Doornail Technologies, Inc.

System Requirement Specifications for the Grade Book System

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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: System Requirements

1. The system must run on Windows XP, Vista, and 7 Operating Systems.
2. The system must import and export all data in Microsoft Excel format.
3. The system must be able to support multiple grade books, each for a specific course.
4. The system must use a local configuration file for preferences.
5. The system must be able to email students regarding to new assignments and individual student scores.

Section II: Grade Book Requirements

1. A grade book must have an ID as a required field.
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 pair (assignment ID’s and points earned).
4. A student’s overall score will be represented by points earned over points available, and therefore grade representations such as a percentage value or a specific letter grade will be calculated outside of the student object because the professor will have the ability to apply mathematical models such as bell curves and weighted grades to the .