Model::Main

Clotho Models

BioDesign
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+moduleId: string
+mediaIds: string[]
+strainIds: string[]
+subBioDesignIds: string[]
+superBioDesignId: string
+versionId: string
+polynucleotides: Sequence[]
+type: string (uppercase)

Sample
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+bioDesignId: string
+parameterIds: string[]
+containerId (required): string
+parentSampleIds: string[]

Parameter
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+bioDesignId: string
+derivation: Object
+units (required): string
+value (required): number
+variable (required): string

Module
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+bioDesignId: string
+role (required): string (uppercase)
+featureIds: string[]
+influenceIds: string[]
+parentModuleId: string
+subModuleIds: string[]

Part
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+bioDesignId: string
+sequenceId: string
+assemblyId: string

Version
+_id: ObjectId
+userId: string
+objectId: string
+versionNumber: number
+time: date
+replacementVersionId: string

Container
+_id: ObjectId
+name (required): string
+description: string
+type: string [BEAKER, BOX FLASK, FRIDGE, INCUBATOR, PLATE, RACK, TUBE, WELL]
+parameterIds: string[]
+coordinates: number[]

Sequence
+_id: string
+name (required): string
+description: string
+userId (required): string
+displayId: string
+featureId: string
+partId: string
+accession: string
+isLinear: boolean
+isSingleStranded: boolean
+sequence: string
+submissionDate: date

Assembly
+_id: ObjectId
+userId: string
+subBioDesignIds: string[]
+superSubPartId: string

Annotation
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+sequenceId (required): string
+start (required): integer
+end (required): integer
+isForwardStrand (required): boolean

Feature
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+role (required): string (uppercase)
+annotationId (required): string
+superAnnotationId (required): string
+genBankId: string
+moduleId: string
+swissProtId: string
+riskGroup: number

BioDesign
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+moduleId: string
+mediaIds: string[]
+strainIds: string[]
+subBioDesignIds: string[]
+superBioDesignId: string
+versionId: string
+polynucleotides: Sequence[]
+type: string (uppercase)

Parameter
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+bioDesignId: string
+derivation: Object
+units (required): string
+value (required): number
+variable (required): string

Version
+_id: ObjectId
+userId: string
+objectId: string
+versionNumber: number
+time: date
+replacementVersionId: string

Part
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+bioDesignId: string
+sequenceId: string
+assemblyId: string

Module
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+bioDesignId: string
+role (required): string (uppercase)
+featureIds: string[]
+influenceIds: string[]
+parentModuleId: string
+subModuleIds: string[]

Sequence
+_id: string
+name (required): string
+description: string
+userId (required): string
+displayId: string
+featureId: string
+partId: string
+accession: string
+isLinear: boolean
+isSingleStranded: boolean
+sequence: string
+submissionDate: date

Annotation
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+sequenceId (required): string
+start (required): integer
+end (required): integer
+isForwardStrand (required): boolean

Feature
+_id: ObjectId
+name (required): string
+description: string
+userId (required): string
+displayId: string
+role (required): string (uppercase)
+annotationId (required): string
+superAnnotationId (required): string
+genBankId: string
+moduleId: string
+swissProtId: string
+riskGroup: number