



# WriteItUp!

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## 1. INTRODUCTION

### 1.1 PROJECT OVERVIEW

*WriteItUp!* provides a system for teachers to help their students learn and/or improve grammatical and writing skills. Each user will be allowed to log into the system with a corresponding interface for that specific user which will help facilitate the efficient use of the program.

### 1.2 GOAL

The goal of *WriteItUp!* is to increase the overall learning, brainstorming and writing skills of students across the board.

### 1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

- DB - Database
- SQL - Structured Query Language
- FOSS - Free Open Source Software
- OS - Operating System
- Reviewers - Represent users who will review and critique the stories of student users.
- Students - Represent users who will learn writing techniques, plan out their story, write the story, and then receive feedback on their work.
- Teachers - Represent users who will register their students for access to the site and then have access to all the work and reviews for their students
- System Administrator - Represents the administration user of the site who will have access to all other user information, must confirm registration of student and teacher users before their accounts become active, and who can adjust the content of the web site.

- Administration Page - Represents the page viewable by the System Administrator only and offers a GUI for viewing all other users and editing content.
- Teacher Page - Represents the page viewable by the Teacher users only that allows them to register themselves and their students
- Reviewer Page - Represents the page viewable by the Reviewer users only that will allow them to watch a short training video on reviewing, search for stories to review, review stories, and view other reviews of the same stories
- Student Page - Represents the page viewable by the Student users only where they can watch video lessons, plan out stories, compose them, and then submit their stories for future review.

#### **1.4 REFERENCES AND ACKNOWLEDGEMENTS**

- Jonathan Matheus for assisting our team with the set-up and utilization of our RavenDB NoSQL database.
- Wayne Cochran for serving as a project manager and lead.

## 2. DESIGN

### 2.1 USER ROLES

#### 2.1.1 System Administrator Role

The administrator role provides assignments and facilitates use of the website. The admin also has access to all of the information put into *WriteItUp!* for use in academic research. In order to handle issues that may arise with users the admin also has the ability to remove user accounts.

##### 2.1.1.1 System Administrator Use Cases

- Login
- Generate and manage assignments
- Generate and manage access codes
- View students' submissions and the associated reviews
- View reviewers and reviews they have given
- View teachers and associated students

#### 2.1.2 Teacher Role

A teacher user will be given a four digit code before they can register using *WriteItUp!*. This code will be provided by the System Administrator. A code can only be used once. After a teacher register an account using their provided code, the teacher can create a course with a specified title and end date. Each course will have an associated four digit number as well. This number can be given to reviewers and students to add themselves to the course. This code can be used multiple times. However, if a student or reviewer is removed from a course, the four digit code will be changed to prevent the deleted user from adding themselves back to the course. At this point, the teacher will need to provide the new code for students and reviewers wishing to add themselves to the course. Teachers can also add assignments to each course they have created with due dates. Once added, the assignments can have due dates extended. These assignments are created by the System Administrator. Teachers can also become reviewers.

##### 2.1.2.1 Teacher Use Cases

- Register
  - Login
  - Create a course
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- View Students in a course
- View Reviewers in a course
- View Courses
- View Story written by a student
- View Reviews for an Assignment
- View Assignments
- Add assignments to a course
- Delete student from a course
- Delete reviewer from a course
- Register as a reviewer
- Extend due date of assignment
- Delete course

### 2.1.3 Student Role

Once a student registers an account with *WriteItUp!* they are able to login and enroll in any courses that a teacher has given them an access code for. Upon enrolling for a course, the student may enter the course and choose to work on any available assignments. Once assignments have been submitted, the student may view their submission and any reviews given to their submitted assignment.

#### 2.1.3.1 Student Use Cases

- Register
  - Login
  - Enroll
  - Enter course
  - View current assignments
  - Choose to work on a current assignment
  - Watch assignment strategy video
  - Brainstorm using embedded drawing tool
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- Write assignment
- View submitted assignments
- View submitted assignment details
- View reviews of a submitted assignment

#### **2.1.4 Reviewer Role**

Once a reviewer registers an account with *WritelUp!* they are able to login and review for any course that a teacher has granted them access to. Upon gaining access to a course for the first time, the reviewer will watch a short training video to familiarize themselves with the procedure for reviewing stories. Once this task has been performed, they can select a story from of list of submitted stories to review.

##### **2.1.4.1 Reviewer Use Cases**

- Register
- Login
- Enroll
- Enter course
- Watch training video
- View current stories to review
- Choose story to review

## **2.2 INTERFACE DESIGN**

The interface is specific for each user and all views follow a similar design scheme such as in the following screenshots.

### 2.2.1 Registration

## Complete Registration

First name

Last name

Email

Confirm Email

Password

Confirm Password

Account Type

Confirm Code

**Register**

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### 2.2.2 Teacher Home Page

## Welcome Teacher

+ Add Course

Course	End Date	Confirmation Code	Students	Reviewers
CS 458	5/10/2015	9408	Students	Reviewers <span style="color: red;">X</span>

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### 2.2.3 Student Strategy Video



### 2.2.4 Student Writing Page

## 2.2.5 Reviewer Scoring Page

WritelUp    Reviewer Home    Training    Teacher    Logged in as: reviewer1@gmail.com    Log off

Write about how you like to write

Why I Like to Write

I like writing because it stimulates my brain.

I also like to write because it tends to relax me.

For scoring purposes only: Were the following questions answered in the student's story? 0=No, 1=Yes

Who is in the story?	0
Where does the story take place?	0
When does the story take place?	0
What happens in the story?	0
What happens next?	0
How does the story end?	0

## 3. IMPLEMENTATION

### 3.1 DEVELOPMENT ENVIRONMENT

*WriteltUp!* was developed in Visual Studio utilizing a combination of ASP.NET, C#, JavaScript, HTML5, Linq, and an external NoSQL RavenDB. Source control was managed through GitHub.

### 3.2 DEPENDENCIES

*WriteltUp!* requires access to the Microsoft stack and IIS server in order to run. In addition, the program either needs a local running service of RavenDB or an external RavenDB hosted on a website such as RavenHQ. Using RavenHQ will require a small monthly fee while a local running RavenDB will not.

### 3.3 HARDWARE AND SOFTWARE REQUIREMENTS

Microsoft Windows 7 and higher or MAC Mavericks and higher are sufficient operating system requirements. Although not tested on a FOSS OS such as Ubuntu, we suspect those should work as well.

### 3.4 CONFIGURATION AND RUN INFORMATION

#### 3.4.1 Deployment Locally

For testing, WriteltUp can be deployed locally though an emulator within Visual Studio. Ensure RavenDB is running on port 8080 locally and the connection string exists in the Web.config file. If no connection string exists for RavenDB for localhost:8080 obtain one by using the native RavenDB UI. Make sure that the document store in RavenRegistry.cs under Dependency Resoultion has the ConnectionStringName set to "RavenDB", or whatever you had named it in the connection string. Clicking run will build and deploy the project locally.

#### 3.4.2 Deployment on Azure

This project can be deployed on Microsoft Azure using RavenHQ as the database back end. First ensure the connection string for ravenHQ exists in the Web.config file. If no connection string exists copy one from your

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RavenHQ account into that file, and modify the RavenRegistry to use RavenHQ. Then, from the solution explorer right click the package and select publish. Publish to Azure Websites using your account information. Follow the prompts. When the prompts are finished the website will be available at <Given>.azurewebsites.net

### **3.4.3 Deployment on WSU servers**

For deployment on the appropriated WSU server follow these steps. On a windows machine on campus using remote desktop, remote into van-capstone.vancouver.wsu.edu. Credentials can be obtained by speaking to Chuck Harrsh. Ensure IIS8. Ensure RavenDB is installed and running on port 8080, with connection string and RavenRegistry settings set similarly to deploying locally. In the server manager, select manage, then add roles and features. Under server roles select Web Server(IIS). On the next screen, ensure .Net framework 4.5 is included. Next, Select all Application Development features and add them. Confirm these and allow the features to install. Refresh the manager. Select tools and open IIS. Copy WriteltUP into the c://...inetpub//wwwroot folder. Permissions will be automatically reassigned. Right click Sites and select Add Websites. Pick a site name and point the physical path to the directory in the wwwroot folder. Under host name enter "van-capstone.vancouver.wsu.edu". Select browse to see if the site is working properly at this point. The ip of the address will be 69.166.34.2

## 4. TESTING

### 4.1 TESTING PLAN

The testable item is the program itself operating on a server. Tests were performed throughout the development phases. Authors often tested their code to verify it was operating as expected. Any issues that needed additional follow-up were dealt with through frequent team collaboration using a communication tool, Trello. The testings for the user interface, which included the use case scenarios, were performed throughout the month of April 2015. Each team member chose users from friends and family to test the functionality and ease of use of the program.

### 4.2 TESTS FOR FUNCTIONAL REQUIREMENTS

Testing was complete as of Friday, April 24, 2015. Since that time Dr. Dunn requested changes to review scoring. Changes have been implemented and are documented in section 6. The testing results do not reflect these changes.

#### 4.2.1 Register

Users should be able to register with a first name, last name, an email as a username, with a password greater than six characters in length and a choice of what type of user they are registering as. If the user is registering as a teacher, the system should require the teacher provide a code that would have been given to them by the system administrator. Passwords are hashed and stored in the database such that the passwords are unrecognizable to database administrators. If email confirmation does not match, email is already in use, the password is not long enough, or the teacher code is invalid, the system should provide an alert. These accounts will be valid until removed from the database by an admin.

#### 4.2.2 Login

A user should be able to log in to *WriteItUp!* with their username equal to that of the email they used to register with and their password. Upon successful login the user should be directed to their home page. If there is an invalid email or password provided, an alert should be presented.

#### 4.2.3 Change password

A user should be able to select to change their password. Their password should successfully update upon entering their username (email), old password and new valid password. If any data entered is incorrect or invalid, an alert should be given.

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#### **4.2.4 Teacher Create Course**

A teacher can create a course provided they have a title for the course and have an end date for the course that is after the current date. Once a course is created, a course number is provided that can be used for reviewer or student users to add themselves to the course. This number must be provided offline by the teacher.

#### **4.2.5 View Courses**

The landing or index page of the teacher shows a list of all courses the teacher has created with an end date for the class and the confirmation code needed by students and reviewers to add themselves to the course.

#### **4.2.6 Delete Course**

The teacher can delete a course by selecting the red 'x' on the same row as the course. A pop-up will appear to alert the teacher to the results of the action of deleting the course. All students and reviewers will be removed from the course but the students will retain knowledge of the assignments relating to the class since these assignments have influenced their learning.

#### **4.2.7 Teacher Add Assignment**

A teacher can select the name of any of their courses on their landing page and add an assignment to the course. The teacher may select from assignments added by the System Administrator. Each assignment as a title, brief description, and associated video. The assignment can be added by viewing its details and then selecting a due date. By default, the due date is a week from the current date.

#### **4.2.8 View Assignments**

A teacher can view the assignments associated with each course by selecting the name of the course from the landing page. This provides the teacher with a list of all active assignments as well as assignments with past due dates. The teacher can also select the add assignment button from any of the courses to see a list of available assignments by the system administrator.

#### **4.2.9 Extend Due Date of Assignment**

Any assignment can have its due date extended by selecting the course of the desired assignment and then the extend due date option from the desired row in the assignment table. The new date will default to one day later but can be changed to any future date.

#### **4.2.10 View Reviews for an Assignment**

A teacher can see the reviews made for a particular student's assignment by selecting the student button on the appropriate row from the table of courses on the teacher's landing page. Then selecting assignments for the desired student and clicking, if available, view under the Review 1 or 2 table heading. This allows the teacher to see how the student performed on the assignment based on the judgement of the reviewer.

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#### **4.2.11 View Students in a Course**

Selecting the student button in the appropriate course row from the teacher's landing page will provide the teacher with a list of students enrolled in that particular course.

#### **4.2.12 View Reviewers in a Course**

Selecting the reviewers button in the appropriate course row from the teacher's landing page will provide the teacher with a list of reviewers enrolled in that particular course

#### **4.2.13 View Story by a Student**

A teacher can view the story submitted by the student for an assignment by navigating to the list of students for the desired course and then selecting assignments for that student. Then the teacher can view the story by selecting the title of the story under student submission.

#### **4.2.14 Delete Student from Course**

A teacher can delete a student from a course by selecting the course and then hitting the red 'x' in the row as the student they want to delete. A pop-up will ask if the teacher is sure they want to delete the student and they can continue or close the pop-up to cancel. When a student is deleted, a new class confirmation code will appear and the old confirmation code will no longer be valid. The teacher will need to provide this new code offline.

Furthermore, deleting a student from a course does not delete them from the system, only from access to that one specific course.

#### **4.2.15 Delete Reviewer from Course**

A teacher can delete a reviewer from a course by selecting the course and then hitting the red 'x' in the row as the reviewer they want to delete. A pop-up will ask if the teacher is sure they want to delete the reviewer and they can continue or close the pop-up to cancel. When a reviewer is deleted, a new class confirmation code will appear and the old confirmation code will no longer be valid. The teacher will need to provide this new code offline.

Furthermore, deleting a reviewer from a course does not delete them from the system, only from access to that one specific course.

#### **4.2.16 Student Enroll for Course**

The student adds a course number given to them by their instructor to enroll for a course. Once completed the course should then appear in the course options on the student's home page.

#### **4.2.17 Student Enter Course Home**

The student should be able to choose a button for the course they would like to enter. Upon entering the course the student should be able to see a list of current assignments to work on as well as a list of submitted assignments for this course.

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#### **4.2.18 Student Choose Current Assignment from Course Home**

Once a student chooses a current assignment to work on, they should be redirected to a page listing the assignment name and description. They should also have options to view a strategy video, brainstorm ideas, and to write.

#### **4.2.19 Student Chooses to Watch Strategy Video**

While in the current assignment, if a student chooses the watch strategy video option they should be redirected to a page that contains their strategy video for this assignment plus the page should retain the assignment name and description. They should still have navigation options available.

#### **4.2.20 Student Chooses to Brainstorm Ideas**

While in the current assignment, if a student chooses the brainstorm option they should be redirected to a page that contains a drawing tool where they may brainstorm for this assignment plus the page should retain the assignment name and description. They should still have navigation options available.

#### **4.2.21 Student Chooses to Write**

While in the current assignment, if a student chooses the write option they should be redirected to a page that contains a text editor, CKEditor, where they may write for this assignment plus the page should retain the assignment name and description. Upon submit, the page should store their assignment data and notify them of their most recent submission date and time. They should still have navigation options available.

#### **4.2.22 Student Chooses Submitted Assignment from Course Home**

Upon entering a submitted assignment from the course home the student should be able to view the assignment name and description as well as their submitted assignment data. If there are any reviews of their work completed the student should receive notification of this and be provided with a navigation option to view their review(s).

#### **4.2.23 Student Views a Review of Their Assignment**

Upon choosing to view a review of their work that has been completed, the student should be redirected to a view that displays the review scores and any comments. Navigation options should be provided to assist the student to return to a desired view.

#### **4.2.24 Reviewer Adds Course to Review for**

The reviewer adds a course number given to them by the teacher to enroll as a reviewer for that course. Once completed the course should then appear in the course list on the reviewer's home page.

#### **4.2.25 Reviewer Watches Training Video**

The reviewer upon entering the course for the first time will watch a training video. When the training video is selected, they will be redirected to the page that contains the proper video. The reviewer may watch the video as many times as needed.

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#### **4.2.26 Reviewer Enters a Course They Are Reviewing for**

The reviewer should select the course they would like to enter from their list of courses the reviewer is allowed to review for. Upon entering the course the reviewer will see a list of submitted stories the reviewer can review.

#### **4.2.27 Reviewer Chooses a Story to Review from Course List**

Once a reviewer chooses a story to review, they will be redirected to a page that has the assignment name, description, title of the story, and the story to review. The reviewer will select the appropriate score from the drop down boxes and make any necessary comments before submitting.

#### **4.2.28 System Administrator Generates Classroom Code for Teacher**

The system administrator can generate new codes for teachers to be able to register to *WriteItUp!*. Codes can also be removed or marked by the admin as unavailable for use.

#### **4.2.29 System Administrator Views All Assignments**

The system administrator should be able to select an assignments tab to view all assignments. Upon this selection the system administrator should be presented with all of the assignments and the option to add a new assignment.

#### **4.2.30 System Administrator Add Assignment Instructions and Detail**

The system administrator should be able to add an assignment by selecting the add assignment button and be provided with the option to add an assignment name, assignment details and a link to an assignment instruction video.

#### **4.2.31 System Administrator View All Registered Students**

The system administrator should be able to view a list of all registered students. Options to view student stories and remove student should appear for each student listed.

#### **4.2.32 System Administrator Removes a Student**

The system administrator can remove the students from *WriteItUp!* if their accounts are abusive or invalidated. From the System admin home page, the admin selects students to generate of all students using *WriteItUp!* and can remove them by clicking the remove button and accepting the prompt. Removing a student removes all related stories and reviews associated with those stories. Removing a student also regenerates the “class code” in all classes they were in.

#### **4.2.33 System Administrator Views Student Works**

The system administrator can view all the stories and associated reviews from a certain student by first selecting the student from the student list and selecting the “stories” button. The page shows a list of story names and the full text of the stories, the number of reviews, and buttons to see those reviews.

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#### **4.2.34 System Administrator Views Reviews Associated With a Student Story**

The system administrator can view reviews from a certain student and story by first selecting the student from the student list and selecting the “stories” button. The page shows a list of story names and the full text of the stories, the number of reviews, and buttons to see those reviews. Clicking on either of the reviews takes the admin to a page with the scores and reviewer comments.

#### **4.2.35 System Administrator Views All Registered Teachers**

The system administrator should be able to view a list of all registered teachers. Options to view teacher courses and remove teacher should appear for each teacher listed.

#### **4.2.36 System Administrator Removes a Teacher**

The system administrator can remove the teachers from *WriteItUp!* if their accounts are abusive or invalidated. From the System admin home page, the admin selects teachers to generate of all teachers using *WriteItUp!* and can remove them by clicking the remove button and accepting the prompt. Removing the teacher removes all associated classes and removes students from those classes.

#### **4.2.37 System Administrator Views Courses Associated With a Teacher**

The system administrator can view classes associated with teachers on *WriteItUp!*. From the System admin home page, the admin selects teachers to generate of all teachers using *WriteItUp!*. From this page the admin can select classes to view a list of that teacher’s courses, the end dates, confirmation code, list of students in the course, and list of reviewers reviewing for the course.

#### **4.2.38 System Administrator Views Course Detail**

Upon viewing course details the system administrator should see the assignments associated with that course and be provided with the option to view the assignment details.

#### **4.2.39 System Administrator Views Class Assignment Details**

Upon selecting to view assignment details the system administrator should be presented with the corresponding assignment name, description and strategy video.

#### **4.2.40 System Administrator Views Students Enrolled in a Class**

Upon selecting to view students of a particular course the system administrator should be presented with a list of student names enrolled for the corresponding course.

#### **4.2.41 System Administrator Views Reviewers Reviewing for a Class**

Upon selecting to view reviewers of a particular course the system administrator should be presented with a list of reviewer names reviewing for the corresponding course.

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#### **4.2.42 System Administrator Views All Registered Reviewers**

The system administrator should be able to view a list of all registered reviewers. Options to view the reviewers reviews and remove reviewer should appear for each reviewer listed.

#### **4.2.43 System Administrator Removes a Reviewer**

The system administrator can remove the reviewers from *WritelUp!* if their accounts are abusive or invalidated. From the System admin home page, the admin selects reviewers to generate of all reviewers using *WritelUp!* and can remove them by clicking the remove button and accepting the prompt. Removing the teacher removes all associated classes and removes students from those classes.

#### **4.2.44 System Administrator Views Reviews Performed by a Specific Reviewer**

Upon selecting reviews for a specific reviewer the system administrator should be able to view all the reviews conducted by the corresponding reviewer.

### 4.3 TEST RESULTS FOR FUNCTIONAL REQUIREMENTS

Test Results		
Test	Pass on Mac/Windows	Recommendation
4.2.1	Pass/Pass	-
4.2.2	Pass/Pass	-
4.2.3	Pass/Pass	-
4.2.4	Pass/Pass	-
4.2.5	Pass/Pass	-
4.2.6	Fail/Fail	Delete button is non-responsive
4.2.7	Pass/Pass	Allow teachers to add to description of assignment or provide additional information.
4.2.8	Pass/Pass	-
4.2.9	Pass/Pass	-
4.2.10	Pass/Pass	See the reviews made by reviewers in future version(s)
4.2.11	Pass/Pass	Ability to see all students
4.2.12	Pass/Pass	-
4.2.13	Pass/Pass	-
4.2.14	Fail/Fail	Delete button is non-responsive
4.2.15	Fail/Fail	Delete button is non-responsive
4.2.16	Pass/Pass	-
4.2.17	Pass/Pass	-
4.2.19	Pass/Pass	-
4.2.20	Pass/Pass	-
4.2.21	Pass/Pass	A tool which allows saving the brainstorm data in a user friendly manner and in a way the Admin can view for later use.
4.2.22	Pass/Pass	-

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Test Results		
4.2.23	Pass/Pass	-
4.2.24	Pass/Pass	-
4.2.25	Pass/Pass	Change the button 'add class' to 'add course' to be consistent with UI design.
4.2.26	Pass/Pass	Disable being able to reviews stories until the reviewer has watch the instruction video at least once.
4.2.27	Pass/Pass	-
4.2.28	Pass/Pass	-
4.2.29	Pass/Pass	-
4.2.30	Pass/Pass	
4.2.31	Pass/Pass	
4.2.32	Fail/Fail	Delete button is non-responsive
4.2.33	Pass/Pass	Story should retain its html formatting in a user friendly view, or formatting should be removed using RegEx.
4.2.34	Pass/Pass	-
4.2.35	Pass/Pass	-
4.2.36	Fail/Fail	Delete button is non-responsive
4.2.37	Pass/Pass	-
4.2.38	Pass/Pass	-
4.2.39	Pass/Pass	-
4.2.40	Pass/Pass	-
4.2.41	Pass/Pass	-
4.2.42	Pass/Pass	-
4.2.43	Fail/Fail	Delete button is non-responsive
4.2.44	Fail/Fail	Upon selecting the button it faults and a page opens which provides information of a compilation error.

## **4.4 KNOWN/DISCOVERED ISSUES**

### **4.4.1 Reviewer and Student Confirmation Code**

Reviewers use the same code as students in order to enlist in a class (the classroom code). This will not prevent a student from having the ability to register as a reviewer. This was discovered after the most recent testing phase and a fix has not yet been implemented. A possible fix is to have teachers generate a reviewer code for reviewers, similar to the one the system administrator generates for teachers. The reviewer can then use the course code and the given reviewer code to enlist in a course.

### **4.4.2 Teacher Register as Reviewer or Reviewer Registers as Teacher**

Currently, when a teacher tries to register as a reviewer from the teacher page or the reviewer tries the register as a teacher from their page, the user is redirected to a not found webpage. This is due to a race condition and an authentication condition using roles that has yet to be rectified. If the users logs off of WriteltUp and then signs back in, they will have permission to access both the reviewer and the teacher page.

### **4.4.3 Delete Buttons**

Currently, our delete buttons are not functioning correctly due to a JQuery issue. The issue seems related to either not locating the JQuery class or a problem in one of our JQuery scripts. This error may have to do with refactoring WriteltUp as it may have unintentionally changed part script code. Once the JQuery is corrected and the buttons are responsive, they should correctly delete the item they are associated with as the backend code is still correct and functioning.

### **4.4.4 System Admin Cannot Remove Assignments**

There is no way for the SystemAdmin to remove an assignment. Completely removing the assignment from the database would mess up features that rely on that assignment such as viewing past assignments, so it is likely a feature will need to be created to track the list of active assignments that can be currently assigned by the teacher, and the list of all legacy assignments which needs to exist for database consistency.

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## 5. FUTURE IMPLEMENTATION DETAILS

### 5.1 FUTURE IMPLEMENTATIONS

Future updates will be needed to incorporate functionality that was not implemented at this time.

#### 5.1.1 Voice Recording

The planning page will have a voice recording option so that students who have trouble typing can use voice commands instead.

#### 5.1.2 Timer

A timer will be implemented on both the planning page and the text page to determine how long a student spends in each category.

#### 5.1.3 View Past Reviews

Allow teachers or reviewers to look at reviews that have already been made.

#### 5.1.4 Discussion Between Reviewers

Allow reviewers to discuss the review of a particular story to determine one overall score.

#### 5.1.5 Compare Two Conflicting Reviews

Allow reviewers to compare the conflicting scores from different reviewers.

#### 5.1.6 Comments for Conflicting Reviews

Allow reviewers to leave comments for other reviewers to read so that they can come to a determination for one final score.

#### 5.1.7 Conflict Resolution

Revise reviews so that they can be submitted for the student to view one overall score. Currently the student views both reviews.

#### 5.1.8 Teacher View Past and Current Assignments

Currently, teachers retain assignments indefinitely but giving them two view pages for both current and past assignments would be more user friendly.

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## 6. PROJECT AMENDMENT

### 6.1 PROJECT UPDATES SINCE INITIAL COMPLETION AND TESTING

#### 6.1.1 Reviewer Scoring

Dr. Dunn requested changes to reviewer scoring since the time the documentation was written. These changes have been implemented and weakly tested, but there was not sufficient time for them to be thoroughly tested.