

## Tagging of M&A Documents (Infineon)

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Software Architecture Description

AMOS – 5

<b>AMOS – 5</b>	Version: 1.0
Software Architecture Description	Date: 06-05-20

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## 1. Description

### 1.1 Purpose of Document

This document tries to aggregate the System architecture description from the different levels and provides a comprehensive overview of the software to illustrate different aspects of the system

### 1.2 Architectural requirements

The goal of this Software Architecture Document is to achieve the intended result of the proposed system. This section will briefly determine the functional and non-functional requirements of the system.

#### 1.2.1 Non-functional requirements

This part of the document precise requirements that address characteristics of the system besides the functionalities but are relevant for the system architecture. The non-functional requirements of the software have constraints and qualities.

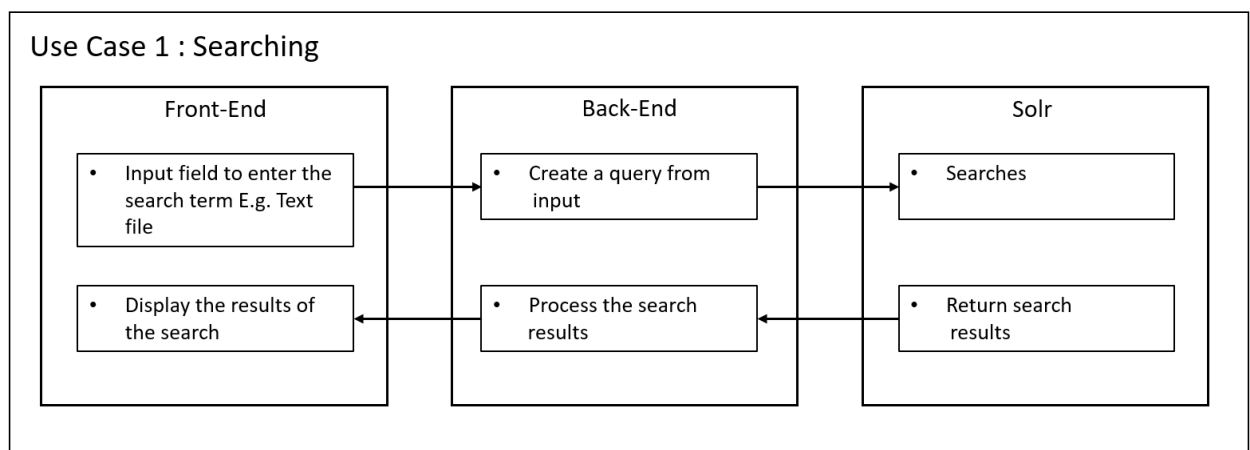
**Constraints** - it is the limitations and conditions on the system.

- The application needs to run on any web browser.

**Qualities** - it is the qualities of the website in terms of service and management.

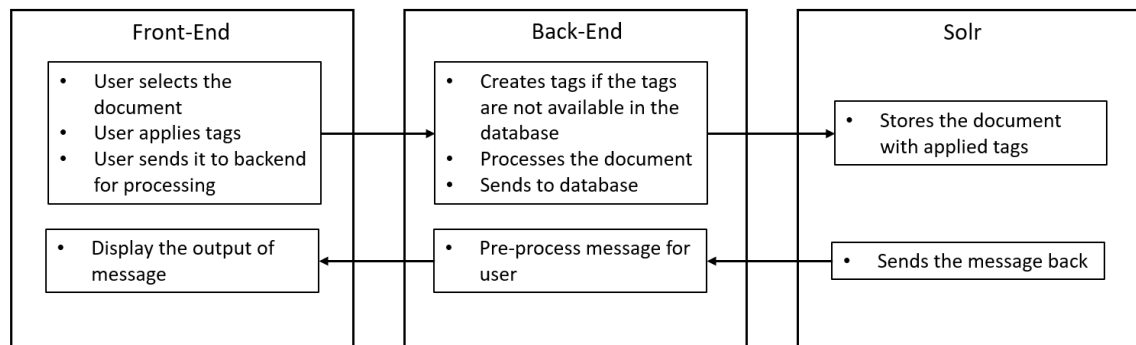
- The application is done through a lot of data gathering and research about the Machine learning algorithms and search engines
- The application is opensource, is licensed under MIT

#### 1.2.3 Use Case View (functional requirements)

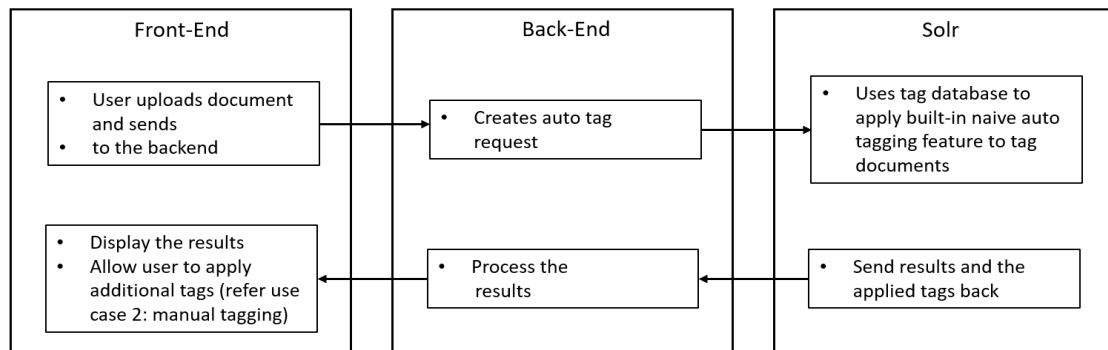


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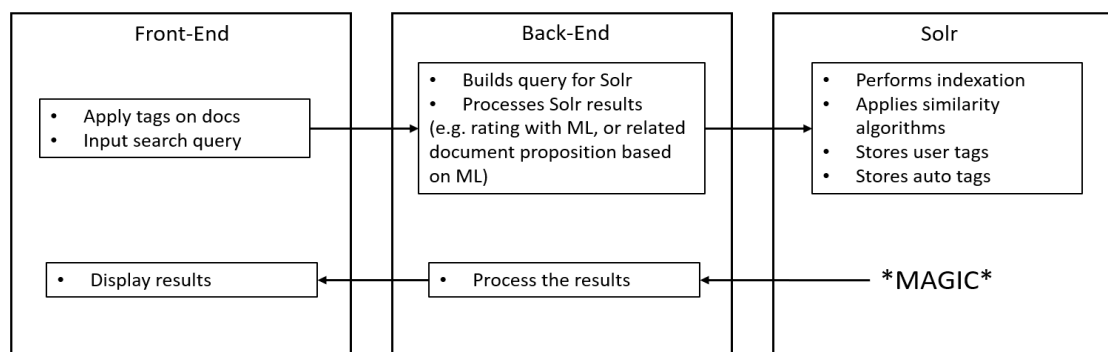
### Use Case 2 : Manual tagging



### Use Case 3 : Auto tagging



### Use Case 4 : Infinitag



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### 1.2.3 Scope of the project

The following table has the constraints or scope of the project:

1	Supports English and German language
2	Our software can only work with plain text, i.e. scanned or faxed documents that do contain “images of text” only will not work.
3	ML techniques used in tagging words to the text files
4	Structured data will be uploaded

### 1.2.4 Technology stack

	Language	Framework
<b>Front-end</b>	Typescript	Angular Frontend
<b>Back-end</b>	Python [C++ optimization if required]	Flask, Solrlib
<b>Solr</b>	<ul style="list-style-type: none"> <li>• Indexation</li> <li>• Feature extraction (tokenization, document preprocessing)</li> <li>• Language independent</li> <li>• Multi filetype support (eg. txt,html,json,pdf,doc,docx,pptx,etc.)</li> <li>• Built-in similarity features</li> <li>• Later: built-in machine learning feature which can be explored</li> </ul>	