Links

Github: https://github.com/nishant-basu-tamu3/student knowledge system

Pivotal Tracker: https://www.pivotaltracker.com/n/projects/2721032
Deployed Application: https://hive-sks-c9da748e2491.herokuapp.com/

Dates

The Sprint lasted from November 4th to November 15th.

Team Members

Total Points Completed: 13

Scrum Master: Ellika Mishra, completed 3

Product Owner: Raunak Kharbanda, completed 3

Dev: Nishant Basu, completed 3

Dev: Prakhar Suryawansh, completed 5

Dev: Susheel, completed 2 Dev: Mukil, completed 2

Dev: Aum Palande, completed 2

Sprint Goal

Our Sprint goal was to add the streak functionality, statistics for quiz data and fix any server issues occurring on the website. We also helped our client run the system locally.

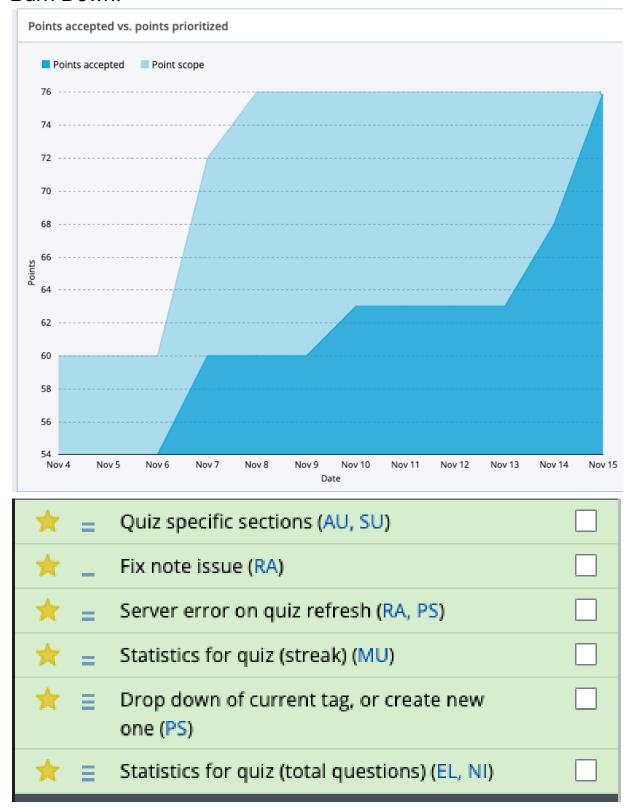
Sprint Achievements

We completed the new functionality for the quiz statistics plus streak and fixed the server issues. Fixing the tag issues was also another point for the sprint. We also fixed the nite not visible issue on the website. We faced an issue with the edge case when the professor accidentally inserted a space to the course end name and the system was not able to fetch the quiz data for the course. Additionally, we helped our client setup the project on a local machine. We continued to work on both rubocop and code coverage, reducing the rubocop offenses to below 100 and increasing the coverage to 90%. Overall, we achieved 13 out of the 13 story points planned. We have implemented the statistics functionality, streak functionality and fixed the remaining bugs. We are working towards making the project more presentable and easy to use for future teams.

Sprint Backlog

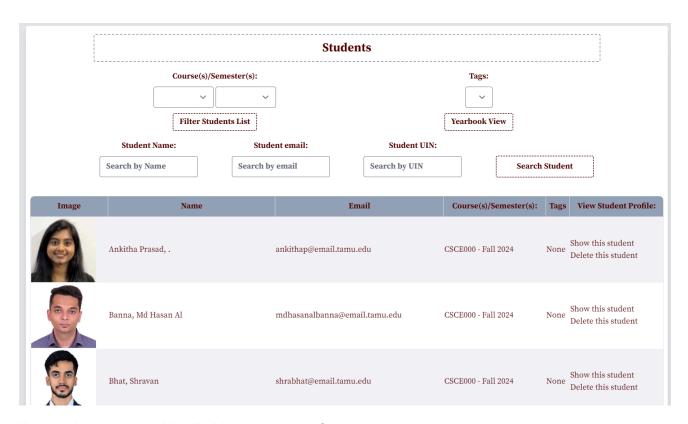
- Quiz server error on refresh occasionally
- Code coverage > 90%

Burn Down:

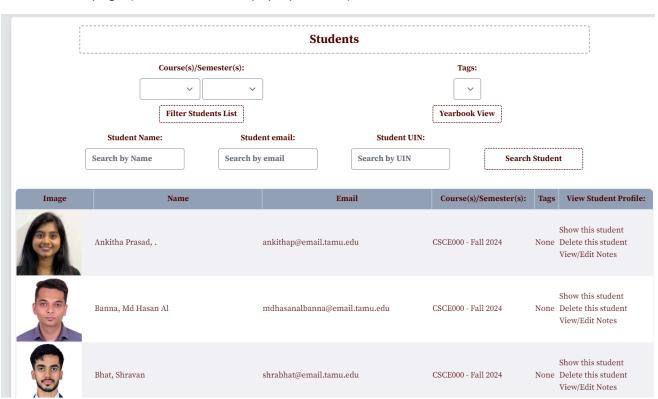


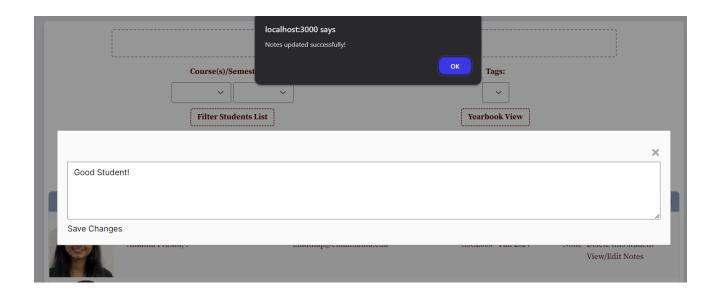
Design Diagram

Old students page (without note pop-up feature):

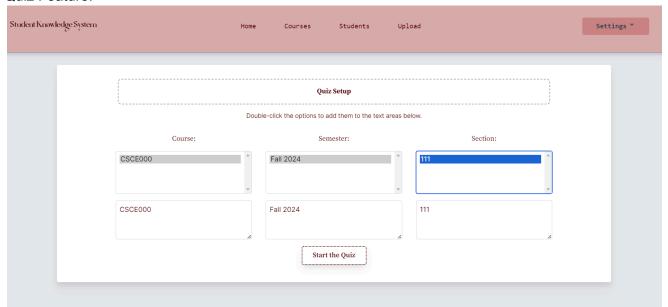


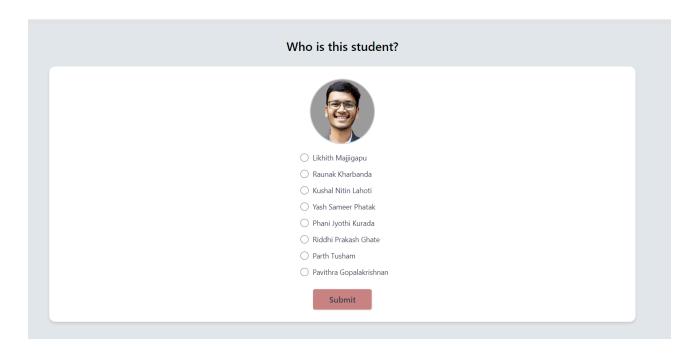
New students page (with editable note pop-up feature):



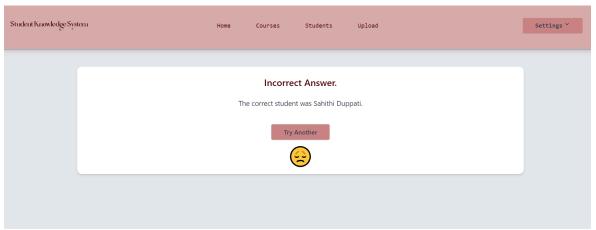


Quiz Feature:



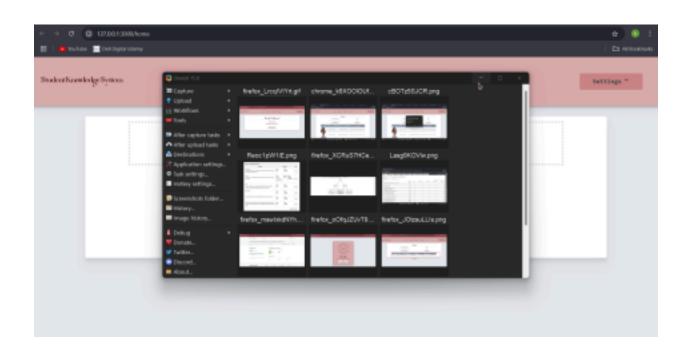






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	Howdy Professor!		
	Welcome Back! Students due for you to practice: 0		
	View Mane Statistics		

New:

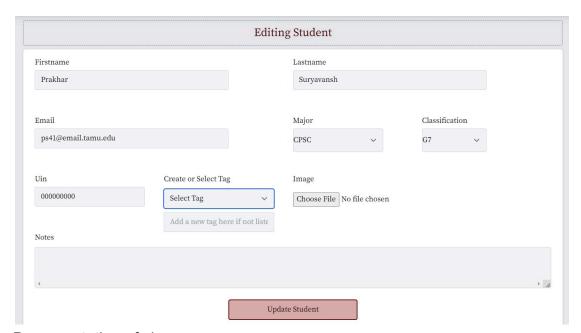


Tag Drop Down:

Old:



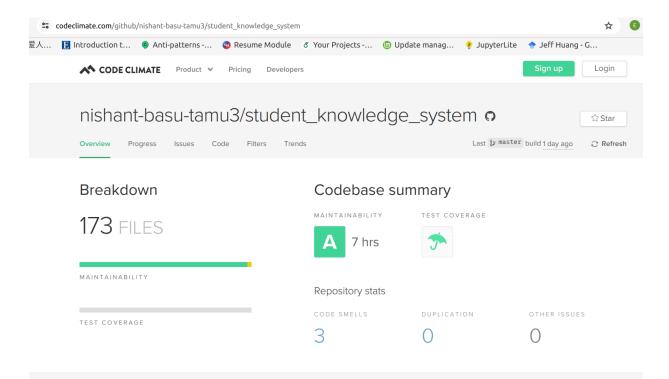
New:



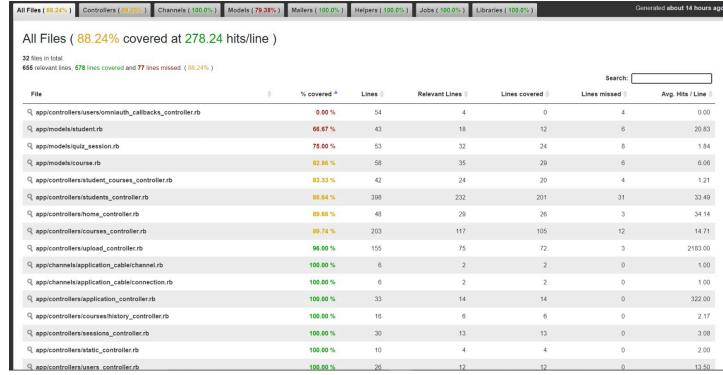
Documentation of change:

Docs HIVE SKS Code Evaluation

Code Climate: https://codeclimate.com/github/nishant-basu-tamu3/student_knowledge_system



Simple Cov: 88.24 %



RSpec examples: 84 - 26 new examples.

Cucumber scenarios: 28 - Same number as before sprint.

Customer Meeting

We met with Dr. Lightfoot on November 20, from 4:30pm to 5:30pm. He was satisfied with the streak and statistics features in the project and overall progress we have made throughout the semester.

BDD/TDD:

- 1. Create a quiz streak feature to showcase the highest number of correct answers by client so far.
- 2. Rubocop offenses less than 100

The code remains intact in this part just the way it was written is changed hence it does not change the existing functionality, hence no TDD or BDD can be done on this type of story.

- 3. Adding statistics to the guiz data to show the number of students visited etc.
- 4. Drop down of current tag and create new tag feature added.
- 5. Fix server error on quiz refresh.
- 6. Fix note issue not visible online.
- 7. Improvements of test

Some tests were failing therefore improvements done.

a. BDD: ./app/features/quiz.feature

```
Scenario: Answering the quiz incorrectly
     Given students are enrolled in their respective courses
     When I sign in as "team_cluck_admin@gmail.com"
And I click on "Practice now!"
When I select "CSCE 411" from "courses[]"
     And I select "501" from "sections[]"
     And I select "Spring 2023" from "semesters[]"
And I click "Start the Quiz"
    And I submit my answer
Then I should see that my answer is incorrect
And the student's practice interval should be halved if it was greater than 15
     And the student's last practice time should be updated
Scenario: Answering the quiz correctly
     Given students are enrolled in their respective courses When I sign in as "team_cluck_admin@gmail.com"
     And I click on "Practice now!"
     When I select "CSCE 411" from "courses[]"
     And I select "501" from "sections[]"
And I select "Spring 2023" from "semesters[]"
And I click "Start the Quiz"
     When I select the correct answer
     And I submit my answer
     Then I should see that my answer is correct
     And the student's practice interval should be doubled And the student's last practice time should be updated
```

b. TDD: ./app/spec/controllers/quiz_controller_spec.rb

8. Courses.features

a. BDD: ./app/features/courses.feature:

```
Scenario: If course doesnt exist show "Given Course not found." (HTML Response)

Given students are enrolled in their respective courses

When I sign in as "team_cluck_admin@gmail.com"

And I visit a course page with an invalid course ID in HTML format

Then I should be redirected to the courses page with a "Given course not found." not

Scenario: If course doesnt exist show JSON Response − E 204

Given students are enrolled in their respective courses

When I sign in as "team_cluck_admin@gmail.com"

And I visit a course page with an invalid course ID in JSON format

Then I should receive a "204 No Content" JSON response
```

9. Tag drop down

BDD: ./app/features/student.feature:

```
When I sign in as "team_cluck_admin@gmail.com"
Given I am on the upload page
When I upload a csv file
When I upload a htm file
And I input form information
When I click save
Then I should see the upload was successful
And I go to the students page
And I select "Fall 2024" under semester
Then I submit the filter form
Then I should see "Prakhar"
When I click show this student
And I click "Edit this student"
When I fill in student "new_tag" with "test"
And I click "Update Student"
When I go to the students page
And I select "test"
When I go to the student page
And I select "test" under tag
Then I submit the filter form
Then I submit the filter form
Then I submit the filter form
Then I should see "Prakhar"
```

10. Code coverage > 90%

To add more coverage, we added test cases for existing controllers to cover uncovered lines and added a test file for the course model.

User Story Completion Table

Name	Total Points By Individual	Total Points By team
Aum	18	76
Ellika	9	76
Mukil	20	76
Nishant	28	76
Prakhar	15	76
Raunak	14	76
Susheel	18	76