# CS157A Database Project A Web Application for Study Materials

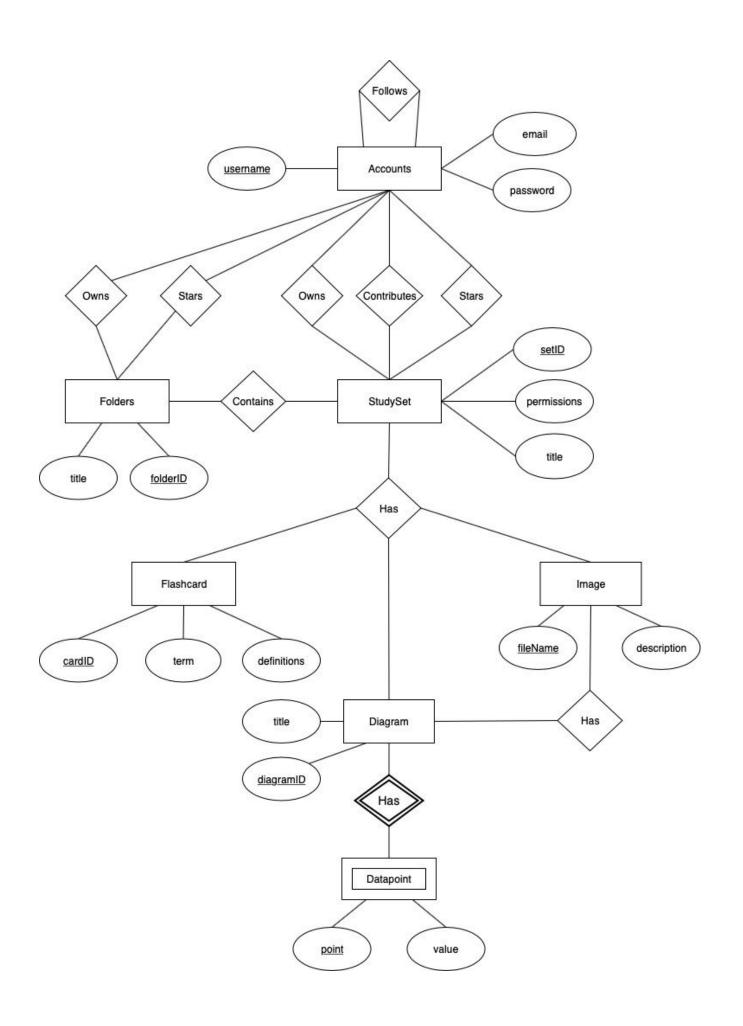
# **Project Design**

Team 29

Jan Rodriguez

Aaron Smith

Rabia Mohiuddin



#### E/R Diagram Breakdown

- Accounts represents user accounts which are identified by username and have attributes for email and password.
- Follows is a relationship matching accounts to itself. An account can follow other accounts to see their study sets.
- Owns is a relationship matching accounts to study set, representing the study set that each account owns. An account can own multiple study sets.
- Contributes is relationship similar to Owns. It represents study sets that a user has contributed to, but doesn't necessarily own. Multiple accounts can contribute to multiple StudySets.
- Stars is a relationship similar to Contributes and Owns between Accounts and StudySets. It represents what study sets a user has stared in order to keep track of.
- StudySet is an entity that represents study sets. Each studySet has Flashcards, Images, and/or Diagrams.
- Folders is an entity that represents folders. Each folder contains StudySets and is identified by folderID.
- Owns is a relationship mapping Accounts to Folders. An Account can own multiple folders.
- Stars is a relationship similar to owns between Folders and Accounts. It represents what Folders a user has stared in order to keep track of.
- Contains is a relationship mapping StudySets to Folders. It represents a StudySets that are associated with Folders.
- Flashcard is an entity with a term and definitions, the two sides of a flashcard, identified by the cardID.
- Image is an entity that simply represents an image that a user can upload to be contained in a study set identified with its fileName and has a description.
- Diagram is an entity that is identified by diagramID. It has an image and can have multiple Datapoints.
- Datapoint is a weak entity that represents points places on the diagram. It is associated with a particular diagram and identified through its point and has a value.

#### Database Model Data

# **Entity Accounts**

	username	email	password	
•	android>apple	facts@gmail.com	root	
	first	test@gmail.com	root	
	second	test@gmail.com	root	
	sjsu	sjsu@gmail.com	root	
	sjsu1	sjsu@gmail.com	root	
	sjsu 10	sjsu@gmail.com	root	
	sjsu11	sjsu@gmail.com	root	
	sjsu2	sjsu@gmail.com	root	
	sjsu3	sjsu@gmail.com	root	
	sjsu4	sjsu@gmail.com	root	
	sjsu5	sjsu@gmail.com	root	
	sjsu6	sjsu@gmail.com	root	
	sjsu7	sjsu@gmail.com	root	
	sjsu8	sjsu@gmail.com	root	
	sjsu9	sjsu@gmail.com	root	
	NULL	NULL	NULL	

# **Entity Flashcards**

	cardID	terms	definitions
١	1	testing	to prove/disprove a guess through experiements
	2	computer science	the study of computers
	100	testing	to prove/disprove a guess through experiements
	101	testing	to prove/disprove a guess through experiements
	102	testing	to prove/disprove a guess through experiements
	104	testing	to prove/disprove a guess through experiements
	200	computer science	the study of computers
	300	testing	to prove/disprove a guess through experiements
	301	testing	to prove/disprove a guess through experiements
	303	testing	to prove/disprove a guess through experiements
	400	testing	to prove/disprove a guess through experiements
	401	testing	to prove/disprove a guess through experiements
	403	testing	to prove/disprove a guess through experiements
	500	computer science	the study of computers
	501	computer science	the study of computers
	503	computer science	the study of computers
	4763	yeeted	past tense of yeet
	NULL	NULL	NULL

# **Entity Folders**

	title	folderID
١	first folder	1
	second folder	2
	first folder	4
	second folder	5
	first folder	6
	second folder	9
	first folder	10
	second folder	11
	first folder	60
	second folder	90
	first folder	100
	second folder	110
	Physics	44678
	Physics	44679
	Physics	446710
	Physics	446712
	Physics	4467100
	Physics	4467120
	NULL	NULL

# **Entity StudySets**

	setID	permissions	title
•	1	admin	First study set
	2	user	Biology Study set
	3	user	Physics Study set
	100	user	test
	101	user	test
	102	user	test
	103	user	test
	104	user	test
	105	user	test
	106	user	test
	107	user	test
	108	user	test
	109	user	test
	110	user	test
	111	user	test
	112	user	test
	113	user	test
	NULL	NULL	NULL

# Entity Image

# **Entity Datapoint**

	fileName	description		point	diagramID	val
١	PNG_10	Image of Nuetron Star	•	1	1	10
	PNG_11	Image of black hole		2	12	20
	PNG_100	Image of Blue Star		3	13	30
	PNG_20	Image of Red Star		4	14	40
	PNG_60	Image of White Dwarf		5	15	60
	PNG_400	Image of Orange Dwarf		6	16	200
	PNG_800	Image of Lightyear Diagram		7	17	400
	JPG_170	Compiler Image		8	110	600
	JPG_18	E/R diagram Image		9	120	800
	JPG_19	CRC cards Image		10	130	1000
	JPG_20	HTTP Image		11	140	1200
	JPG_486	Error Image		12	150	47
	JPG_509	IV Image		13	1000	48
	JPG_123	Stethoscope Image		14	1061	49
	JPG_145	X-Ray Image		15	1062	25
	JPG_168	Retina Image		16	1063	25

# Entity Diagram

	diagramID	title
•	1	Neturon Star
	12	Black Hole
	13	Blue star
	14	Red Star
	15	White dwarf
	16	Orange star
	17	Lightyear diagram
	110	Compiler design
	120	E/R diagram
	130	CRC cards
	140	HTTP Request
	150	Error codes
	1000	IV Drip
	1061	Stethoscope
	1062	X-Ray diagram
	1063	Retina Scans