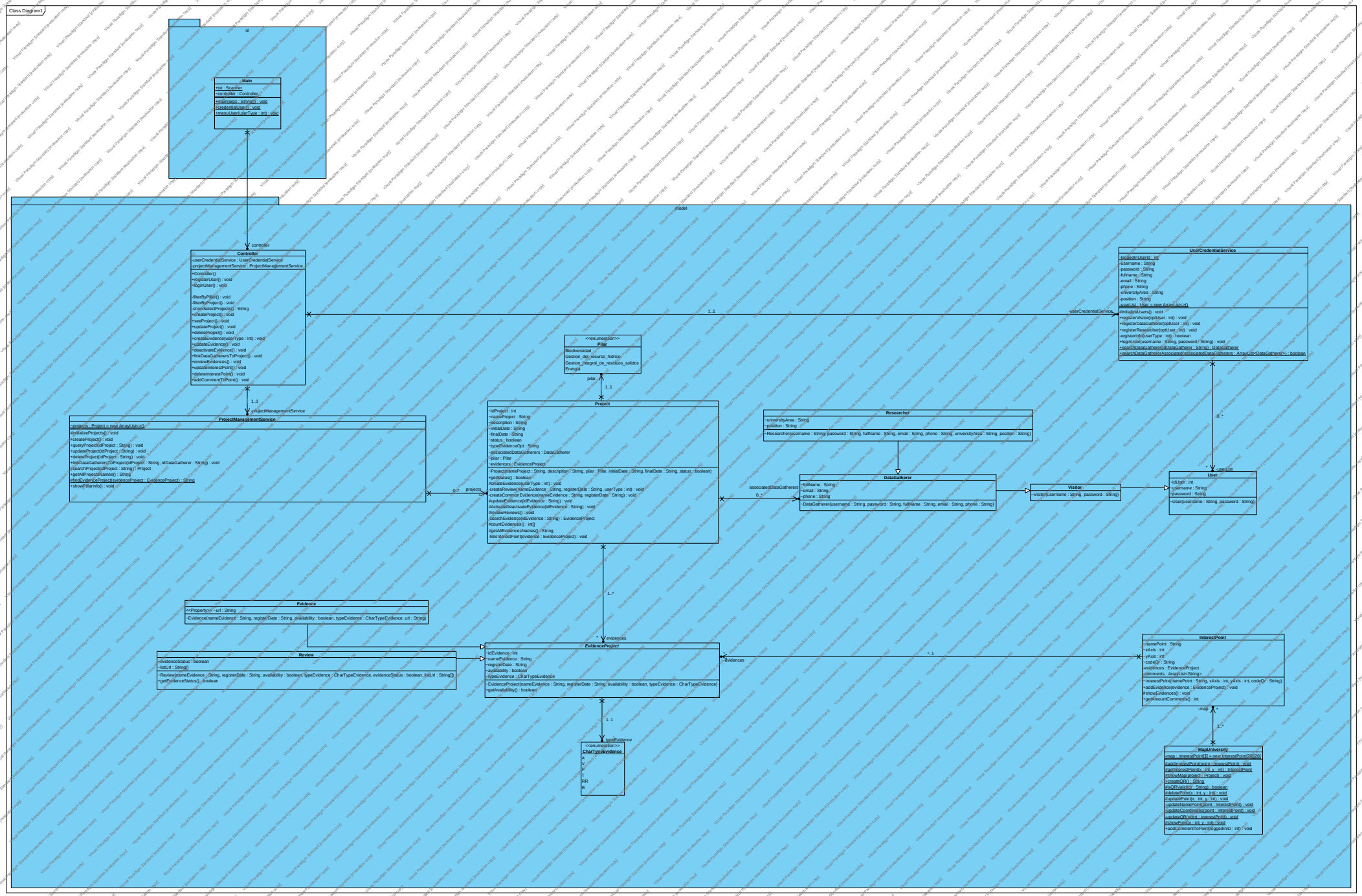
Class Diagram1
ui
Main
+txt : Scanner
+controller : Controller
+mainArgs : String[] : void
+credentialUser() : void
+menuUser(userType : int) : void
model
controller
Controller
-userCredentialService : UserCredentialService
-projectManagementService : ProjectManagementService
+Controller()
+registerUser() : void
+loginUser() : void
+filterByPilar() : void
+filterBy(Pilar) : void
-showSelectProjects() : String
+createProject() : void
+seeProject() : void
+updateProject() : void
+deleteProject() : void
+createEvidence(userType : int) : void
+updateEvidence() : void
+deactivateEvidence() : void
+linkDataGathererisToProject() : void
+reviewEvidences() : void
+updateInterestPoint() : void
+deleteInterestPoint() : void
+addCommentToPoint() : void
1..1
projectManagementService
ProjectManagementService
-projects : Project = new ArrayList<>()
+initializeProjects() : void
+createProject() : void
+queryProject(idProject : String) : void
+updateProject(idProject : String) : void
+deleteProject(idProject : String) : void
+linkDataGathererisToProject(idProject : String, idDataGatherer : String) : void
+searchProject(idProject : String) : Project
+getAllProjectsNames() : String
+findEvidenceInProject(evidenceProject : EvidenceProject) : String
+showPilarInfo() : void
0..*
projects
<<enumeration>>
Pilar
Biodiversidad
Gestion_del_recurso_hidrico
Gestion_integral_de_residuos_solidos
Energia
pilar
1..1
Project
-idProject : int
-nameProject : String
-description : String
-initialDate : String
-finalDate : String
-status : boolean
-typeEvidenceOpt : String
-associatedDataGatherers : DataGatherer
-pilar : Pilar
-evidences : EvidenceProject
+Project(nameProject : String, description : String, pilar : Pilar, initialDate : String, finalDate : String, status : boolean)
+getStatus() : boolean
+createEvidence(userType : int) : void
+createReview(nameEvidence : String, registerDate : String, userType : int) : void
+createCommentEvidence(nameEvidence : String, registerDate : String) : void
+updateEvidence(idEvidence : String) : void
#ActivateDeactivateEvidence(idEvidence : String) : void
#reviewReviews() : void
+searchEvidence(idEvidence : String) : EvidenceProject
#countEvidences() : int[]
#getAllEvidencesNames() : String
#linkInterestPoint(evidence : EvidenceProject) : void
associatedDataGatherers
0..*
1..*
evidences
Researcher
-universityArea : String
-position : String
-Researcher(username : String, password : String, fullName : String, email : String, phone : String, universityArea : String, position : String)
DataGatherer
-fullName : String
-email : String
-phone : String
-DataGatherer(username : String, password : String, fullName : String, email : String, phone : String)
Visitor
-Visitor(username : String, password : String)
UserCredentialService
-loggedInUserId : int
-username : String
-password : String
-fullname : String
-email : String
-phone : String
-universityArea : String
-position : String
-userList : User = new ArrayList<>()
+initializeUsers() : void
+registerVisitor(optUser : int) : void
+registerDataGatherer(optUser : int) : void
+registerResearcher(optUser : int) : void
-registerInfo(userType : int) : boolean
+loginUser(username : String, password : String) : void
+searchDataGatherer(idDataGatherer : String) : DataGatherer
+searchDataGathererAssociated(associatedDataGatherers : ArrayList<DataGatherer>) : boolean
1..1
userCredentialService
0..*
-userList
User
-idUser : int
-username : String
-password : String
-User(username : String, password : String)
Evidence
<<Property>> -url : String
-Evidence(nameEvidence : String, registerDate : String, availability : boolean, typeEvidence : CharTypeEvidence, url : String)
Review
-evidenceStatus : boolean
-listUrl : String[]
-Review(nameEvidence : String, registerDate : String, availability : boolean, typeEvidence : CharTypeEvidence, evidenceStatus : boolean, listUrl : String[])
+getEvidenceStatus() : boolean
EvidenceProject
-idEvidence : int
-nameEvidence : String
-registerDate : String
-availability : boolean
-typeEvidence : CharTypeEvidence
-EvidenceProject(nameEvidence : String, registerDate : String, availability : boolean, typeEvidence : CharTypeEvidence)
+getAvailability() : boolean
1..1
typeEvidence
<<enumeration>>
CharTypeEvidence
A
V
C
T
RR
R
InterestPoint
-namePoint : String
-xAxis : int
-yAxis : int
-codeQr : String
-evidences : EvidenceProject
-comments : ArrayList<String>
-InterestPoint(namePoint : String, xAxis : int, yAxis : int, codeQr : String)
+addEvidence(evidence : EvidenceProject) : void
+showEvidences() : void
+getAmountComments() : int
evidences
* 1
-map
1..*
MapUniversity
-map : InterestPoint[] = new InterestPoint[20][20]
+addInvalidPoint(point : InterestPoint) : void
+getInterestPoint(x : int, y : int) : InterestPoint
+showMap(project : Project) : void
+createQR() : String
+isQRValid(qr : String) : boolean
+deletePoint(x : int, y : int) : void
+updatePoint(x : int, y : int) : void
+updateNamePoint(point : InterestPoint) : void
+updateCoordInvalid(point : InterestPoint) : void
+updateQR(point : InterestPoint) : void
+showPoint(x : int, y : int) : void
+addCommentToPoint(loggedInID : int) : void