Doornail Technologies, Inc.

System Requirement Specifications for the Grade Book Program

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CS3300 Software Engineering

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Assumptions:

1. The professor is the only person who administers the grade book application.
2. Data encryption and decryption techniques are not required.

Section I: Program Requirements

1. The program must run on Windows XP, Vista, and 7 Operating Programs.
2. The program must import and export all data in CSV format for use with Microsoft Excel.
3. The program must be able to support multiple grade books, each for a specific course.
4. The program must use a local configuration file for preferences, and the program must allow the user to specify the location of saved CSV files.
5. The program must be able to email students regarding new assignments and individual student scores.
6. For privacy reasons, the program must give the user the option to select which columns to view or export, i.e. omit student ID or other notes about the students.

Section II: Grade Book Requirements

1. A grade book must have a course ID as a required field, i.e. "CS 3300".
2. A grade book contains a list of assignments and students enrolled in the course.
3. A grade book must be able to support zero or more assignments.

Section III: Assignment Requirements

1. An assignment must have an ID, title, and points available as required fields.
2. An assignment may have a description, type, and due date as optional fields.

Section IV: Student Requirements

1. A student must have an ID, email, first and last name as required fields.
2. A student may have a degree (undergraduate or graduate) and notes about the student as optional fields.
3. A student’s score will be maintained in a table of key and value pairs (assignment ID’s and points earned).
4. A student’s overall score will be represented by points earned divided by points available.