**Process Report**

Project: Alves2008

Process: Retrieval Process

Created by: Luciano Marchezan

Date: 07-24-2020

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| 1 |  | **Phase:** | **Extract** |
| **Activity:** | **Perform a requirements similarity determination** |
| Description: | Analyze requirements documents to determine similarities |
| Retrieval Technique: | Vector Space Model |
| **Artifact:1** | **Input** | |
| **Name:** | **requirement documents** |
| Type | Requirements |
| Description: | documents containing requirements of the systems |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-24-2020 by Luciano Marchezan |
| **Artifact:2** | **Output** | |
| **Name:** | **requirements clusters** |
| Type | Requirements |
| Description: | A cluster of requirements generated from the initial requirements documents |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-24-2020 by Luciano Marchezan |
| 2 |  | **Phase:** | **Group** |
| **Activity:** | **Cluster requirements to generate configuration** |
| Description: | Employ the Hierarchical Agglomerative Clustering (HAC) to create confuguration |
| Retrieval Technique: | Clustering |
| **Artifact:1** | **Input** | |
| **Name:** | **requirements clusters** |
| Type | Requirements |
| Description: | A cluster of requirements generated from the initial requirements documents |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-24-2020 by Luciano Marchezan |
| **Artifact:2** | **Output** | |
| **Name:** | **configurations cluster** |
| Type | Requirements |
| Description: | a cluster of configurations |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-24-2020 by Luciano Marchezan |
| 3 |  | **Phase:** | **Create Feature Model** |
| **Activity:** | **Merge configurations for all requirements;** |
| Description: | Merge configurations into a FM |
| Retrieval Technique: | Clustering |
| **Artifact:1** | **Input** | |
| **Name:** | **configurations cluster** |
| Type | Requirements |
| Description: | a cluster of configurations |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-24-2020 by Luciano Marchezan |
| **Artifact:2** | **Output** | |
| **Name:** | **Feature Model** |
| Type | Domain |
| Description: | a fully-fledged feature model resulted from the merging of configurations |
| Extension: | na |
| Link (url): | na |
| Last Update: | 07-24-2020 by Luciano Marchezan |