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Blog 2 - Data Collection and Analysis

Electronic Health Records are digital versions of patients' medical records that contain comprehensive information about their health and medical history. Electronic Health Records has become steadily increasing in how many professionals use these softwares due to their ability to increase the productivity and accuracy of medical record-keeping. In this essay, I will analyze the usability of an existing Electronic Health Records system using the System Usability Scale.

The Electronic Health record that is being analyzed is called Epic. Epic is a widely used system that resides within the Electronic Health Records category that is used in many healthcare organizations, including hospitals and clinics. The system is designed to provide healthcare professionals with easy access to patient records and to facilitate communication between healthcare providers. To analyze the usability of the Epic system, I administered the System Usability Scale to a sample of healthcare professionals who use the system regularly. The SUS is a well-established tool for assessing the usability of software systems. It consists of ten questions that measure users' perceptions of a system's usability on a scale from zero all the way to one hundred

The data that was collected and then later analyzed showed that the results of the Epic system had a below average level of usability. The system's strengths included its ability to store and retrieve patient records quickly and easily, as well as its functionality for clinical documentation. However, the system's weaknesses included its complex user interface, which

can make it difficult for healthcare professionals to navigate and find the information they need quickly. Along with its poor implementation of a training program for recruits. Furthermore, some of the users had reported some technical issues within the system, which can often be frustrating and time consuming for the user.

Overall, this analysis provides valuable insights into the usability of the Epic system. By identifying the system's strengths and weaknesses, healthcare organizations can make informed decisions about how to redesign the system to improve its usability. For example, simplifying the user interface and providing more intuitive navigation tools could help make the system more user-friendly. Additionally, addressing technical issues and improving system performance could help reduce the frustration and time-consuming nature of the system.

In conclusion, the analysis of the Epic system using the System Usability Scale has provided valuable insights into the usability of this popular Electronic Health Records system. By identifying the system's strengths and weaknesses, healthcare organizations can make informed decisions about how to redesign the system to improve its usability and ultimately enhance patient care. (results below)

Modified System Usability Scale

Please answer the following questions as it pertains to EHR.

	Strongly disagree				Strongly agree
1. I use this system frequently	X				
	1	2	3	4	5
2. I feel the system is unnecessarily complex					X
	1	2	3	4	5
3. I feel the system is easy to use		X			
	1	2	3	4	5
4. I feel I need a technical person to help me use this system					X
	1	2	3	4	5
5. I found the various functions in this system to be well integrated			X		
	1	2	3	4	5
6. There is too much inconsistency in this system			X		
	1	2	3	4	5
7. I imagine that most people would learn to use this system very quickly	X				
	1	2	3	4	5
8. The system is very cumbersome to use				X	
	1	2	3	4	5
9. I feel very confident using ths system.	X				
	1	2	3	4	5
10. I needed to learn a lot of things before I could get going with this system				X	
	1	2	3	4	5

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Please answer the following questions as it pertains to EHR.

	Strongly disagree				Strongly agree
1. I use this system frequently	X				
	1	2	3	4	5
2. I feel the system is unnecessarily complex			X		
	1	2	3	4	5
3. I feel the system is easy to use		X			
	1	2	3	4	5
4. I feel I need a technical person to help me use this system					X
	1	2	3	4	5
5. I found the various functions in this system to be well integrated		X			
	1	2	3	4	5
6. There is too much inconsistency in this system				X	
	1	2	3	4	5
7. I imagine that most people would learn to use this system very quickly	X				
	1	2	3	4	5
8. The system is very cumbersome to use			X		
	1	2	3	4	5
9. I feel very confident using ths system.	X				
	1	2	3	4	5
10. I needed to learn a lot of things before I could get going with this system					X
	1	2	3	4	5

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Modified System Usability Scale

Please answer the following questions as it pertains to EVR.

	Strongly disagree				Strongly agree
1. I use this system frequently		X			
	1	2	3	4	5
2. I feel the system is unnecessarily complex				X	
	1	2	3	4	5
3. I feel the system is easy to use			X		
	1	2	3	4	5
4. I feel I need a technical person to help me use this system				X	
	1	2	3	4	5
5. I found the various functions in this system to be well integrated			X		
	1	2	3	4	5
6. There is too much inconsistency in this system		X			
	1	2	3	4	5
7. I imagine that most people would learn to use this system very quickly		X			
	1	2	3	4	5
8. The system is very cumbersome to use		X			
	1	2	3	4	5
9. I feel very confident using ths system.			X		
	1	2	3	4	5
10. I needed to learn a lot of things before I could get going with this system				X	
	1	2	3	4	5

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Modified System Usability Scale

Please answer the following questions as it pertains to EHR.

	Strongly disagree				Strongly agree
1. I use this system frequently	X				
	1	2	3	4	5
2. I feel the system is unnecessarily complex					X
	1	2	3	4	5
3. I feel the system is easy to use	X				
	1	2	3	4	5
4. I feel I need a technical person to help me use this system					X
	1	2	3	4	5
5. I found the various functions in this system to be well integrated		X			
	1	2	3	4	5
6. There is too much inconsistency in this system				X	
	1	2	3	4	5
7. I imagine that most people would learn to use this system very quickly	X				
	1	2	3	4	5
8. The system is very cumbersome to use					X
	1	2	3	4	5
9. I feel very confident using ths system.	X				
	1	2	3	4	5
10. I needed to learn a lot of things before I could get going with this system					X
	1	2	3	4	5

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Modified System Usability Scale

Please answer the following questions as it pertains to EMR.

	Strongly disagree 1	2	3	4	Strongly agree 5
1. I use this system frequently	X				
2. I feel the system is unnecessarily complex			X		
3. I feel the system is easy to use			X		
4. I feel I need a technical person to help me use this system					X
5. I found the various functions in this system to be well integrated			X		
6. There is too much inconsistency in this system			X		
7. I imagine that most people would learn to use this system very quickly			X		
8. The system is very cumbersome to use			X		
9. I feel very confident using ths system.		X			
10. I needed to learn a lot of things before I could get going with this system				X	

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