MongoDB Data Model
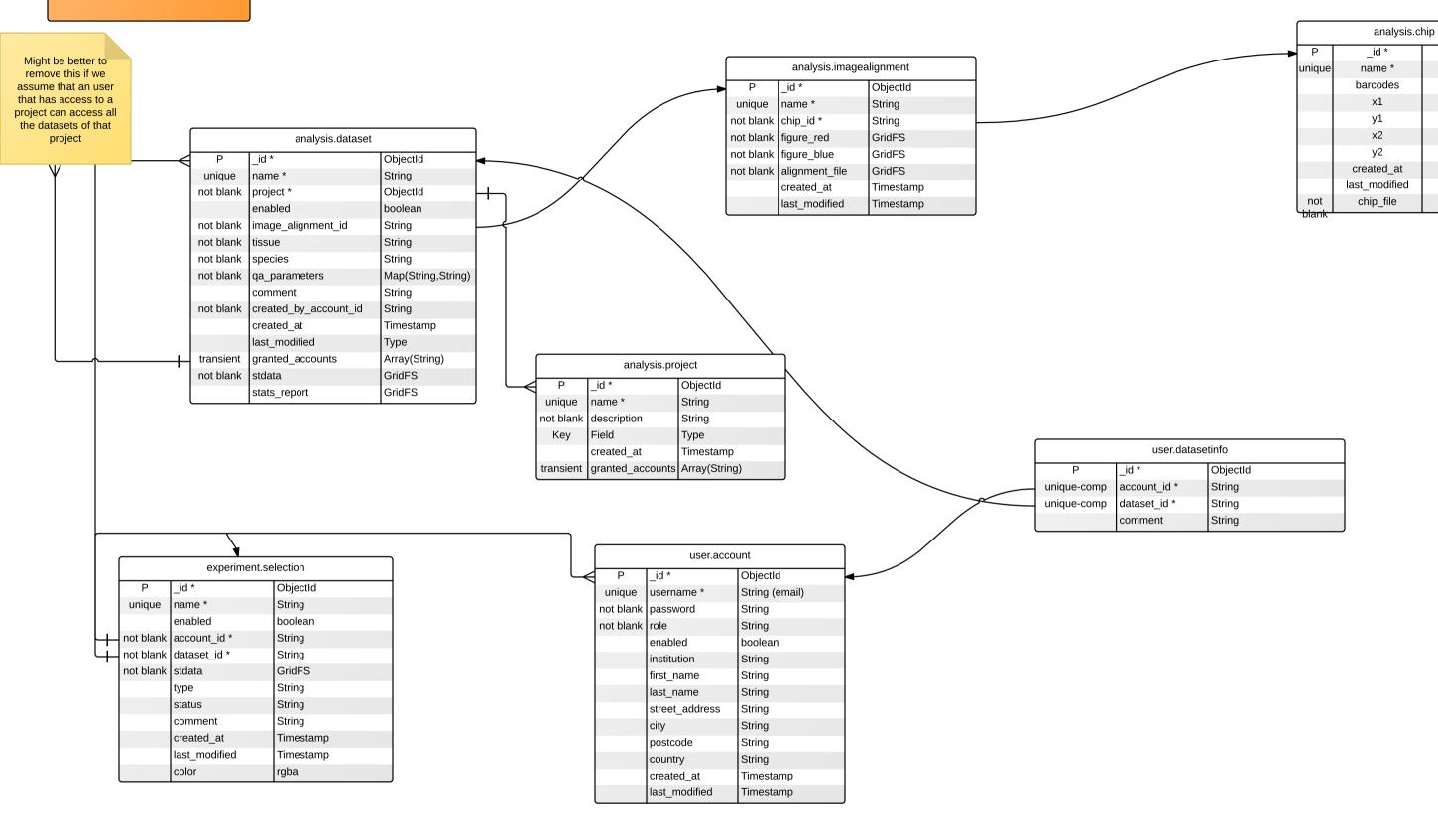
Fields marked with * have individual DB indexes. (unique-compound fields may or may not have individual indexes.)

Might be better to remove this if we assume that an user that has access to a project can access all the datasets of that project

analysis.imagealignment

P	_id *	ObjectId
unique	name *	String
not blank	chip_id *	String
not blank	figure_red	GridFS
not blank	figure_blue	GridFS
not blank	alignment_file	GridFS
	created_at	Timestamp
	last_modified	Timestamp

analysis.chip

P	_id *	ObjectId
unique	name *	String
	barcodes	int
	x1	int
	y1	int
	x2	int
	y2	int
	created_at	timestamp
	last_modified	timestamp
not blank	chip_file	GridFS

analysis.dataset

P	_id *	ObjectId
unique	name *	String
not blank	project *	ObjectId
	enabled	boolean
not blank	image_alignment_id	String
not blank	tissue	String
not blank	species	String
not blank	qa_parameters	Map(String,String)
	comment	String
not blank	created_by_account_id	String
	created_at	Timestamp
	last_modified	Type
transient	granted_accounts	Array(String)
not blank	stdata	GridFS
	stats_report	GridFS

analysis.project

P	_id *	ObjectId
unique	name *	String
not blank	description	String
Key	Field	Type
	created_at	Timestamp
transient	granted_accounts	Array(String)

user.datasetinfo

P	_id *	ObjectId
unique-comp	account_id *	String
unique-comp	dataset_id *	String
	comment	String

experiment.selection

P	_id *	ObjectId
unique	name *	String
	enabled	boolean
not blank	account_id *	String
not blank	dataset_id *	String
not blank	stdata	GridFS
	type	String
	status	String
	comment	String
	created_at	Timestamp
	last_modified	Timestamp
	color	rgba

user.account

P	_id *	ObjectId
unique	username *	String (email)
not blank	password	String
not blank	role	String
	enabled	boolean
	institution	String
	first_name	String
	last_name	String
	street_address	String
	city	String
	postcode	String
	country	String
	created_at	Timestamp
	last_modified	Timestamp

admin.collectionmetadata

P	_id *	ObjectId
unique	collection_name *	String
	since_model_version	String
	last_changed_model_version	String