TEAM4OIES

Data Requirements Specification (DRS)

# of Es: 8
# of Rs: 7
# of Vs: 1
# of Ts: 1

# of Ds: 15 (# of Es + # of Rs)

# of Cs: 10 (# of Es + # of Vs + # of Ts)

Version 2.0

Approvals Signature Block

	Name	Signature	Date
Customer	Adeline Schwein		
DBA	Jainesh Mehta		3-9-2015
DBA	Logan Stark		3-9-2015
TL	Javier Rivera		3-9-2015
SQA	Linh Jung		3-9-2015
SQA	paul miller		3-9-2015

TABLE 1: Data Requirements

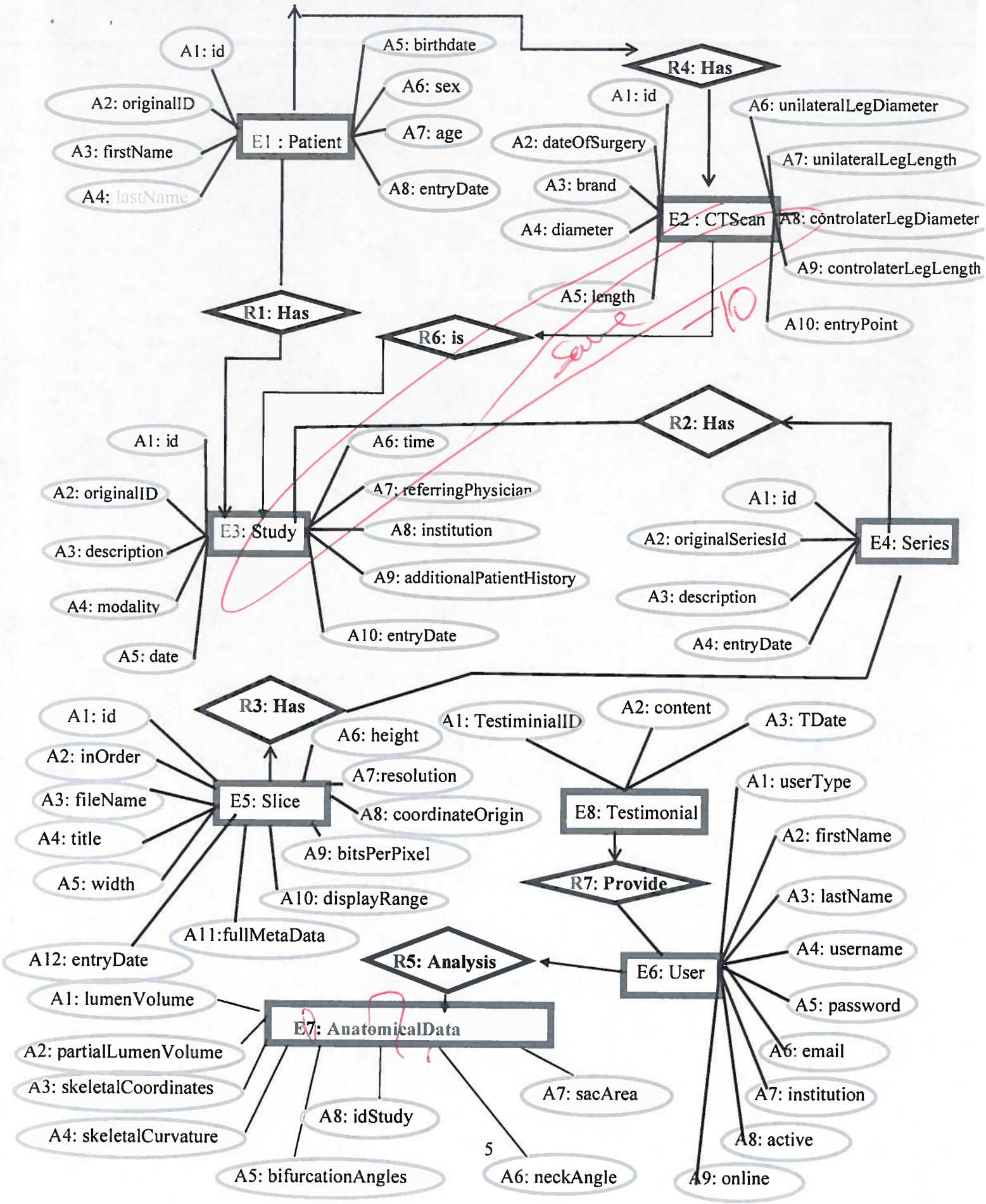
ID	Detail	Entity Set/Relationship Set Name	Accessed by Actor(s)	Accessed type (r,w, query)	Line #
D1	**Patient, 8 attributes:**	**E1: Patient**	**Surgeon, Auditor**		
	A1: **id**			r, query	225
	A2: originalID			r, w, query	226
	A3: firstName			r, w, query	228
	A4: lastName			r, w, query	230
	A5: birthdate			r, w, query	232
	A6: sex			r, w, query	234
	A7:age			r, w, query	235
	A8:entryDate			r, w, query	236
D2	**CTScan, 10 attributes:**	**E2: CTScan**	**Surgeon, Auditor**		
	A1: **id**			r, query	238
	A2: dateOfSurgery			r, query	239
	A3: brand			r, query	240
	A4: diameter			r, query	241
	A5: length			r, query	242
	A6: unilateralLegDiameter			r, query	243
	A7: unilateralLegLength			r, query	244
	A8:controlaterLegDiameter			r, query	245
	A9: controlaterLegLenght			r, query	246
	A10: entryPoint			r, query	247
D3	**Study, 10 attributes:**	**E3: Study**	**Surgeon, Auditor**		
	A1: **id**			r, query	249
	A2: originalID			r, query	250
	A3: description			r, query	252
	A4: modality			r, query	254
	A5: date			r, query	255
	A6: time			r, query	257
	A7: referringPhysician			r, query	259
	A8: institution			r, query	262
	A9: additionalPatientHistory			r, query	264
	A10: entryDate			r, query	267
D4	**Series, 4 attributes:**	**E4: Series**	**Surgeon, Auditor**		
	A1:**id**			r, query	269
	A2: originalSeriesId			r, query	270
	A3: description			r, query	272

	A4: entryDate			r, query	274
D5	**Slice, 12 attributes:**	**E5: Slice**	**Surgeon, Auditor**		
	A1: **id**			r, query	276
	A2: inOrder			r, query	277
	A3: filename			r, query	278
	A4: title			r, query	279
	A5: width			r, query	280
	A6: height			r, query	281
	A7: resolution			r, query	282
	A8: coordinateOrigin			r, query	283
	A9: bitsPerPixel			r, query	284
	A10: displayRange			r, query	285
	A11: fullMetaData			r, query	286
	A12: entryDate			r, query	286
D6	**User, 9 attributes:**	**E6: User**	**Auditor, Surgeon, CFD Scientist, Computational Scientist**		
	A1: userType			r, query	289
	A2: firstName			r, w, query	308
	A3: lastName			r, w, query	309
	A4: **username**			r, query	310
	A5: password			r, w, query	311
	A6: email			r, w, query	312
	A7: institution			r, w, query	313
	A8: active			r, w, query	315
	A9: online			r, w, query	316
D7	**AnatomicalData, 7 attributes:**	**E7: AnatomicalData**	**Computational Scientist, Surgeon**		
	A1: lumenVolume			r, query	65
	A2: partialLumenVolume			r, query	66
	A3: skeletalCoordinates			r, query	67
	A4: skeletalCurvature			r, query	68
	A5: bifurcationAngles			r, query	69
	A6: neckAngle			r, query	70
	A7: sacArea			r, query	71
	A8: **idStudy**			r, query	63
D8	**Testimonial, 3 attributes:**	**E8: Testimonial**	**Surgeon CFD Scientist**		
	A1: **TestimonialID**			r, query	**27**
	A2: content			r, w, query	**27**
	A3: tDate			r , query	**27**
D9	**Has, 0 attributes**	**R1: Has**		**Patient & Studies**	
D10	**Has, 0 attributes**	**R2: Has**		**Study & Series**	
D11	**Has, 0 attributes**	**R3: Has**		**Series &**	

				Slices	
D12	Has, 0 attributes	R4: Has		Patient & CTScan	
D13	Analysis, 0 attributes	R5: Analysis		User & Anatomical Data	
D14	Is, 0 attributes	R6: Is		CTScan & Study	
D15	Provide, 0 attributes	R7: Provide		User & Testimonial	

TABLE 2: Constraints

ID	Detail	Entry Set PK or Views or Triggers	Constraints
D1	A1: id	E1: Patient	PK
C2	A1: id	E2: CTScan	PK
C3	A1: id	E3: Study	PK
C4	A1:id	E4: Series	PK
C5	A1: id	E5: Slice	PK
C6	A4: username	E6: User	PK
C7	A8: idStudy	E7: AnatomicalData	FK
C8	A1: TestimonialID	E8: Testimonial	PK
C9	E3: Study E4: Series E5: Slices	V1: EVARCTData	Input: E1: Patient Output: E3: Study E4: Series E5: Slices
C10	T1	T1: email	Event E7: Anatomical Data on update to surgeon


A1: id
A5: birthdate
A2: originalID
A6: sex
E1 : Patient
A7: age
A3: firstName
A8: entryDate
A4: lastName
R4: Has
A1: id
A6: unilateralLegDiameter
A2: dateOfSurgery
A7: unilateralLegLength
A3: brand
E2 : CTScan
A8: controlaterLegDiameter
A4: diameter
A9: controlaterLegLength
A5: length
A10: entryPoint
R1: Has
R6: is
R2: Has
A1: id
A6: time
A2: originalID
A7: referringPhysician
E3: Study
A8: institution
A3: description
A9: additionalPatientHistory
A4: modality
A10: entryDate
A5: date
A1: id
A2: originalSeriesId
E4: Series
A3: description
A4: entryDate
R3: Has
A1: id
A6: height
A2: inOrder
A7:resolution
E5: Slice
A3: fileName
A8: coordinateOrigin
A4: title
A9: bitsPerPixel
A5: width
A10: displayRange
A11:fullMetaData
A12: entryDate
A1: TestiminialID
A2: content
A3: TDate
E8: Testimonial
R7: Provide
A1: userType
A2: firstName
A3: lastName
A4: username
R5: Analysis
E6: User
A5: password
A1: lumenVolume
E7: AnatomicalData
A6: email
A2: partialLumenVolume
A7: institution
A3: skeletalCoordinates
A7: sacArea
A8: idStudy
A8: active
A4: skeletalCurvature
A5: bifurcationAngles
A6: neckAngle
A9: online

DOCUMENT CONTROL

CHANGE HISTORY

Table 1: TLs entries (assigned work and due dates) before releasing to the team (all SQAs)

Revision	Name	Due Date	Description
1.A	DBA Logan Stark	03/06/2015	Complete XXX
1.B	DBA Jainesh Mehta	03/06/2015	Complete YYY
1.X	SQA Linh Tong	03/08/2015	Review Document
1.Y	SQA Paul Miller	03/08/2015	Review Document

Table 2: Entries when work completed (SVN Commit Comment matches Description)

Revision	Name	**Completed Date**	Description **example**
1.A	DBA Logan Stark	03/06/2015	I completed table 2 and added to table 1. **I certify that the TEAM has used "COMPILABLE" ERD LANGUAGE where EACH E, R, and A has a NUMBER and LABEL and they are marked on THIS DOCUMENT.**
1.B	DBA Jainesh Mehta	03/06/2015	I completed Table 1, added Testimonial E, and cleaned up the document. **I certify that the TEAM has used "COMPILABLE" ERD LANGUAGE where EACH E, R, and A has a NUMBER and LABEL and they are marked on THIS DOCUMENT.**
1.X	SQA Linh Tong	03/08/2015	I reviewed Document
1.Y	SQA Paul Miller	03/08/2015	I reviewed Document

Table 3: TL entry for RED DELIVERABLES (SVN Commit Comment matches Description)

Revision	Name	Due Date	Description
2.0	TL Javier Rivera	03/08/2015	I changed Version to 2.0

DOCUMENT STORAGE

This file is stored in **SVN** at https://svn.cs.uh.edu/svn/cosc4351/team4/**DB TEAM PROJECT DELIVERABLES/Data Requirements Specification.doc**.