**Project Identification Document**

**Project Name:** Oral Exam Companion

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**Business Need:** The need for the Oral Exam Companion arises from the inefficient method, currently in use, of heavyweight spreadsheet documentation related to the records that should be kept for the oral exit examination by the ETSU Department of Computing for its graduate degree students.

**User Roles:** Administrator, Professor

**High-Level Functionalities:**

1. The Administrator shall be able to give a test to a student.
2. The Administrator shall be able to log in to the Oral Exam Companion.
3. The Administrator shall be able to input demographics of the student that is taking the exam.
4. The Administrator shall be able to manually grade each question.
5. The Administrator shall be able to skip question.
6. The Administrator shall be able to type personal notes in relation to any question on the exam.
7. The Professor shall be able to log in to the Oral Exam Companion.
8. The Professor shall be able to upload a Course Document (see in “Glossary of Terms”) to the Oral Exam Companion.
9. The Oral Exam Companion shall be able to retrieve another question from the Question Bank (see “Glossary of Terms”) any time a question is skipped by the Administrator.
10. The Oral Exam Companion shall be able to suggest a pass or fail grade for a section of the examination, with or without Administrator input.
11. The Oral Exam Companion shall be able to suggest a pass or fail grade for the entire examination after completion, with or without Administrator input.
12. The Oral Exam Companion shall be able to provide exam question randomization *per each instance* of exam administration.
13. The Oral Exam Companion shall be able to provide exam question randomization *within each instance* of exam administration.
14. The Oral Exam Companion shall be able to provide data persistence.

**Expected Value:** The Oral Exam Companion will replace the current method of storing oral examination information in a collection of spreadsheets. In turn, this will increase the ease of determining questions for the examination, storing information pertaining to the examination, and administering the examination.

**Special Issues:** Not applicable

**Glossary of Terms:**

Administrator – the lone user of the Oral Exam Companion that administers the oral examination to students. An Administrator is a Professor.

Professor – multiple users of the Oral Exam Companion that provide questions to the administrator through the Oral Exam Companion. These questions are stored in a Question Bank (see in “Glossary of Terms”) for randomized use on the oral examination.

Question Bank – a selection of questions pooled together from Professors (see in “Glossary of Terms”) that allow the Oral Exam Companion to provide a randomized set of examination questions for the student.

Course Document – a structured text file that contains information pertaining to the course in which the Professor is teaching. This information includes but is not limited to title of course, course number, instructor name, semester, and questions (20 to 100 in quantity) that could be asked in relation to the course. This file will be uploaded to the Oral Exam Companion by a Professor in advance of the administration of the oral examination.

**Priority List:**

1. The Administrator shall be able to give a test to a student.
2. The Administrator shall be able to log in to the Oral Exam Companion.
3. The Professor shall be able to log in to the Oral Exam Companion.
4. The Professor shall be able to provide a Course Document (see in “Glossary of Terms”) to the Oral Exam Companion.
5. The Oral Exam Companion shall be able to provide exam question randomization *per each instance* of exam administration.
6. The Oral Exam Companion shall be able to provide exam question randomization *within each instance* of exam administration.
7. The Administrator shall be able to input demographics of the student that is taking the exam.
8. The Administrator shall be able to type personal notes in relation to any question on the exam.
9. The Administrator shall be able to manually grade each question on the fly.
10. The Oral Exam Companion shall be able to retrieve another question from the Question Bank (see “Glossary of Terms”) any time a question is skipped by the Administrator.
11. The Administrator shall be able to skip questions on the fly.
12. The Oral Exam Companion shall be able to automatically grade the entire examination after completion, with or without Administrator input.
13. The Oral Exam Companion shall be able to automatically grade a section of the examination, with or without Administrator input.
14. The Oral Exam Companion shall be able to provide infinite data persistence.