## Sostenibilidad Ambiental traceability table

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Traceability table				
Functional requirement	Class	Methods		
RF1 - Register 'Visitor' user	Main	+main(args : String[]) : void +credentialUser() : void		
	Controller	+registerUser() : void		
	UserCredentialServi ce	+registerVisitor(optUser : int) : void -registerInfo(userType : int) : boolean		
	User	~User(username : String, password : String)		
	Visitor	~Visitor(username : String, password : String)		
RF2 - Register 'Data Gatherer' User	Main	+main(args : String[]) : void +credentialUser() : void		
	Controller	+registerUser() : void		
	UserCredentialServi ce	+registerVisitor(optUser : int) : void -registerInfo(userType : int) : boolean		
	User	~User(username : String, password : String)		
	DataGatherer	~DataGatherer(username : String, password : String, fullName : String, email : String, phone : String)		
RF3 - Register 'Researcher' User	Main	+main(args : String[]) : void +credentialUser() : void		
	Controller	+registerUser() : void		
	UserCredentialServi ce	+registerVisitor(optUser : int) : void -registerInfo(userType : int) : boolean		
	User	~User(username : String, password : String)		
	Researcher	~Researcher(username : String, password : String, fullName : String, email : String, phone : String, universityArea : String, position : String)		
RF4 - Link Collectors to	Main	+menuUser(userType : int) : void		
a Project	Controller	+linkDataGatherersToProject() : void		
	UserCredentialServi ce	+searchDataGatherer(idDataGatherer : String) : model.DataGatherer +searchDataGathererAssociated(associatedDataGatherers : ArrayList <model.datagatherer>) : boolean</model.datagatherer>		
	ProjectManagement Service	+linkDataGatherersToProject(idProject : String, idDataGatherer : String) : void		
	DataGatherer	+getIdUser(): int		

RF5 - Approve 'Review' Type Evidences	Main	+menuUser(userType : int) : void
	Controller	+reviewEvidences(): void
	Review	+setEvidenceStatus(evidenceStatus : boolean) : void
	Project	+getUnreviewedReviews(): java.util.ArrayList <model.review> #reviewReviews(): void</model.review>
RF6 - Create Comments	Main	+menuUser(userType : int) : void
	Comment	+getUserName() : String +getCommentText() : string
	Interest point	+addComment(point : model.InterestPoint) : void
RF7 - Register Projects	Main	+menuUser(userType : int) : void
	Controller	+createProject() : void
	Project	~Project(nameProject : String, description : String, pilar : model.Pilar, initialDate : String, finalDate : String, status : boolean)
	ProjectManagement Service	+createProject() : void
RF8 – Update project	Main	+menuUser(userType : int) : void
	Controller	+createProject() : void
	Project	All attributes setters
	ProjectManagement Service	+updateProject(idProject : String) : void
RF9 – Delete project	Main	+menuUser(userType : int) : void
	Controller	+deleteProject() : void
	ProjectManagement Service	+deleteProject(idProject : String) : void
RF10 – Register of	Main	+menuUser(userType : int) : void
project's evidence	Controller	+createEvidence(userType : int) : void
	Project	#createEvidence(userType : int) : void -createCommonEvidence(nameEvidence : String, registerDate : String) : void
	Evidence	~Evidence(nameEvidence : String, registerDate : String, availability : boolean, typeEvidence : model.CharTypeEvidence, url : String)
	EvidenceProject	~EvidenceProject(nameEvidence : String, registerDate : String, availability : boolean, typeEvidence : model.CharTypeEvidence)

Main	Г	Ī	T
Controller		Main	+menuUser(userType : int) : void
CreateReview(nameEvidence: String, registerDate: String, userType: int): void	evidences review's type	Controller	+createEvidence(userType : int) : void
String, availability: boolean, typeEvidence: model.CharTypeEvidence, evidenceStatus: boolean, listUr: String[]]   EvidenceProject		Project	-createReview(nameEvidence : String,
registerDate: String, availability: boolean, typeEvidence: model.CharTypeEvidence)   RF12 - Modify evidence		Review	String, availability: boolean, typeEvidence: model.CharTypeEvidence, evidenceStatus:
Controller		EvidenceProject	registerDate : String, availability : boolean,
Project #updateEvidence(idEvidence : String) : void  Review +setEvidenceStatus(evidenceStatus : boolean) : void  Evidence +setUrl(url : string) : void  EvidenceProject +setNameEvidence(nameEvidence : string) : void +setRegisterDate(registerDate : string) : void +setRegisterDate(registerDate : string) : void +setAvailability(availability : boolean) : void  RF13 - Deactivate evidence  Main +menuUser(userType : int) : void  Controller +deactivateEvidence() : void  EvidenceProject +getAvailability() : boolean  Project #ActivateDeactivateEvidence(idEvidence : String) : void  RF14 - Register of interest's points  Main +menuUser(userType : int) : void  MapUniversity #addInterestPoint(point : model.InterestPoint) : void  InterestPoint -InterestPoint(namePoint : String, xAxis : int, yAxis : int, codeQr : String) #addEvidence(evidence : model.EvidenceProject) : void  Project -InikInterestPoint(evidence : model.EvidenceProject) : String  #findEvidenceProject() : String  #findEvidenceProject() : String  #findEvidenceProject) : String  #findEvidenceProject) : String	RF12 – Modify evidence	Main	+menuUser(userType : int) : void
Review +setEvidenceStatus(evidenceStatus: boolean): void  Evidence +setUrl(url: string): void  EvidenceProject +setNameEvidence(nameEvidence: string): void +setRegisterDate(registerDate: string): void +setRegisterDate(registerDate: string): void +setAvailability(availability: boolean): void   RF13 - Deactivate evidence  Main +menuUser(userType: int): void  Controller +deactivateEvidence(): void  EvidenceProject +getAvailability(): boolean  Project #ActivateDeactivateEvidence(idEvidence: String): void   RF14 - Register of interest's points #addInterestPoint(point: model.InterestPoint): void  MapUniversity #addInterestPoint(point: model.InterestPoint): void  InterestPoint -InterestPoint(namePoint: String, xAxis: int, yAxis: int, codeQr: String) #addEvidence(evidence: model.EvidenceProject): void   Project -InkInterestPoint(evidence: model.EvidenceProject): void  ProjectManagement #findEvidenceProject(evidenceProject: model.EvidenceProject): String  RF15 - Modify interest's  MapUniversity #updatePoint(x: int, y: int): void		Controller	+updateEvidence(): void
void		Project	#updateEvidence(idEvidence : String) : void
EvidenceProject		Review	· · · · · · · · · · · · · · · · · · ·
+setRegisterDate(registerDate: string): void +setAvailability(availability: boolean): void  RF13 - Deactivate evidence  Main		Evidence	+setUrl(url : string) : void
evidence    Controller		EvidenceProject	+setRegisterDate(registerDate : string) : void
Controller		Main	+menuUser(userType : int) : void
Project #ActivateDeactivateEvidence(idEvidence : String) : void  RF14 - Register of interest's points  Main +menuUser(userType : int) : void  MapUniversity #addInterestPoint(point : model.InterestPoint) : void  InterestPoint ~InterestPoint(namePoint : String, xAxis : int, yAxis : int, codeQr : String) #addEvidence(evidence : model.EvidenceProject) : void  Project -linkInterestPoint(evidence : model.EvidenceProject) : void  ProjectManagement  #findEvidenceProject(evidenceProject : model.EvidenceProject) : String  RF15 - Modify interest's points  MapUniversity #updatePoint(x : int, y : int) : void	evidence	Controller	+deactivateEvidence() : void
RF14 - Register of interest's points    Main		EvidenceProject	+getAvailability(): boolean
Interest's points    MapUniversity		Project	` ` `
MapUniversity		Main	+menuUser(userType : int) : void
yAxis: int, codeQr: String) #addEvidence(evidence: model.EvidenceProject) : void  Project -linkInterestPoint(evidence: model.EvidenceProject): void  ProjectManagement Service #findEvidenceProject(evidenceProject: model.EvidenceProject): String  RF15 - Modify interest's points #updatePoint(x:int, y:int): void	interest's points	MapUniversity	, ,
model.EvidenceProject) : void  ProjectManagement  #findEvidenceProject(evidenceProject : model.EvidenceProject) : String  RF15 - Modify interest's  #updatePoint(x : int, y : int) : void  points		InterestPoint	yAxis : int, codeQr : String) #addEvidence(evidence : model.EvidenceProject)
RF15 - Modify interest's points   Service model.EvidenceProject) : String  #updatePoint(x : int, y : int) : void		Project	
points			
	· · · · · · · · · · · · · · · · · · ·	MapUniversity	#updatePoint(x : int, y : int) : void
		InterestPoint	All attributes setters

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	Controller	+updateInterestPoint() : void
	Main	+menuUser(userType : int) : void
RF16 - Delete interest's points	MapUniversity	#deletePoint(x : int, y : int) : void
	Controller	+deleteInterestPoint(): void
	Main	+menuUser(userType : int) : void
RF17 - Map visualization	MapUniversity	#showMap(project : model.Project) : void
	Controller	+visualizeMap() : void -filterByPillar() : void -filterByProject() : void
	Main	+menuUser(userType : int) : void
RF18 - Query project	Main	+menuUser(userType : int) : void
	Controller	+seeProject(): void
	ProjectManagement Service	#searchProject(idProject : String) : model.Project +queryProject(idProject : String) : void
	Project	All attributes getters
RF19 – Query pillar	Main	+menuUser(userType : int) : void
	Controller	+visualizeMap() : void -filterByPillar() : void
	Project	All attributes getters
	ProjectManagement Service	#searchProject(idProject : String) : model.Project +queryProject(idProject : String) : void +showPillarInfo() : void
R20 – Query interest's	Main	+menuUser(userType : int) : void
point	Controller	+visualizeMap() : void
	MapUniversity	#showPoint(x : int, y : int) : void
	InterestPoint	All attributes getters +getAmountComments(): int #showEvidences(): void -searchEvidence(idEvidence: String): model.EvidenceProject +showComments(point: model.InterestPoint): void