## **Process Report**

Project: Eyal-Salman203

Process: Retrieval Process

Created by: Luciano

Date: 05-27-2020

1		Phase:	Extract
		Activity:	Divide features with LSI
		Description:	Use LSI to divide features and classes into
			common and variable partitions;
		Retrieval	Latent Semantic Indexing
		Technique:	
	Artifact:1	Input	
		Name:	Objected-oriented Source Code
		Туре	Development
		Description:	Souce code of the argoUML
		Extension:	.java
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-24-2020 by Luciano
	Artifact:2	Input	
		Name:	Feature Description
		Туре	Domain
		Description:	Description of features of the argoUML system.
		Extension:	.doc
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-24-2020 by Luciano
	Artifact:3	Output	
		Name:	Common and variable partitions
		Туре	Development
		Description:	Classes that implement common and optional
			features
		Extension:	.lsi
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-27-2020 by Luciano
2		Phase:	Extract
		Activity:	Fragment variable partitions with FCA
		Description:	Fragment variable partitions into minimal
			disjoint sets using FCA
		Retrieval	Formal Concept Analysis
		Technique:	
	Artifact:1	Input	
		Name:	Objected-oriented Source Code
		Type	Development

		Description:	Souce code of the argoUML
		Extension:	.java
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-24-2020 by Luciano
	Artifact:2	Input	05-24-2020 by Eucland
	Ai tilact.2	Name:	Feature Description
			Domain
		Type	
		Description: Extension:	Description of features of the argoUML system.  .doc
		Link (url):	https://github.com/argouml-tigris-org/argouml
	Artifact:3	Last Update:	05-24-2020 by Luciano
	Artifact:3	Input	Common and revielle neutriens
		Name:	Common and variable partitions
		Type	Development Classes that involves and autional
		Description:	Classes that implement common and optional
		Futonsion	features
		Extension:	Isi
		Link (url):	https://github.com/argouml-tigris-org/argouml
	A .125 A	Last Update:	05-27-2020 by Luciano
	Artifact:4	Output	Bat A contains the state of the
		Name:	Minimal disjoint sets
		Туре	Development
		Description:	Variable partitions are fragmented into minimal
		<b>.</b>	disjoint sets using FCA.
		Extension:	.fca
		Link (url):	https://github.com/argouml-tigris-org/argouml
2		Last Update:	05-27-2020 by Luciano
3		Phase:	Group
		Activity:	Derive code-topics from common class
		Descriptions	partitions;  Code-topics are derived based on their common
		Description:	class partitions;
		Retrieval	Clustering
		Technique:	Clustering
		recinique.	
	Artifact:1	•	
	Artifact:1	Input	Common and variable partitions
	Artifact:1	Input Name:	Common and variable partitions
	Artifact:1	Input Name: Type	Development
	Artifact:1	Input Name:	Development Classes that implement common and optional
	Artifact:1	Name: Type Description:	Development Classes that implement common and optional features
	Artifact:1	Input Name: Type Description: Extension:	Development Classes that implement common and optional features .lsi
	Artifact:1	Input Name: Type Description:  Extension: Link (url):	Development Classes that implement common and optional features .lsi https://github.com/argouml-tigris-org/argouml
		Input Name: Type Description:  Extension: Link (url): Last Update:	Development Classes that implement common and optional features .lsi
	Artifact:1	Input Name: Type Description:  Extension: Link (url): Last Update: Input	Development Classes that implement common and optional features .lsi https://github.com/argouml-tigris-org/argouml 05-27-2020 by Luciano
		Input Name: Type Description:  Extension: Link (url): Last Update: Input Name:	Development Classes that implement common and optional features .lsi https://github.com/argouml-tigris-org/argouml 05-27-2020 by Luciano  Minimal disjoint sets
		Input Name: Type Description:  Extension: Link (url): Last Update: Input	Development Classes that implement common and optional features .lsi https://github.com/argouml-tigris-org/argouml 05-27-2020 by Luciano

			disjoint sets using FCA.
		Extension:	.fca
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-27-2020 by Luciano
	Artifact:3	'	03-27-2020 by Euclatio
	Artifact.5	Output	Codo tonico
		Name:	Code-topics
		Туре	Development
		Description:	Code-topics derived from common class
			partition and each minimal disjoint set of classes
		Extension:	topic
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-27-2020 by Luciano
4		Phase:	Create Feature Model
		Activity:	Perform traceability links between features and code-topics;
		Description:	Analyzed and perform the traceability links
			between features and their code-topics;
		Retrieval	Latent Semantic Indexing
		Technique:	
	Artifact:1	Input	
		Name:	Code-topics
		Туре	Development
		Description:	Code-topics derived from common class
		·	partition and each minimal disjoint set of classes
		Extension:	topic
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-27-2020 by Luciano
	Artifact:2	Output	
		Name:	Traceability links
		Type	Development
		Description:	Traceability links between features and their
		'	possible corresponding code-topics
		Extension:	.lsi
		Link (url):	https://github.com/argouml-tigris-org/argouml
		Last Update:	05-27-2020 by Luciano
5		Phase:	Create Feature Model
		Activity:	Determine feature implementation
		Description:	determine which classes implement each
		Besonption	feature.
		Retrieval	Rule Based
		Technique:	Nate Basea
	Artifact:1	Input	I.
	7.1.1.1.4.1.1	Name:	Code-topics
		Туре	Development
		Description:	Code-topics derived from common class
1		Description.	partition and each minimal disjoint set of classes

	Extension:	.topic
	Link (url):	https://github.com/argouml-tigris-org/argouml
	Last Update:	05-27-2020 by Luciano
Artifact:2	Input	
	Name:	Traceability links
	Туре	Development
	Description:	Traceability links between features and their
		possible corresponding code-topics
	Extension:	.lsi
	Link (url):	https://github.com/argouml-tigris-org/argouml
	Last Update:	05-27-2020 by Luciano
Artifact:3	Output	
	Name:	Decomposed code-topics
	Туре	Development
	Description:	Decomposed code-topic to its classes
		determining which classes that implement each
		feature.
	Extension:	.topic
	Link (url):	https://github.com/argouml-tigris-org/argouml
	Last Update:	05-27-2020 by Luciano