Software Requirements Specification

STUDENT SEARCH ENGINE

Date: 2016-10-11

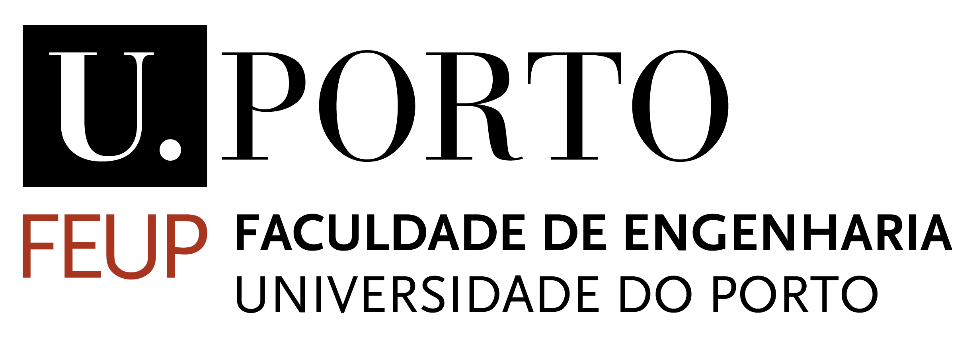
Project Code: Student Search Engine

Status: Draft

Pages: 10

Version:1

Partners:



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| --- | --- | --- | --- | --- | --- |
| Approval | | | | | |
| Version | Revision | Name | Function | Signature | Date |
| 1 | 1 |  |  |  | 2016-10-11 |

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| --- |
| Access List |
| Internal Access |
| MESW Class, MESW Faculty and Staff |
| External Access |
| <TBD> |
|  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision History | | | | |
| Version | Revision | Date | Description | Author |
|  |  |  |  |  |

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# Introduction

## Objective

This document has the main purpose of detailing the software requirements of the Student Search engine, according to a previously made analysis process.

## Scope

This document is part of an exercise for better understanding of the software requirement specification process and documentation.

## Audience

This document’s audience is MESW class and faculty.

## Definitions and acronyms

TABLE 1 presents the list of acronyms used throughout this document. The acronyms presented in [AD-1] are also applicable.

|  |  |
| --- | --- |
| Acronym | Description |
| AD | Applicable Document |
| RD | Reference Document |
| TBC | To be confirmed |
| TBD | To be defined |
|  |  |

TABLE 1: Acronyms

## Document structure

Section 1 (Introduction) presents a general description of this document’s content..

Section 2 (Requirements Catalogue) presents the software’s functional requirements specification.

## Applicable documents

TABLE 2 presents the list of the documents that are applicable to this document. A document is considered applicable if it complements this document. All its content is directly applied as if it was stated as an annex of this document.

|  |  |
| --- | --- |
| Applicable document | Document Number |
| 1. 830-1998 – IEEE Recommended Practice for Software Requirements Specifications | MESW1 |

TABLE 2: Applicable documents

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# Requirements Catalogue

## Functional Requirements

### REQ-MESW-0005-STUDENT AND AVERAGE SEARCH ENGINE

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW-0020-Student and Average Search Engine | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-09-27 |
| Type: | Functional | | | | | | |
| The Search Engine screen has the following information:   1. Search Filters:  * Student Number – input field for the student’s unique number; * Degree Major – combo box for the student’s Major; * Birthdate from – date input field for the student’s start birthdate; * Birthdate to – date input field for the student’s end birthdate;  1. Available user actions:  * Clean data; * Search.  1. List of registered students – paged list of the university’s registered students with the following columns:  * Student Number; * Major; * Birthdate; * Total Average.  1. The screen also allows the following actions:  * Cancel. | | | | | | | |

#### REQ-MESW-SSE-0005-Ordering of the Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW-SSE-0005-Ordering of the Table | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-10-12 |
| Type: | Functional | | | | | | |
| The list of registered students presents the following ordering rule.   * Student Average (decreasing); | | | | | | | |

#### REQ-MESW-SSE-0010-Student Number Input Field

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW-SSE-0010-Student Number Input Field | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-10-12 |
| Type: | Functional | | | | | | |
| The Student Number input field will work according to the following rules:   * It’s optional. * It will allow a maximum of 9 alphanumeric characters; | | | | | | | |

#### REQ-MESW-SSW-0030-Degree Major Combobox

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW--0030-Lista de Situações | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: |  |
| Type: | Functional | | | | | | |
| The Degree Major combo box field will work according to the following rules:   * The available options to the user will be obtained according to the University’s database. * Adding to these options, the option “All” will be available to the user; * The option “All” will be the one selected by default; * The field should not be editable by the user. The user can only select one of the available options. | | | | | | | |

#### REQ-MESW-SSE-0030-Birthday from Date Input Field

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW--0040-Birthday from Date Input Field | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-10-12 |
| Type: | Functional | | | | | | |
| The Birthday from input field will work according to the following rules.   * The format of the input will be dd-mm-aaaa; * When clicked, a widget-style calendar will appear to guide the user; * It’s optional; * By default, it’s empty. | | | | | | | |

#### REQ-MESW-SSE-0050-Birthdate to Date Input Field

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW-SSE-0050-Birthdate to Date Input Field | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-10-12 |
| Type: | Functional | | | | | | |
| Requirement [REQ-MESW-SSE-0040](#_REQ-MESW-SSE-0040-Birthday_from_Date) applies. | | | | | | | |

#### REQ-MESW-SSE-0070-Search Action

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW-SSE-0070- Search Action | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-10-12 |
| Type: | Functional | | | | | | |
| The Search Action executes a search in the University’s student Database, where:   * The Student Number introduced equals the Student’s academic number; * The Degree Major introduced equals the Major in the student’s current academic records; * The Birthday from introduced by the user is prior to or equals the student’s birthdate; * The Birthday to introduced by the user is after or equals the student’s birthdate;   Results shall be displayed in the List of Registered students table. | | | | | | | |

#### REQ-MESW-SSE-0080-Clean Data Action

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-MESW-SSE-0080- Clean Data Action | | | | | | | |
| Version: | 1.0 | Phase: | 1 | State: | Proposed | Date: | 2016-10-12 |
| Type: | Functional | | | | | | |
| The Clean Data Action will clear all search fields of their respective inputs. | | | | | | | |

**SOFTWARE REQUIREMENTS SPECIFICATION**