K12GradeTracker

CHARTER

Vision

A custom package software for teachers with automated grade-computing system packaged with a friendly user interface and high user experience.

Mission

To provide quality software and automated online class record for teachers to eliminate the disadvantages of keeping a class record on hand.

Objective

After project initiation, that is after October 5, 2015,

- On the first week, the team will be able to come up with the feature list with UML sequence diagram or state diagram
- On the second week, the team will be able to hand out to the client the front-end design of the application
- On the fourth week, the team will be able to show to the client the "Manage Subjects" feature (Add/Delete/Update subjects).
- On the second week of the second month, the team will be able to show to the client the "Manage Sections" feature (Add/Delete/Update sections).
- On the third month, the team will be able to show to the client the "Manage Assessments" feature (Add/Delete/Update assessments).
- On the second week of the third month, the team will be able to show to the client the "Manage Assessment Scores" feature (Add/Delete/Update scores).
- On the third week of the third month, the team will be able to show to the client the overall product.
- On the day after the objectives above are met, the client will be able to keep track of the records of their students efficiently and comfortably

Principles

- ✓ Customer satisfaction is of primary importance

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FEATURE

Feature List

- ❖ Sign-up
- ❖ Login
- ❖ Create a subject
- ❖ Delete a subject
- ❖ Update a subject
- ❖ Create a section
- ❖ Delete a section
- ❖ Update a section
- ❖ Add students in a section
- ❖ Remove students in a section
- ❖ Update students in a section
- ❖ Create new assessments
- ❖ Delete assessments
- ❖ Update assessments
- ❖ Record the students' assessment results
- ❖ Edit the recorded students' assessments
- ❖ View the grades of the students
- ❖ Change grading period
- ❖ Log-out

Feature Acceptance Criteria

- o Sign-up
    - ✓ On successful sign-up, the user will be redirected to a welcome page.
- o Log in
    - ✓ On successful login, users will be redirected to the dashboard.
- o Create a subject
    - ✓ Add the created subject on the list.
- o Delete a subject
    - ✓ Remove the selected subject from the list.
- o Update a subject
    - ✓ Updates the subject name and its subject type.
- o Create a section
    - ✓ Add the created section on the list.
- o Delete a section

- ✓ Remove the section from the list.
- o Update a section
  - ✓ Updates the section name on the list.
- o Add student in a section
  - ✓ Add the new student on the list.
- o Remove student from a section
  - ✓ Remove the selected student on the list.
- o Update student in a section
  - ✓ Updates the student's information.
- o Create assessments
  - ✓ Add the created assessment on the list.
- o Delete assessments
  - ✓ Removes the assessment on the list.
- o Update assessment
  - ✓ Updates the assessment's name, total and value.
- o Record the students' assessment results
  - ✓ Record the assessment results.
- o Edit the student's assessment results
  - ✓ Updates the assessment's results
- o View the grades of the students
  - ✓ Show the list of the students with their corresponding grades.
- o Change grading period
  - o Allows the user to change the current grading period.
- o Log-out
  - ✓ User will be redirected to the landing page.

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STORY

Roles

Teacher – keeps the tracking and encoding of the students' grades

Role Attributes

Teacher

- **Frequency of use –** Every day
- **Domain expertise –** Understands the general area
- **Computer expertise –** Low
- **General goals –** High user experience

Persona

Teacher

Stephanie keeps track of her student's assessment all the time. She signs in one day and uses the system to keep track of her records. Though she is not up-to-date with all the current technology, she was automatically and confidently rest assured that she can use the system with ease upon seeing the user interface while experiencing a great comfort and easiness in using the system.

Stories

- As a teacher, I want to create a new subject.
- As a teacher, I want to delete a subject.
- As a teacher, I want to update a subject.
- As a teacher, I want to create a new section.
- As a teacher, I want to delete a section.
- As a teacher, I want to update a section.
- As a teacher I want to add students in my section.
- As a teacher, I want to remove students from my section.
- As a teacher, I want to update the students' name in my section.
- As a teacher, I want to create new assessment for my subject.
- As a teacher, I want to delete assessments from my subject.
- As a teacher, I want to update assessments from my subject.

- As a teacher, I want to record the assessment results of my students in a subject.
- As a teacher, I want to edit the assessment results of my students in a subject.
- As a teacher, I want to view the grades of my students in a particular subject.
- As a teacher, I want to change the current grading period.
- As a teacher, I want to log out from the system.
- As a teacher, I want to login into the system.
- As a teacher, I want to inform other teachers to use this system and let themselves signup.

Story Acceptance Criteria

- Create a new subject
  - Create a new subject. Check to see if the created subject is added on the list.
- Delete a subject
  - Delete a subject. Check to see if the chosen subject is removed from the list.
- Update a subject
  - Update the subject name and information. Check to see if the chosen subject is updated.
- Create a new section
  - Create a new section. Check to see if the created section is added on the list.
- Delete a section
  - Delete a section. Check to see if the chosen section is removed from the list.
- Update a section
  - Update the section name. Check to see if the chosen section is updated in the list.
- Add students in a section
  - Add the student on the list. Check to see if the student is added on the list.
- Remove students from a section

- o Remove the student from the list. Check to see if the student is removed from the list.
- Update students from a section
  - o Edits the information of the student. Check to see if the student's information is updated.
- Create a new assessment
  - o Create a new assessment. Check to see if the new assessment is added on the list.
- Delete assessments
  - o Delete the chosen assessment. Check to see if that assessment is removed from the list.
- Update assessments
  - o Edits the assessments' information. Check to see if the assessment's information is updated.
- Record the students' assessment results
  - o Record the student's grade. Check to see that the grade is recorded.
- Edit the student's assessment scores
  - o Edit the student's scores in the assessments. Check to see if the grades are updated.
- View the grades of the students
  - o View the grades of the students. Check to see if the system generates a list of the student with their corresponding grades.
- Change grading period
  - o Change the current grading period. Check to see if the current grading period is updated.
- Login
  - o Login into the system. Check to see if I am redirected to the dashboard.
- Logout
  - o Logout from the system. Check to see if I am fully logged out and redirected to the login page.
- Signup
  - o Signup and register into the system. Check to see if I am fully registered and authenticated as a user in the system.

Customer Terms

Assessment – daily activities (e.g. quizzes, assignments, quarterly exams, attendance)

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SCENARIO

Use Case

Name – Login
Description – The teacher logs in into the system.
Actor – Teacher.
Pre-conditions – The teacher is in the log in page.
Post-conditions – The teacher is authenticated and is redirected to the dashboard.
Main course
1. The teacher enters her username and password.
    a. The username and password did not match (Business Rule #1). Repeat step 1.
    b. Empty forms (Business Rule #2). Repeat step 1.
2. The system authenticates the user and is redirected to the dashboard.
3. Use case exits.

Business Rules
1. Username and password should match.
2. The forms are required and should not be empty.

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Name – Signup
Description – A teacher registers and fills up the sign up forms.
Actor – Teacher.
Pre-conditions – The teacher is in the signup in page.
Post-conditions – The teacher is registered, authenticated and redirected to the dashboard.
Main course
1. The teacher fills up the form.
    a. Form is empty (Business Rule #1). Repeat step 1.
    b. Username already exists (Business Rule #2). Repeat step 2.
2. The system registers the new account.
3. The new account is authenticated and redirected to the dashboard.
4. Use case exits.

Business Rules

1. The teacher's name, username, email and password should never be empty.
2. Every username is unique – that is, there should only be one username that exists and redundancy is not allowed.

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Name – Logout

Description – The teacher logs out.

Actor – Teacher.

Pre-conditions – The teacher is logged in.

Post-conditions – The teacher is logged out from the system and is redirected to the login page.

Main course

1. The teacher clicks the log out button.
2. Use case exits.

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Name – Create a subject.

Description – Adds a new subject on the list.

Actor – Teacher.

Pre-conditions – The teacher is logged in and is in the "Manage Class" page.

Post-conditions – The new subject is added on the list and is displayed to the teacher.

Main course

4. The teacher enters the name of the class, its section and subject type.
   a. The teacher enters a subject-section combination that already exists in the current school year (Business Rule #1). Repeat step 1.
   b. The teacher enters an empty form (Business Rule #2). Repeat step 1.
5. The class is added on the list.

6. The system will show the newly updated list of subject.
7. Use case exits.

Business Rules
3. There will only be one unique combination of a subject and section in a school year.
4. Subject name should not be empty.

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Name – Delete a subject.
Description – Removes a subject from the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Class" page.
Post-conditions – The subject is removed from the list.
Main course
1. The teacher chooses the class to be deleted.
2. The subject is removed from the list.
3. The system will show the newly updated list of subject.
4. Use case exits.

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Name – Update a subject.
Description – Edits a subject name and its information from the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Class" page.
Post-conditions – The subject is updated from the list.
Main course
1. The teacher chooses the class to be updated.
   a. The teacher enters a subject-section combination that already exists (Business Rule #2). Repeat step 1.
   b. The teacher enters an empty form (Business Rule #1). Repeat step 1.
2. The subject is removed from the list.

3. The system will show the newly updated list of subject.
4. Use case exits.

Business Rules
1. There will only be one unique combination of a subject and section in a school year.
2. Subject name should not be empty.

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Name – Create a section.
Description – Adds a new section on the list.
Actor - Teacher
Pre-conditions – The teacher is logged in and is in the "Manage Section" page.
Post-conditions – The section is added on the list.
Main Course
1. The teacher enters the name of the section.
   a. The teacher enters an empty form (Business Rule #1). Repeat step 1.
   b. The teacher enters a section name that already exists in the current school year (Business Rule #2). Repeat step 1.
2. The section is added on the list.
3. The system will show the updated list of sections
4. Use case exits.

Business Rules
1. Section name should not be empty.
2. There will only be one unique section name in a school year.

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Name – Delete a section.
Description – Removes a section from the list.
Actor - Teacher
Pre-conditions – The teacher is logged in and is in the "Manage Section" page.

Post-conditions – The section is removed from the list.
Main Course
1. The teacher chooses the section to be deleted.
2. The section is removed from the list.
3. The system will show the newly updated list of sections.
4. Use case exits.

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Name – Update a section.
Description – Edits a section name from the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Section"
page.
Post-conditions – The section is updated from the list.
Main course
1. The teacher chooses the section to be updated.
   a. The teacher enters a section name that already exists
      (Business Rule #2). Repeat step 1.
   b. The teacher enters an empty form (Business Rule #1).
      Repeat step 1.
2. The section is updated from the list.
3. The system will show the newly updated list of sections.
4. Use case exits.
Business Rules
1. Section name should not be empty.
2. There will only be one unique section name in a school year.

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Name – Add student.
Description – Adds a student in a section.
Actor - Teacher
Pre-conditions – The teacher is logged in and is in the "Manage Students"
page.
Post-conditions – The student is added on the list.

Main course

1. The student enters a name of a student.
   a. The user enters an empty form (Business Rule #1). Repeat step 1.
   b. The user enters an existing student name in the current section (Business Rule #2). Repeat step 1.
2. The new student is added on the list.
3. The system will show the newly updated list of students.
4. Use case exits.

Business Rules

1. The student name should not be empty.
2. Every student name should be unique and redundancy is not accepted.

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Name – Remove student.
Description – Removes a student from the section.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Students" page.
Post-conditions – The student is removed from the list.
Main course

1. The teacher chooses the student to be removed.
2. The student is removed from the class.
3. The system will show the newly updated list of students.

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Name – Update a student.
Description – Edits the student name from the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Student" page.
Post-conditions – The student is updated from the list.
Main course

1. The teacher chooses the student to be updated.

      c. The teacher enters a student name that already exists (Business Rule #2). Repeat step 1.

      d. The teacher enters an empty form (Business Rule #1). Repeat step 1.

2. The student is updated from the list.
3. The system will show the newly updated list of student.
4. Use case exits.

Business Rules

1. The student name should not be empty.
2. Every student name should be unique and redundancy is not accepted.

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Name – Create a new assessment.
Description – Adds a new assessment on the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Assessments" page.
Post-conditions – The new assessment is added on the list.
Main course

1. The teacher enters the name of the assessment, total and component type.

      a. The teacher enters an empty form (Business rule #1). Repeat step 1.

      b. The teacher enters an already existing assessment name (Business Rule #2). Repeat step 1.

2. The new assessment is added on the list.
3. The system will show the newly updated list of assessments.
4. Use case exits.

Business Rules

1. There should be no empty assessment name.
2. Every assessment name should be unique in a particular subject.

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Name – Delete assessment.
Description – Removes an assessment on the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Assessments" page.
Post-conditions – The assessment is deleted from the list.
Main course
1. The teacher chooses the assessment to be deleted.
2. The assessment is removed from the list.
3. The system will show the newly updated list of assessments.
4. Use case exits.

_____

Name – Update an assessment.
Description – Edits an assessment name from the list.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "Manage Assessments" page.
Post-conditions – The assessment is updated from the list.
Main course
1. The teacher chooses the assessment to be updated.
   a. The teacher enters an assessment name that already exists (Business Rule #2). Repeat step 1.
   b. The teacher enters an empty form (Business Rule #1). Repeat step 1.
2. The assessment is updated from the list.
3. The system will show the newly updated list of assessments.
4. Use case exits.
Business Rules
1. There should be no empty assessment name.
2. Every assessment name should be unique in a particular subject.
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Name – Record the student's assessment results
Description – Records and saves the student's assessment results.
Actor – Teacher.

Pre-conditions – The teacher is logged in and is in the "Manage Scores" page.

Post-conditions – The score is recorded.

Main course

1. The teacher enters the score of the student.
    a. The teacher enters a negative score (Business rule #2). Repeat step 1.
    b. The teacher enters a score greater than the total (Business rule #1). Repeat step 1.
    c. The teacher enters an empty score (Business rule #3). Repeat step 1.
2. The score is recorded on the system.
3. The system will show the recorded score of the student.
4. Use case exits.

Business Rules

1. The score should not be greater than the total.
2. There should be no negative scores.
3. There should be no empty score.

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Name – Edit the student's assessment results.

Description – Updates the student's assessment results.

Actor – Teacher.

Pre-conditions – The teacher is logged in and is in the "Manage Scores" page.

Post-conditions – The score is updated.

Main course

1. The teacher enters the score of the student.
    a. The teacher enters a negative score (Business rule #2). Repeat step 1.
    b. The teacher enters a score greater than the total (Business rule #1). Repeat step 1.
    c. The teacher enters an empty score (Business rule #3). Repeat step 1.
2. The score is recorded on the system.

3. The system will show the updated score of the student.
4. Use case exits.

Business Rules
1. The score should not be greater than the total.
2. There should be no negative scores.
3. There should be no empty score.

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Name – View the grades of the students.
Description – Show to the user the grades of the students.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the "View Students' Grades" page.
Post-conditions – The grades are shown to the teacher.
Main course
1. The teacher clicks the view button.
2. The system will automatically compute the students' grades depending on the chosen grading period.
3. The system will show the grades of the students.
4. Use case exits.

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Name – Change grading period
Description – Updates and changes the current grading period.
Actor – Teacher.
Pre-conditions – The teacher is logged in and is in the dashboard.
Post-conditions – The grading period is updated and saved.
Main course
1. The teacher selects the grading period.
    a. The teacher selects a grading period that had already passed by (Business Rule #1).
2. The new grading period is saved and is shown to the teacher.
3. Use case exits.

Business Rule

1. Teacher can't go back to the past grading periods.

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