Traceability Table

Samuel J. Rengifo A00404150

Functional Requirement	Class Name	Method name
FR0 Register an application, register area, register collaborator	Main **Class**	registerMenu() : void
		registerApplication() : void
		registerArea(collaboratorArea Selection : int) : void
		registerCollaborator() : void
	Controller **Class**	registerApplication(shortDescription : String, collaboratorName : String, applicationCode : String) : String
		addArea(areaName : String, areaInternalCode : String, areaTempTypeSelection : int) : String
		addCollaborator(collaboratorIdDocument : String, collaboratorFullName : String, collaboratorEmail : String, collaboratorExtensionNumber : int, areaInternalCode : String)
	Application **Class**	Application(registrationDate : Date, shortDescription : String,applicationStatus : Status, applicationCode : String, applicationCollaborator : Collaborator,applicationManagementDate : Date)
	AreaTransformation **Class**	AreaTransformation(areaName : String, areaInternalCode : String)
	ApplicantArea **Class**	AreaApplicant(areaName : String, areaInternalCode : String, officeBelonging :

		String, collaboratorResponsible : Collaborator)
	Area **Class**	Area(areaName : String, internalCode : int)
	Collaborator **Class**	Collaborator(collaboratorIdDo cument : String, collaboratorFullName : String, collaboratorEmail : String, collaboratorExtensionNumber : int, collaboratorArea : Area)
FR1 Change the status of an application	Main **Class**	changeApplicationStatus() : void
	Controller **Class**	modifyApplicationStatus(appli cationCode : String, applicationStatusSelection : int)
	Application **Class**	setApplicationManagementD ate(applicationManagementD ate : Date) setApplicationStatus(applicati onStatus : Status)
FR2 Register projects of each type	Main **Class**	registerProjectMenu() : void registerProject(projectSelecti on : int)
	Controller **Class**	addProject(applicationCode : String, areaInternalCode : String, projectCode : String, projectName : String, projectStatusSelection : int, projectPrioritySelection : int, projectLeaderName : String, processName : String, projectImpactedCommunityS election : int, projectTypeSelection : int)
		addProject(applicationCode : String, areaInternalCode : String, projectCode : String, projectName : String, projectStatusSelection : int,

		projectPrioritySelection : int, projectLeaderName : String, processId : String)
	Area **Class**	addProject(projectKnowledge Management : ProjectKnowledgeManageme nt) : void
		addProject(projectProcessTra nsformationImprovement : ProjectProcessTransformatio nImprovement)
	ProjectKnowledgeManageme nt **Class**	ProjectKnowledgeManageme nt(projectCode : String, projectName : String, projectStatus : Status, projectClassificationDate : Date, projectLeader : Collaborator, projectPriority : ProjectPriority, estimatedProjectEndDate : Date, endProjectDate : Date, registrationProjectDate : Date, processName : String, impactedCommunity : ImpactedCommunity, projectType : ProjectType)
	ProjectProcessTransformatio nImprovement **Class**	ProjectProcessTransformatio nImprovement(projectCode : String, projectName : String, projectStatus : Status, projectClassificationDate : Date, projectLeader : Collaborator, projectPriority : ProjectPriority, estimatedProjectEndDate : Date, endProjectDate : Date, registrationProjectDate : Date, processId : String)
FR3 Finish or close a project	Main **Class**	closeProject() : void
	Controller **Class**	closeProject(projectCode : String) : String
	Project **Class**	setEndProjectDate(endProjec tDate : Date) : void

FR4 View project information as matrix	Main **Class**	matrixProjectView() : void
	Controller **Class**	matrixProject(areaInternalCode : String) : String
	Collaborator **Class**	getCollaboratorFullName() : String
		getCollaboratorArea(): Area
	Area **Class**	getProjectList() : ArrayList<Project>
	Project **Class**	getProjectCode() : String
		getEstimatedProjectEndDate() : Date
		getProjectPriority() : ProjectPriority
	ProjectPriority **Enum**	getValue() : String
FR5 Query detailed information about a project	Main **Class**	showProject() : void
	Controller **Class**	showProject(projectCode : String) : String
	Area **Class**	getProjectList() : ArrayList<Project>
	Project **Class**	getProjectCode() : String
		toString() : String
	ProjectKnowledgeManagement **Class**	toString() : String
	ProjectProcessTransformationImprovement **Class**	toString() : String
FR6 Query efficiency	Main **Class**	efficiencyMenu() : void
		efficiencyCollaborator() : void
		efficiencyProject() : void
		efficiencyApplication() : void
	Controller **Class**	efficiencyCollaborator(collaboratorIdDocument : String, monthSelection ; int)

		efficiencyProject(projectCode : String) : String
		efficiencyApplication(applicationCode : String) : String
	Collaborator **Class**	calculateCollaboratorEfficiency(projectFinishedCounter : int, projectsAmount : int) : double
	Project **Class**	calculateProjectEfficiency() : double
	Application **Class**	calculateApplicationEfficiency() : double
FR7 Query the global work indicators of the Transformation/Process Improvement area	Main **Class**	globalWorkIndicatorsMenu() : void
		indicatorTypePriority() : void
		indicatorProjectLed() : void
		indicatorApplicationReceived() : void
	Controller **Class**	indicatorTypePriority() : String
		indicatorProjectLed() : String
		indicatorApplicationReceived() : String
FR8 Generate test objects	Main **Class**	createTestObjects() : void
	Controller **Class**	createTestObjects() : String