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Software Requirements Specification

for

Top Five

Version 1.0 approved

Prepared by Beatrice Cerda

UHD

March 18, 2017

eLearning versions of several popular Process Impact training seminars are available at [www.processimpact.com/elearning.shtml](http://www.processimpact.com/elearning.shtml), including “In Search of Excellent Requirements,” “Exploring User Requirements with Use Cases,” “Writing High-Quality Requirements,” “Software Inspections and Peer Reviews,” and “Project Management Best Practices”. Single-user and corporate-wide site licenses are both available.

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Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| Beatrice Cerda | 03/18/17 | Initial Draft | 1.0 |
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# Introduction

## Purpose

This project is to create a Student Information Management System that helps a university IT department improve their services and for management to track student information. The software system only stores and retrieves student’s partial information during the current semester such as student’s name, student ID, courses registered, exam grade, and GPA.

## Document Conventions

Microsoft Word – Emails, Revisions

## Intended Audience and Reading Suggestions

Intended audience, the client.

## Project Scope

The project is designed to assist in managing in an efficient yet simple manner, the entry of student grades and calculation of student GPA. The system is not designed to integrate all aspects of an educative system, but instead provide a bare bones operation enabling multiple administrators data entering their own courses and students.

## References

1. Team Website : <https://www.c9.io>

2. Course Home Page: <https://www.bb.uhd.edu>

# Overall Description

## Product Perspective

This system will consist of two parts, the back end database and the front end website interfaces.

## Product Features

The website will allow faculty to add students, courses, and grades to the system allowing the students to query their GPA. The website will be linked to a database enabling the faculty to add to the database.

## User Classes and Characteristics

Website Class: transfers requests from user to control class.

Admissions Class: controls all movements between all other classes and authenticates users.

Registration Class: enables the faculty to add courses and students, plus serves to verify registration.

Records Class: allows the modification of a record by adding grades to already existing records.

Student Report Class: permits display of student records on screen.

## Operating Environment

Cloud based service with MySQL and PHP capabilities.

## Design and Implementation Constraints

Time

Resources

Man-power

## User Documentation

Online Tutorials of MySQL and PHP

## Assumptions and Dependencies

Team of 5 resources.

Software Availability

# System Features

Please see GitHub for use case, class an sequence diagrams.

## System Feature

Database

GUI

Cloud access

Multiple Users

# External Interface Requirements

## User Interfaces

Please see GitHub for GUI.

## Hardware Interfaces

No Hardware Interfaces

## Software Interfaces

MySQL database with Microsoft operating systems, Git tools, and PHP libraries.

## Communications Interfaces

Website: PHP and HTML

# Other Nonfunctional Requirements

## Performance Requirements

Not Applicable

## Safety Requirements

Not Applicable

## Security Requirements

Basic Authentication, must practice sound security habits