IS345 Systems Analysis

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Quality Attributes

Update 1.1.0

Attribute Prioritization

External:
Attribute: (Priority) Reasoning

Availability: (3) System must be available at registration times
Integrity: (7) The data in the system must be accurate and backed up with redundancies
Interoperability: (8) The system must interface with several other WOU systems
Performance: (6) The system needs to respond in a timely manner
Reliability: (4) The users should not be affected by system failures
Security: (9) Unauthorized access is not permitted
Usability: (2) The system should be usable with zero training

Internal:
Attribute: Priority/ Reasoning

Efficiency: (5) The system should use a minimum of bandwidth
Portability: (1) The system should be useable from every browser or operating system
Scalability: (11) System will scale as dictated by college enrollment
Verifiability: (10) Dev team and testers should have no issues completing tasks

Chart
< Indicates attribute to left is higher priority
^ Indicates attribute at top is higher priority

Attribute	Score	Availability	Integrity	Interoperability	Performance	Reliability	Security	Usability	Efficiency	Portability	Scalability	Verifiability
Availability	3		<	<	<	<	<	^	<	^	<	<
Integrity	7			<	^	^	<	^	^	^	<	<
Interoperability	8				^	^	<	^	^	^	<	<
Performance	6					^	<	^	^	^	<	<
Reliability	4						<	^	<	^	<	<
Security	9							^	^	<	<	<
Usability	2								<	^	<	<
Efficiency	5									^	<	<
Portability	1										<	<
Scalability	11											^
Verifiability	10											

Attribute Interaction

Attribute	Availability	Integrity	Interoperability	Performance	Reliability	Security	Usability	Efficiency	Portability	Scalability	Verifiability
Availability	N/A				+				+		
Integrity	+	N/A		-	+	+	-	-			
Interoperability			N/A	+		-				-	-
Performance				N/A	+	+	+	+			
Reliability	+	+	+	+	N/A	+	+	+			+
Security	-	+	-	-	+	N/A	-	-	-		
Usability				-			N/A	-	+		
Efficiency			+	+	+	-	+	N/A	+	+	+
Portability	+	-		-		-	+	-	N/A		-
Scalability	+	-		-	-			-		N/A	
Verifiability	+	+		+				+			N/A