

# Project Requirements

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October 5, 2019

## Abbreviations and Related Terms

- ABET - Accreditation Board for Engineering and Technology
- DSU - Dean of Undergraduate Studies
- SLO - Student Learning Outcomes
- ADA - Americans with Disabilities Act
- FERPA - Family Education Rights and Privacy Act
- PPRA - Protection of Pupil Rights Amendment

## Business Requirements

- BR1. The client wants to allow professors to be able to upload SLO evaluations
- BR2. The client wants to increase the number of professors reporting SLO evaluations
- BR3. The client wants to disseminate guides and informational documents about SLO evaluations to professors
- BR4. The client wants to correct false assertions about SLO evaluations
- (a) The client wants to emphasize that SLO evaluations are not grades
  - (b) The client wants to emphasize that SLO evaluations are not weighted (i.e. meeting is expected, not exceeding)
  - (c) The client wants to emphasize that SLO evaluations are not evaluations of professors

- BR5. The client wants to make maintaining and creating documentation for ABET accreditation more streamlined
- BR6. The client wants to meet ADA compliance to ensure the system is accessible to all users
- BR7. The client wants to meet FERPA compliance to ensure the system protects sensitive information
- BR8. The client wants to meet PPRA compliance to ensure the system protects sensitive information
- BR9. The client wants the output file to contain a class score
- BR10. The client wants the output file to contain all of the necessary student learning outcome information
  - (a) Nameless student submissions with rubric and evaluation
  - (b) Number of students in each category (exceeds, meets, partially, not)
  - (c) An artifact score (computed as the % of students who meet or exceeded the expectations for that artifact)
  - (d) A student learning outcome score (computed as the average of the three artifact scores)

## Functional Requirements

- FR1. The system shall create a form for professors to input information for SLO evaluations
- FR2. The system shall output a zip file for each class portfolio after completion of SLO evaluations
- FR3. The system shall allow the DUS to assign SLOs to professors
- FR4. The system shall mark course portfolios as read-only after a set period of time
- FR5. The system shall display messages about SLO evaluation information as described in business requirements #4a - 4c
- FR6. The system shall verify that the correct number of artifacts has been uploaded for each SLO

- FR7. The system shall display messages to confirm successful entry of SLO evaluations
- FR8. The system shall include a link to user documentation about the system
- FR9. The system shall display guides and informational documents about SLO evaluations
- FR10. The system should output single zip file

## **Non-Functional Requirements**

- NFR1. The system should not ask for any personal identifying information during SLO evaluation entry
- NFR2. The system should not include any personal identifying information in the zip output
- NFR3. The system should contain at least three evaluations per SLO before output can be given
- NFR4. The system should randomly select a group of students for student evaluations with a maximum size of 20% or 10 students for SLO evaluations
- NFR5. The system should handle login through linkblue
- NFR6. The system will use a MySQL database
- NFR7. The system will use text that has a color contrast ratio of 4.5 or greater to the background
- NFR8. The system will specify alternate text for images
- NFR9. The system will allow clickable elements to be accessible by a keyboard

## **User Assumptions**

- An artifact is a single evaluation of a single outcome
- Wait period for marking course portfolios as read-only is defined/adjusted by an administrator user of the system

- Professors do not have to do random selection of students for SLO evaluations
- Professors do not have to manually enter SLO evaluation descriptions

Requirements Traceability Matrix		
Business Requirements	Functional Requirements	Non-Functional Requirements
BR1	FR1	
BR2	FR5	
BR3	FR5	
	FR8	
	FR9	
BR4	FR5	
BR5	FR1	NFR3
	FR2	NFR4
	FR3	
	FR6	
	FR7	
BR6		NFR7
		NFR8
		NFR9
BR7		NFR1
		NFR2
BR8		NFR1
		NFR2
BR9	FR10	
BR10	FR10	