**Process Report**

Project: Chen2005

Process: Retrieval process

Created by: Luciano Marchezan

Date: 07-25-2020

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| --- | --- | --- | --- |
| 1 |  | **Phase:** | **Extract** |
| **Activity:** | **Requirements elicitation** |
| Description: | Elicitation of requirements of the systems |
| Retrieval Technique: | Clustering |
| **Artifact:1** | **Output** | |
| **Name:** | **individual requirements** |
| Type | Requirements |
| Description: | A document describing the functional requirements |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |
| 2 |  | **Phase:** | **Categorize** |
| **Activity:** | **Requirements relationship graph construction** |
| Description: | construction of related requirements using a graph |
| Retrieval Technique: | Clustering |
| **Artifact:1** | **Input** | |
| **Name:** | **individual requirements** |
| Type | Requirements |
| Description: | A document describing the functional requirements |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |
| **Artifact:2** | **Output** | |
| **Name:** | **requirements relationship graph** |
| Type | Requirements |
| Description: | graph containing the relations of each individual requirement |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |
| 3 |  | **Phase:** | **Group** |
| **Activity:** | **Requirements clustering** |
| Description: | Requirements clustering and hierarchy structure construction |
| Retrieval Technique: | Clustering |
| **Artifact:1** | **Input** | |
| **Name:** | **requirements relationship graph** |
| Type | Requirements |
| Description: | graph containing the relations of each individual requirement |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |
| **Artifact:2** | **Output** | |
| **Name:** | **application feature trees** |
| Type | Requirements |
| Description: | A feature tree of the application created based on requirements |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |
| 4 |  | **Phase:** | **Create Feature Model** |
| **Activity:** | **Merging and variability modeling** |
| Description: | Merge the application feature trees of all the sample applications into a single domain feature tree. |
| Retrieval Technique: | Clustering |
| **Artifact:1** | **Input** | |
| **Name:** | **application feature trees** |
| Type | Requirements |
| Description: | A feature tree of the application created based on requirements |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |
| **Artifact:2** | **Output** | |
| **Name:** | **domain feature tree** |
| Type | Domain |
| Description: | A domain feature tree constructed by merging application feature trees and modeling their variability. |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-25-2020 by Luciano Marchezan |