



CyberCRM

Sprint 2 Retrospective

July 5, 2024

MATTHEW ATANAS

PATRICK CANNELL

NOAM GARIANI

CHRISTOPHER MUNIZ

WILL TATUM



CyberCRM



CONTENTS

Executive Summary.....	3
Sprint Information.....	3
Links.....	3
Sprint Dates.....	3
Sprint Goal.....	3
Burn Down Chart.....	4
Design Diagrams (UI and ERD).....	4
UI Design.....	4
Entity-Relationship Diagram.....	5
Code and Test Evaluation.....	6
Rubocop.....	6
Code Climate.....	7
Coverage.....	7
Customer Demo.....	7
User Stories.....	8
User Stories.....	8
Program Director.....	8
Work Done.....	8
Sprint Achievements.....	8
Blockers.....	9
Project Management.....	9
Team Roles.....	9
Team Information.....	9
Development Methodology.....	10
Customer Meeting.....	10
Sprint Backlog.....	11



Executive Summary

This is a CRM (Customer Relationship Management) system to use for tracking cybersecurity students so information could be easily accessible to program directors. The primary objective is the ability to pull up a profile page with information on any given student while also having the ability to add or update information on the student. The secondary objective is to be able to run reports on given people or organizations with filters. This could include a list of all the students who have taken a certain certification or in a certain cybersecurity organization.

There will be Role-based access control (RBAC) and have three primary roles: Super User, Program Director, Student Worker. Program Directors could be assigned super user access and student workers have the least permissions with only the ability to add or read in certain specified areas. Program directors by default will only be able to view their program information with their student's information.

Sprint Information

Links

Website: <https://cybercrm-7ccb791b98d3.herokuapp.com/>

Pivotal Tracker: <https://www.pivotaltracker.com/n/projects/2705347>

GitHub: <https://github.com/tamu-edu-students/CyberCRM>

Google Drive: <https://drive.google.com/drive/u/2/folders/0APLVAcl1WKtoUk9PVA>

Code Climate: <https://codeclimate.com/github/tamu-edu-students/CyberCRM>

Sprint Dates

6/21 – 6/30

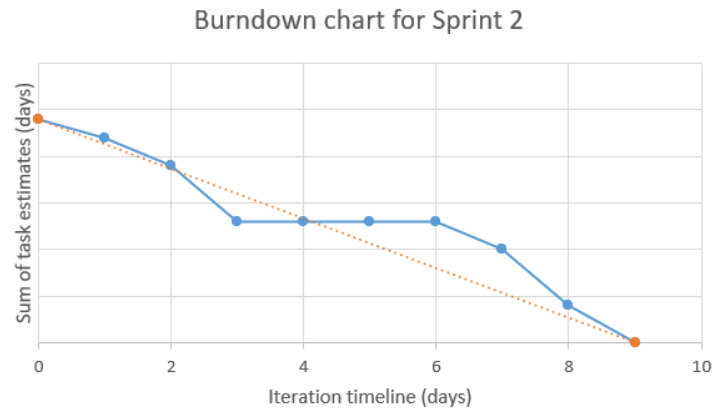
Sprint Goal

The sprint goal was to build a functioning app with realistic sample data. The student table columns were finalized and populated with realistic sample data. The data was presented in a grid that supported CSV export. A search bar that filtered student data was created. CRUD operations allow the user to alter data. Navigating the app is facilitated by a navbar. Cucumber, respect, github actions, and code climate were configured.



Burn Down Chart

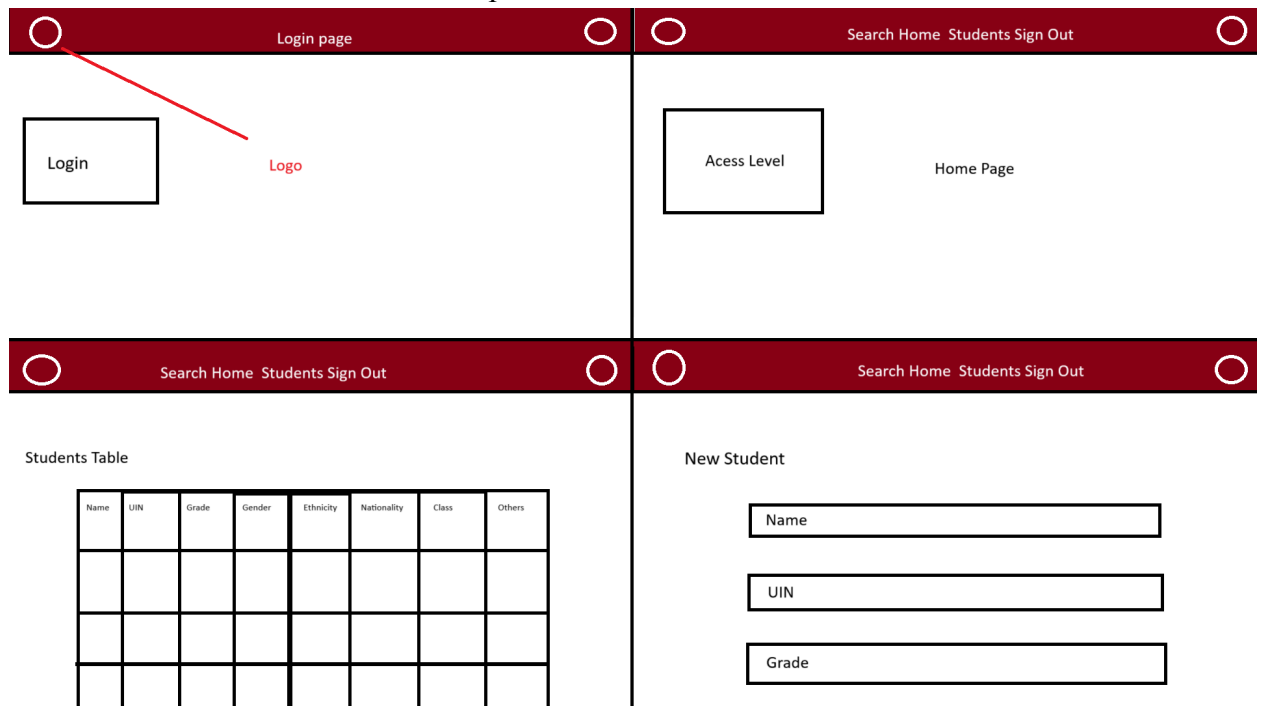
Note: This is self-generated not via pivotal.



Design Diagrams (UI and ERD)

UI Design

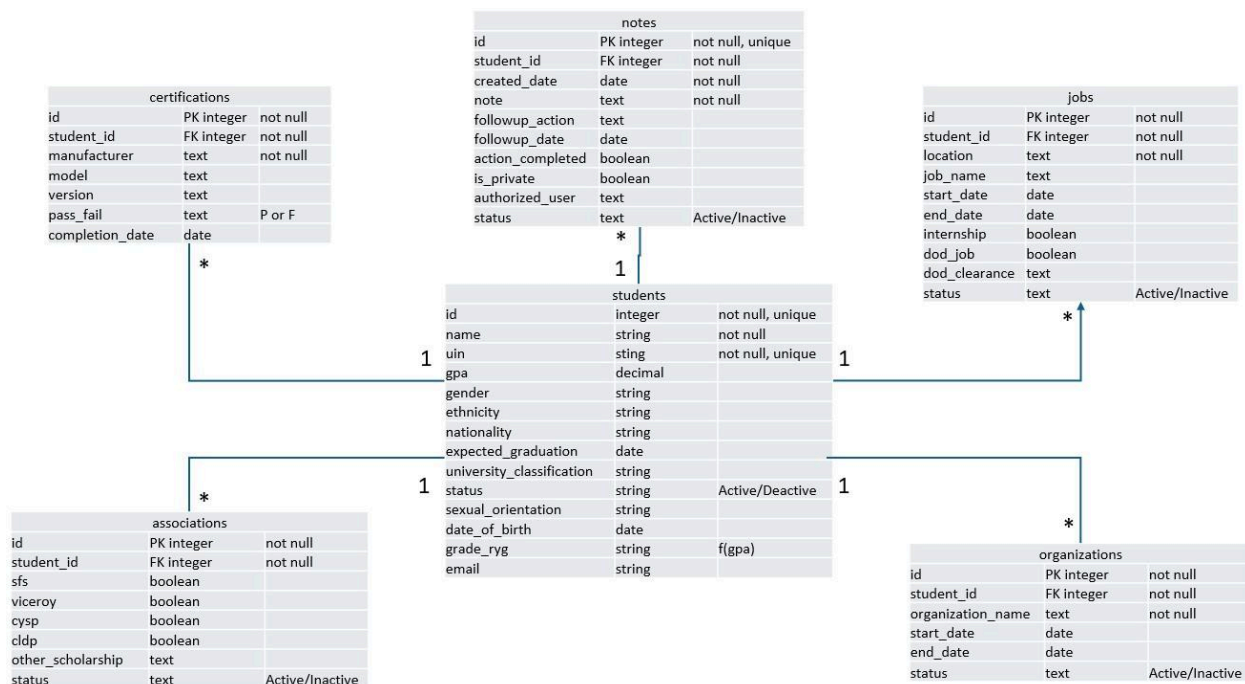
This is a more streamlined version of our original design, and is the basis for how we wanted the website to look after this sprint.





Entity-Relationship Diagram

The biggest new addition is the notes table. A major piece of functionality is the ability to record and date meetings with students. Additionally, a status column will be added to each table except for certifications. The status column enables soft delete so that records can vanish but remain in the database. The students table is the only table that has been created, and the table is populated with realistic data.





Code and Test Evaluation

Rubocop

There were no offenses on Rubocop:

```
Inspecting 78 files
```

```
.....
```

```
78 files inspected, no offenses detected
```

Note that there were some areas where we told rubocop to ignore the recommendations. This is because how our project is formatted and therefore would need to exceed 10 lines in some areas.

Jobs

✓ test

✓ lint

Run details

⌚ Usage

📄 Workflow file

succeeded 5 days ago in 30s

- > ✓ Set up job
- > ✓ Checkout code
- > ✓ Install Ruby and gems
- > ✓ Install dependencies
- > ✓ Install Yarn
- > ✓ Install JavaScript dependencies
- > ✓ Security audit dependencies
- > ✓ Security audit application code
- ✓ Lint Ruby files

```
1 ▶ Run bundle exec rubocop -a --parallel
4 Inspecting 78 files
5 .....
6
7 78 files inspected, no offenses detected
```

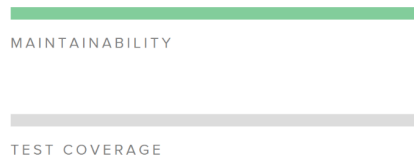
- > ✓ Post Checkout code
- > ✓ Complete job



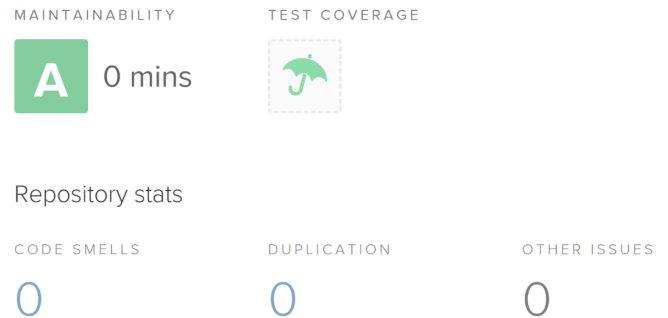
Code Climate

Breakdown

137 FILES



Codebase summary



A score of “A” for maintainability was achieved and Code Climate was able to be connected. Many attempts were made on connecting the test coverage, one of which being the tests found in the actions section of GitHub. It didn’t work to connect this sprint, but next sprint we will try to connect it more.

Coverage

RSpec testing:

Command: `bundle exec rspec`

```
Finished in 0.18573 seconds (files took 1.93 seconds to load)
11 examples, 0 failures

Coverage report generated for Cucumber Features, RSpec to /home/noam/CyberCRM/cybercrm/coverage. 284 / 297 LOC (95.62%) covered.
```

95.62% of lines covered in testing.

Cucumber testing:

Command: `bundle exec cucumber`

```
18 scenarios (18 passed)
104 steps (104 passed)
0m0.817s
Coverage report generated for Cucumber Features to /home/noam/CyberCRM/cybercrm/coverage. 160 / 172 LOC (93.02%) covered.
```

93.02% of lines covered in testing.

Customer Demo

The product owner met with the customer over Zoom on 6/17/24 at 5:00pm to show him the current iteration.



User Stories

User Stories

Program Director

- As a program director, I need to be able to delete a student.
- As a program director, I need to update student information as needed.
- As a program director I need to be able to read all the information about a specified student.
- As a program director, I need to create a new student.
- As a program director, I need to be able to have a csv formatted list of students.
- As a program director, I need to be able to search through student data in a spreadsheet-like view to manage and easily see student data.
- As a program director, I need to have information about students stored.
- As a program director, I need to be able to sort through student data in a spreadsheet-like view to manage and easily see student data.
- As a program director, I need the pages to be functional and designed well.
- As a program director, I need to be able to read all the information about a specified user.

Work Done

Sprint Achievements

- CRUD capabilities for students.
- CSV export for students.
- Search and sort capabilities for students.
- Finalized students table format and fake data.
- Created a navbar.
- Redesign of the website. Many minor changes and improvements.
- Added user role identification.
- Added GitHub Actions to the repository for autorunning tests.



Blockers

- The sprint goals were too vague.
- Difficulties with other classes for some members.
- CodeClimate was able to be connected but has been a struggle to link with the testing

Project Management

Team Roles

Christopher Muniz

Navbar.

Product Owner.

Matthew Atanas

Displaying user roles on navbar.

Noam Gariani

CRUD for students, download csv, design, and other tasks.

Scrum Master

Patrick Cannell

Database design. Data for the student table.

Will Tatum

Search bar and filtering capability for student table.

Team Information

Story Points:

Matthew Atanas	1
Patrick Cannell	3
Noam Gariani	12
Christopher Muniz	2
Will Tatum	6



Development Methodology

Our development method is Agile. We have discussed as a team having a stand-up meeting every weekday at 5:45pm. Along with this, we have meetings scheduled with Professor Romero every Wednesday and Dr. Ritchey every Thursday at 5:30pm.

SCRUM Meetings:

1. Monday | 5:45 pm – 6:00 pm | Note: Through Discord.
2. Tuesday | 5:45 pm – 6:00 pm | Note: Through Discord.
3. Wednesday | 5:45 pm – 6:45 pm | Note: Professor Romero Meeting this day.
4. Thursday | 5:30 pm – 6:30 pm | Note: Professor Ritchey Meeting this day.
5. Friday | 5:45 pm – 6:45 pm | Note: Through Discord.

Additionally, we can create meetings as needed based on the workload. This could include added working hours for members. This is not limited to full group meetings and could be set by people within the group to work together. Also, we use discord to communicate between the team members to coordinate all tasks and work for the project.

By using Pivotal Tracker, we can have the backlog and stories with all the needed planning materials hosted on the site. This makes going through SCRUM Agile more seamless as it helps with planning and assigning work as well as creating automated graphs such as burn down charts.

We use a product backlog that includes all our tasks that need to be done. These should be assigned to all developers on the team. Every sprint there will be tasks from the product backlog and at the end of every sprint we will conduct backlog refinement. By doing this we can stay on top of the needs of our project.

Customer Meeting

Date: June 26, 2024

The meeting lasted around 1 hour and he went over the design of the database. When he did the user study he mentioned that he would like to have more attributes and changed attributes for the student table. He mentioned that in detail in the meeting and notes were taken. He also mentioned how he wanted the search bar to work as it was in the home page but not functional. Additionally, he wanted to be able to sort through the students to be able to quickly see a student that he would like to pull up. Lastly, he mentioned that he would like to see notes for each student.



Sprint Backlog

- As a program director, I need to be able to delete a student.
 - Assigned: Noam Gariani
 - Completed: yes
- As a program director, I need to update student information as needed.
 - Assigned: Noam Gariani
 - Completed: yes
- As a program director, I need to be able to read all the information about a specified student.
 - Assigned: Noam Gariani
 - Completed: yes
- As a program director, I need to create a new student.
 - Assigned: Noam Gariani
 - Completed: yes
- As a program director, I need to be able to search through student data in a spreadsheet-like view to manage and easily see student data.
 - Assigned: Will Tatum
 - Completed: yes
- As a program director, I need to have information about students stored.
 - Assigned: Patrick Cannell, Noam Gariani
 - Completed: yes
- As a program director, I need to be able to sort through student data in a spreadsheet-like view to manage and easily see student data.
 - Assigned: Will Tatum
 - Completed: yes
- As a program director, I need the pages to be functional and designed well.



-
- Assigned: Christopher Muniz, Noam Gariani
 - Completed: yes
 - As a program director, I need to be able to read all the information about a specified user.
 - Assigned: Matthew Atanas
 - Completed: yes, although it changed to “As an unknown user, I need to be able to see my current status for permissions”