1,667	1,683	1,700	1,717	1,734	10,151
IT Hours - Planned Maintenance	1,650	1,667	1,683	1,700	1,717	1,734	10,151
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
<i>Development Services Subtotal:</i>	217,305	5,000	5,049	5,100	5,151	5,202	242,807
Hardware:							
<i>Hardware Subtotal:</i>							
Software:							
<i>Software Subtotal:</i>							
Infrastructure:							
<i>Infrastructure Subtotal</i>							
Training:							
<i>Training Subtotal:</i>							
Other:							
<i>Other Subtotal:</i>							
Costs Total:	217,305	5,000	5,049	5,100	5,151	5,202	242,807

Oakland County -- Clerks - Rewrite Trust and Abstract Systems

Return on Investment Analysis

Assumptions

Date	Assumption Description
Abstract	
6/3/2020	Assumes a Web front end
6/3/2020	Move to a new SQL environment for existing Access database
6/3/2020	13 Application tables, 10 entry screens 15 reports
6/3/2020	DBA effort to design tables 1 hour per table
6/3/2020	Will use consolidated application server.
6/3/2020	Will use consolidated database server.
6/3/2020	Assumes 5 users
6/3/2020	Utilize Okta
Trust	
6/3/2020	Assumes a Web front end
6/3/2020	Move to the latest version of SQL, the current SQL version SQL 2012 and is out of date
6/3/2020	13 Application tables, 10 entry screens 15 reports
6/3/2020	DBA effort to design tables 1 hour per table
6/3/2020	Will use consolidated application server.
6/3/2020	Will use consolidated database server.
6/3/2020	Assumes 5 users
6/3/2020	Utilize Okta