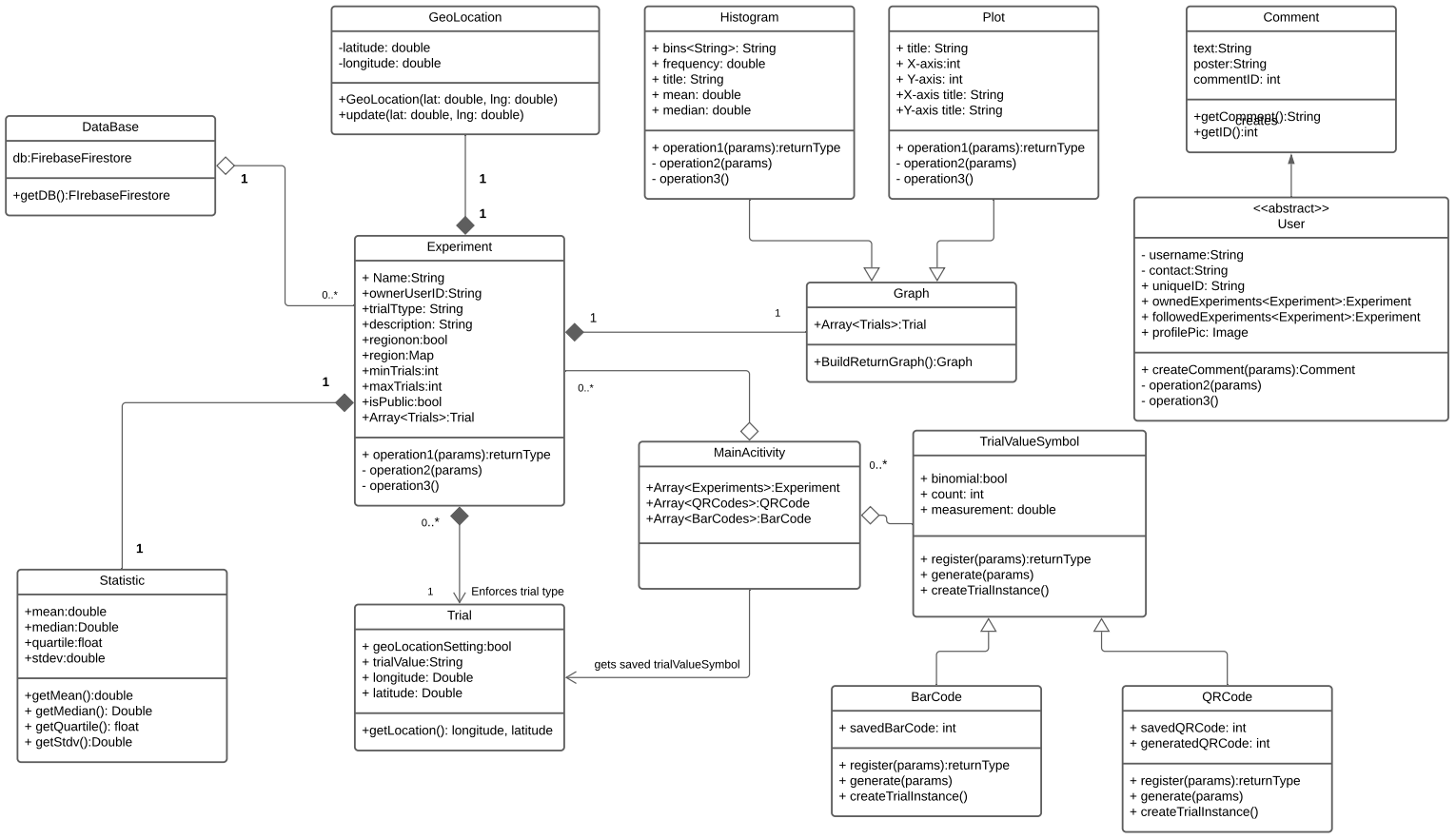
GeoLocation
-latitude: double
-longitude: double
+GeoLocation(lat: double, lng: double)
+update(lat: double, lng: double)
Histogram
+ bins<String>: String
+ frequency: double
+ title: String
+ mean: double
+ median: double
+ operation1(params):returnType
- operation2(params)
- operation3()
Plot
+ title: String
+ X-axis:int
+ Y-axis: int
+X-axis title: String
+Y-axis title: String
+ operation1(params):returnType
- operation2(params)
- operation3()
Comment
text:String
poster:String
commentID: int
+getComment():String
+getID():int
DataBase
db:FirebaseFirestore
+getDB():FIrebaseFirestore
Experiment
+ Name:String
+ownerUserID:String
+trialTtype: String
+description: String
+regionon:bool
+region:Map
+minTrials:int
+maxTrials:int
+isPublic:bool
+Array<Trials>:Trial
+ operation1(params):returnType
- operation2(params)
- operation3()
Graph
+Array<Trials>:Trial
+BuildReturnGraph():Graph
<<abstract>>
User
- username:String
- contact:String
+ uniqueID: String
+ ownedExperiments<Experiment>:Experiment
+ followedExperiments<Experiment>:Experiment
+ profilePic: Image
+ createComment(params):Comment
- operation2(params)
- operation3()
MainAcitivity
+Array<Experiments>:Experiment
+Array<QRCodes>:QRCode
+Array<BarCodes>:BarCode
TrialValueSymbol
+ binomial:bool
+ count: int
+ measurement: double
+ register(params):returnType
+ generate(params)
+ createTrialInstance()
Statistic
+mean:double
+median:Double
+quartile:float
+stdev:double
+getMean():double
+ getMedian(): Double
+ getQuartile(): float
+ getStdv():Double
Trial
+ geoLocationSetting:bool
+ trialValue:String
+ longitude: Double
+ latitude: Double
+getLocation(): longitude, latitude
BarCode
+ savedBarCode: int
+ register(params):returnType
+ generate(params)
+ createTrialInstance()
QRCode
+ savedQRCode: int
+ generatedQRCode: int
+ register(params):returnType
+ generate(params)
+ createTrialInstance()
1
1
1
0..*
1
1
0..*
1
0..*
0..*
1
Enforces trial type
gets saved trialValueSymbol