

Donnervögel Consulting
Streamlined Grading System

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Revision History

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Added Academic Admin section.

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Created initial template.

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Part I

Functional Requirements

1 Role - The Muffin Man

1.1 Making Muffins

There is much to consider when making muffins.

1.1.1 Choosing the Right Ingredients

Any Muffin Man knows the right selection of bacon can make or break a good muffin. Basically you can type whatever you want here and LaTeX will format it nicely for you.

1.1.2 Mixing

Put your back into it.

1.1.3 Into the Oven

Preheat your oven to $\frac{1}{\pi} \sum_{i=0}^{\infty} e^i$ degrees.

1.2 Sellings Muffins

1.2.1 Presentation

Ugly looking muffins won't get bought.

1.2.2 A Good Store Front

People won't come into a shady looking place, no matter how good your muffins are.

1.2.3 On Wit and Charm

When all else fails, hope you rolled a good CHA stat, and be a gentleman.

2 Role - The System Administrator

3 Role - The Academic Administrator

3.1 The Power of the Academic Admin

The Academic Admin does not have any jurisdiction over the role of System Administrator. The Academic Administrator role assumes all functions of and can change/update any material provided by the following users:

- Assistant Academic Administrators
- Instructors
- TA/TMs

4 Role - The Assistant Academic Administrator

5 Role - The Instructor

6 Role - The Ta/Tm Markers

7 The Login System

8 The Database

9 Logs

There are two distinct types of logs: Academic Logs and System Logs.

9.1 Academic Logs

The academic log contains all records of additions and changes to the academic records. The academic log documents grade and assignment modifications. The academic log is visible to every user excluding the Ta/Tm marker.

9.2 System Logs

The system log contains a record of the systems tasks. It documents user sign-ins and system backup times. The system log is only visible to the System Administrator.

Part II

Non-functional Requirements

10 Test Section

10.1 Test subsection

Part III

User Interface Mockups

11 Login

12 Marking

13 System Admin Maintenance Panels

14 Course Creation/Modification

15 Assignment Management

16 Test Suite

The test suite is the section of the grading system that allows the marker to evaluate code.

16.0.1 Functionality

The submitted code will be view-able side by side with the solution code. The code will be compiled on the server in an insulated environment. Only Python will be implemented for the prototype. The test suite will also allow a section for the marker to view the output of submitted code.

16.0.2 Format

The test suite will fit into the main content area of the grading system. The top 2/3 of the content area will be divided into two sections. The left will contain the correct or solution code while the right will contain the student's submitted work. The answer half of the content area can be switched to the rubric(and subsequently back to the solution code) if the marker desires. The bottom 1/3 of the content area will contain a console window with buttons to run and stop the submitted code.

17 Student/TA Group Management