**Product Requirements**

**for the**

**SIUE Department of Computer Science**

**CS425 / CS499 Senior Project**

**Software Design and Implementation Courses**

**by**

**Zach Benchley, Matt Lievens, Logan Maughan, Brian Olsen**

**of**

****

**Learning Outcomes-Based Assessment Database Team**

Revision 1.0

As Of: September 12, 2013

LOBA-SPEC-REQ

Change Log:

|  |  |
| --- | --- |
| Revision | Change Note(s) |
|  |  |
| 1.0 | * Initial Release |

Reviewed and Approved By:

Name Signature Date

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Functional Requirements** |  | **Non-Functional Requirements** |
| **1** | The teacher wants to be able to add specific skills to the skill list so that it can be kept up to date. | **1** | The application must contain a database so that the data can be stored efficiently. |
| **2** | The teacher wants to be able to remove specific skills from the skill list so that it can be kept up to date. | **2** | The application must be connected to Blackboard so that the students can view their scores. |
| **3** | The teacher wants to be able to view a list of skills for a class so that they can decide if it needs to be updated or not. | **3** | The application must be able to run on at least Windows, Mac, and Linux systems so that it can be used on most computers. |
| **4** | The teacher wants to be able to create a class so that all of the courses that they are teaching can be offered LearnOBA. | **4** | The database must store previous student scores for at least one year so that school policy is met. |
| **5** | The teacher wants to be able to remove a class when it is over so that the system does not get overcrowded. | **5** | Current documentation must be kept for the application so that the user can look up anything that is unclear. |
| **6** | The teacher wants to be able to select a class so that they can manage it. | **6** | The application must be open-source so that future modifications can be made. |
| **7** | The teacher wants to be able to add a student to a class so that the roster can be kept up to date. | **7** | The application must be written in Java and the database must be written in mySQL so that it will be compatible on most systems. |
| **8** | The teacher wants to be able to remove a student from a class so that the roster can be kept up to date. |  |  |
| **9** | The teacher wants to be able to add student scores so that the student’s progress can be accurately tracked. |  |  |
| **10** | The teacher wants to be able to change student scores so that the student’s progress can be accurately tracked. |  |  |
| **11** | The teacher wants to be able to pre-fill all of the outcomes for each task so that progress tracking and score updating is easier. |  |  |
| **12** | The students want to be able to look up their scores so that they can see how close they have come to mastering their skills. |  |  |
| **13** | The students want to be able to view a breakdown of exams so that they can better see what skills they need to work on. |  |  |
| **14** | The teacher wants the data for each student and class to be stored in a database so that it is easily accessible by the system. |  |  |
| **15** | The teacher wants to be able to export student scores in a comma delimited form so that it can be uploaded to Blackboard. |  |  |
| **16** | The teacher wants to be able to add a question to an assignment so that it can be kept up to date. |  |  |
| **17** | The Teacher wants to be able to remove a question from an assignment so that it can be kept up to date. |  |  |
| **18** | The Teacher wants to be able to add an assignment to a class so that the class is keep the class up to date. |  |  |
| **19** | The Teacher wants to be able to remove an assignment to a class so that the class is kept up to date. |  |  |