

ITEM	VALUE
UseCase	[business]Assemble Retrieval Process
Summary	The techniques chosen are assembled inside our generic process. The assembled process will be customized according to the scenario where our process has been applied.
Actor	User
Precondition	Techniques Selected
Postcondition	Process Assembled
Base Sequence	1. User assemble techniques in the generic process. 2. User define and assign tasks for the team members to perform in the retrieval process.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Check Features Artifacts
Summary	The features artifacts are checked for inconsistencies.
Actor	Feature Tester
Precondition	
Postcondition	Features checked
Base Sequence	1. Feature Tester check feature artifacts for inconsistencies. 2. Feature Tester register inconsistencies into a report.
Branch Sequence	
Exception Sequence	2.a No inconsistencies are found.
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Collect Artifact Information
Summary	During this activity the information about artifacts types (extensions, formats, structures, et c) is collected and registered. This information can be used to decide which extraction techniques can be used.
Actor	Architect
Precondition	
Postcondition	Artufact infromation collected.
Base Sequence	1.Architect analyzes the artifacts. 1.Architect compiles the information into a single artifact.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Collect Domain Information
Summary	During this activity, domain information is collected and registered. This information can be used as an input for some extraction techniques. Domain artifacts may contain information such as products description, user comments, documentation of systems in specific domain , and domain analysis.
Actor	Domain Engineer
Precondition	
Postcondition	Domain information collected
Base Sequence	1. Domain Engineer analyzes the domain artifacts. 2. Domain Engineer registers the domain information in the report.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Collect Requirements Information
Summary	During this activity the requirement information is collected and registered. Requirements artifacts may be Requirements List, Use Cases, User Stories or any kind of requirements specification.
Actor	Analyst
Precondition	
Postcondition	Requirements Information Collected
Base Sequence	1. Analyst analyzed requirements artifacts. 2. Analyst compiles requirements artifacts into a single document.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Document Process Experience
Summary	Reports are created to document the experience of the process execution. These reports may be used in future re-executions of the process, reducing cost and effort.
Actor	User
Precondition	Project was executed.
Postcondition	
Base Sequence	1. User creates register the process experience in the report. 2. User closes the project
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Execute Retrieval Process
Summary	The assembled process is executed according to the techniques selected. Feature artifacts are documented in a structured way. These artifacts will depend on the techniques selected .
Actor	Feature Retriever
Precondition	
Postcondition	Retrieval process executed
Base Sequence	1. Feature retriever applies the feature retrieval techniques according to the assembled process. 2. Feature retriever document the feature artifacts. 3. Feature retriever generates the feature model.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Manage Project
Summary	The project has to be managed. Project name, description schedule and participants have to be included.
Actor	User
Precondition	
Postcondition	Project is Created
Base Sequence	1. User Creates a project. 2. User Gives a Name and Description to project. 3. User Defines a Schedule for the project. 4. User adds participants to the project.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Manage Team
Summary	Information about the team which will execute the process is collected. This information includes experiences, skills, knowledge and preferences of each member. The information is registered in a document, and stored in a database. This document must have one section for each interviewed member and must contain identification information such as: Name, email, company role, etc. Roles are defined based on the information collected. The possible roles are: Domain Engineer, Architect, Analyst, Developer, Feature Tester and Feature Retriever; All those roles must be assigned to at least one team members and a team member can have more than one role. However, a person cannot be Feature Retriever and Feature Tester. Also, a role can be performed by more than one person.
Actor	User
Precondition	Project was Created
Postcondition	Team information registered
Base Sequence	1. User register the information about each team member. 2. User assign roles to each team member.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Register Architectural Information
Summary	During this activity architectural information is collected and registered. This information may include: design patterns, architectural patterns. The artifacts used to register these can be class diagrams, state machine diagrams or even activity diagrams.
Actor	Architect
Precondition	
Postcondition	Architectural Information registered
Base Sequence	1.Architect analyzes the architecture artifacts. 1.Architect compiles the information into a single artifact.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Register Dev. Information
Summary	During this activity the information about the developed products will be collected and registered. This information may include programming patterns, programming and development paradigms
Actor	Developer
Precondition	
Postcondition	Development information collected
Base Sequence	1. Developer analyze development artifacts. 2. Developer compiles the information into a single artifact.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Register Domain Constraints and Vocabulary
Summary	During this activity a list of constraints and terms related to the system domain is collected and registered. These constraints may be collected in the system business rules or even non-functional requirements.
Actor	Domain Engineer
Precondition	
Postcondition	Domain Vocabulary And Constraints list created.
Base Sequence	1. Domain Engineer analyzes the domain artifacts. 2. Domain Engineer creates a domain constraints list. 2. Domain Engineer creates a domain vocabulary.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Register Technological Information
Summary	During this activity information about technologies used in each product are collected and registered. This information can be used to decide which is the best extraction technique or exclude the use of some techniques as well.
Actor	Developer
Precondition	
Postcondition	Technological Information collected.
Base Sequence	1. Developer analyzes technological artifacts. 2. Developer compiles the information into a single artifact.
Branch Sequence	
Exception Sequence	
Sub UseCase	
Note	

ITEM	VALUE
UseCase	[business]Select Strategies and Techniques
Summary	The information collected previously is analyzed to help the selection of strategies and techniques for feature retrieval.
Actor	User
Precondition	
Postcondition	Techniques Selected
Base Sequence	<ol style="list-style-type: none"> 1. User selects a retrieval technique is to be analyzed. 2. User analyzes practical examples of the technique found in the literature. 3. User compares if the scenarios of the practical examples are share similarities with current scenario. 4. User checks if the product artifacts available match with artifacts used for the technique. 5. User includes the technique. 6. User register the reasons.
Branch Sequence	<ol style="list-style-type: none"> 6.a User wants to add more techniques. 6.b. Go back to 1.
Exception Sequence	<ol style="list-style-type: none"> 5.a. The technique is not included. 5.b. User register the reasons. 5.c Go Back to 1.
Sub UseCase	
Note	