**Software Requirements**

**Specification**

**for**

**Registrar Service System**

**Version 1.0 approved**

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**Asia Pacific College Nov. 30, 2016**

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# Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for Changes** | **Version 1.0** |
| Neil Cueto | 11/30/16 | Software Specifications |  |
|  |  |  |  |

# 1.Introduction

## Purpose

The purpose of this document is to give a detailed description of the requirements for the Registrar Service System software. It will illustrate the purpose and complete declaration for the development of system. It will also explain system constraints, interface and interactions with other external applications. This document is primarily intended to be proposed to a customer for its approval and a reference for developing the first version of the system for the development team.

## Document Conventions

The format of this SRS is simple. Bold faces, Arial font and indentations are used on general topics or specific point of interest.

## Intended Audience and Reading Suggestions

This document is to be read by the development team, the project manager and stakeholders which is the Ville St. John Academy. A SRS has been used to approximately to organized the distribution and reading of documents. The project manager and developers must need to be familiar with the SRS.

## Product Scope

The Registrar Service System is an intranet-based application that covers the enrollment procedures and grade submissions of the school. It will be implemented to the client which is Ville St. John Academy. The system will allow its users most specially the administrator to navigate on the forms that are needed in the enrollment procedures and grade submissions. Furthermore, all the system information is maintained in a database, which is located on a web-server.

## References

## The Definitive Guide to Yii 2.0, http://www.yiiframework.com/doc-2.0/guide-index.html

Asia Pacific College ProjectsWiki, http://projects2.apc.edu.ph/wiki/index.php/Main\_Page

# Overall Description

## Product Perspective

This system is a web-based application that will cover two parts: enrollment procedures and grade submissions of the school. The system will be used for managing the students and other necessary information and will be stored to the database. Since it is web-based software, the minimum hardware requirement will be 4 terabytes on HDD with 16 gigabytes of RAM.

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## Product Functions

The system will provide its users the functionality to manage the students’ information during their enrollment period and grade submissions. The result will be based on the criteria the user inputs. The admin will be having the overall control on the system. Also, it will provide certain permission to each users of the system. In the views of each student account, they will be able to view their account information including their academic credentials (subjects, schedule, grades, section).

## User Classes and Characteristics

There are four types of users that interacts with the system: admin, HR personnel, teachers and students. Each of these users have certain permission use of the system. The administrators manage the overall system including the permissions given to each users, addition of tables and forms. It has the responsibility to secure all the information that enters the system. Other users have limited permission on the system depending on their role. Students can only view their academic credentials and are not allowed to add, edit or delete certain information.

## Operating Environment

The system can be run on windows 7 up to the latest operating systems to provide graphical user interface in order to help its users easily navigate on the system.

## Design and Implementation Constraints

Since the system is an intranet-based application, it can only be access within the vicinity of the school. Also, the system will focus on the Registrar Department and partially on the HR Department only.

## User Documentation

There will be available documents and tutorials for the users to serve as their guide in navigating through the system including admin manuals and application guide.

## Assumptions and Dependencies

The assumptions of the product are that it will always be used on the day to day activities of the registrar of the school and that it will be implemented based on the required hardware components in order to fully run the system. Also, all the information that enters on the system must be directly store on the database and will not provide any inconsistencies on the data.

# External Interface Requirements

## User Interfaces

As an admin who has the overall control on the system, he/she should see the log-in page and then will be directed to the main page which contains all the forms that are created for the school. The admin can also create users and provide certain permission on the system.

For other users like students, they can be directed on a log-in page or the main page which contains only the information of the school which is different on the admin’s side. After the log-in page, they will be directed to a page that contains their academic credentials.

## Hardware Interfaces

Since the system is a web-based application, it does not have any designated hardware, it does not have any direct hardware interfaces. The application hardware connection to the database server is managed by the underlying operating system on the web server.

## Software Interfaces

The communication between the database and the web portal consists of operation concerning both adding, viewing and modifying the information that are stored or will be store on the database.

## Communications Interfaces

The communication between the different parts of the system is important since they depend on each other. It is because the information that was created on a certain form might be needed to complete the requirements needed on other forms.

# System Features

This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product.

## System Feature 1

4.1.1 Description and Priority

By using the system, users are able to create and generate information forms regarding the tables implemented on the system. Users can also update or delete this information. The forms available on the system are connected with each other that allows the information that are stored to pass from one form to another.

4.1.2 Stimulus/Response Sequences

Stimulus: User request to add new student on the system.

Response: System will provide a pop-up form for the user to enter the data

Required for the student’s information. After creation, the user will

be directed to another form that will allow user to assign the

student into a section.

Stimulus: User can now go back to the main page where all forms are

available by clicking the Home button.

Response: System will direct the user to the main page.

4.1.3 Functional Requirements

|  |  |  |
| --- | --- | --- |
| Feature ID | Feature Name | Description |
| FR-F1 | Add Data | The application allows users to add/create new data on the forms. |
| FR-F2 | Update Data | The application allows users to update the data on the forms. |
| FR-F3 | View Data | The application allows users to open and view the data on the forms. |
| FR-F4 | Delete Data | The application allows users to delete the data on the forms |

## System Feature 2 (and so on)

# Other Nonfunctional Requirements

## Performance Requirements

The system must be interactive and delays involved must be less. In every interaction of the users to the system, there must be no delays as the information that are inputted or stored are needed to other forms of the system.

## Safety Requirements

The system shall not allow unregistered person to access the system and its database. The system must specify the privilege of a certain users that will access on it. Based on the different permissions for the users, there are users that are limited access to other forms on the system and are not allowed to use its functions like add, delete or update the information.

## Security Requirements

Security of the information is one of the main objective that the system must meet including the confidentiality of the information that passes through the system, the availability of these information to the right users and the authorization of the users of the system.

## Software Quality Attributes

Functionality: Checking that the system provides the right tools for editing question databases, creating session tests and analyzing the test sessions.

Availability: Checking that the system always has something to function and always pop up error messages in case of component failure. In that case the error messages appear when something goes wrong so to prevail availability problems. The availability of the data must be given based on the user’s permission.

Usability: Checking that the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly.

## Business Rules

Administrator: Only admin have the overall control and access on the system. They are able to create, modify or delete forms and provide access of these forms to other users of the system.

Normal User: This includes the students that give them the permission to only view their specific information and are not allowed to create or delete the information on the system.

# Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

# Appendix A: Glossary

SRS: Software Requirements Specification

Forms: Use to create, view, modify and delete data on the system.

# Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

# Appendix C: To Be Determined List

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>