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# CyberCRM

## Sprint 1 Retrospective

*June 18, 2024*

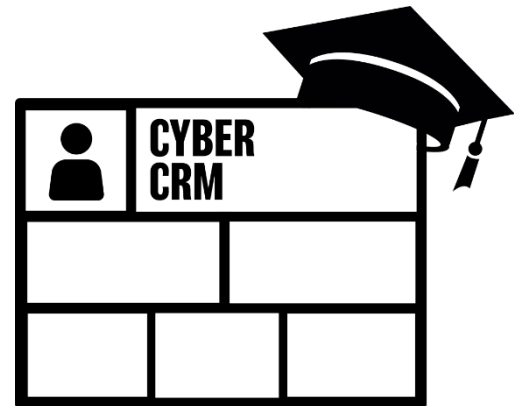
MATTHEW ATANAS

PATRICK CANNELL

NOAM GARIANI

CHRISTOPHER MUNIZ

WILL TATUM





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## **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>

### **Sprint Dates**

6/7 – 6/14

### **Sprint Goal**

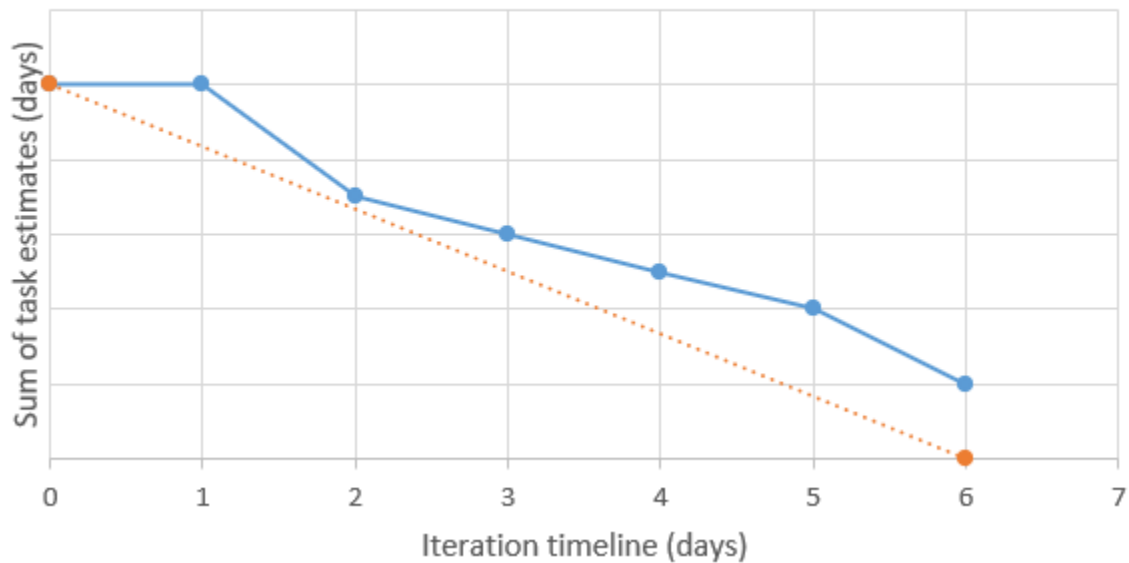
Complete a basic layout and set up of the application. This includes the Heroku hosting and OAuth authentication for the website with RBAC.

### **Burn Down Chart**

Note: This is self-generated not via pivotal.

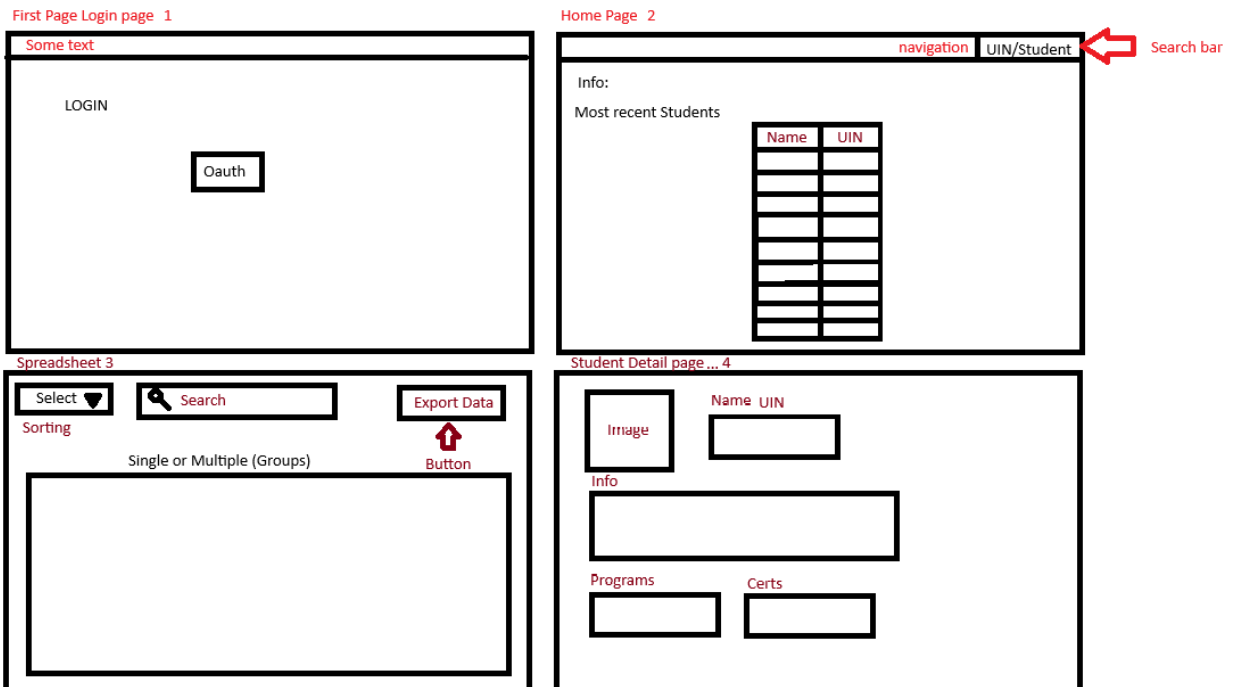


### Burndown chart for Sprint 1





## Design Diagrams (UI & ERD)



organizations		
id	PK integer	not null
student_id	FK integer	not null
organization_name	text	not null
start_date	text	
end_date	text	

jobs		
id	PK integer	not null
student_id	FK integer	not null
location	text	not null
job_name	text	
start_date	date	
end_date	date	
internship	text	

students		
id	PK integer	not null
UIN	text	not null
role	text	not null
name	text	not null
status	text	
gpa	text	
ethnicity	text	
gender	text	
nationality	text	
sexual_orientation	text	
date_of_birth	date	
classification	text	
expected_graduation	date	
internships	text	
corps	text	
security_clearance	text	

associations		
id	PK integer	not null
student_id	FK integer	not null
sfs	text	not null
viceroy	text	
csa	text	
smart_scholarship	text	
other_scholarship	text	
dod_job	text	
dod_clearance	text	

certifications		
id	PK integer	not null
student_id	FK integer	not null
manufacturer	text	not null
model	text	
version	text	
completion_date	date	



## Code and Test Evaluation

### *Rubocop*

There were six offenses for Rubocop. Four of them were on the user spec test. Two of them were on the sessions controller since we had to manually assign at least one person to each role and access which extended the length and ABC size.

### *Coverage*

98.5% 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 people to authenticate to their correct roles.

As a program director, I need to have a list of students sorted by name.

As a program director I need access to personally identifiable information.

#### *Professor/Grader*

As a grader for this project, I need this to be a website hosted on Heroku.

#### *User*

As a user, I want to see some basic page layouts.



## **Work Done**

### **Sprint Achievements**

- OAUTH and RBAC (Role Based Access Control) have been completed.
  - Includes three roles: Superuser, program admin, and student work. Different emails are assigned to different roles.
- Hosting the website and database on Heroku has been completed.
  - Used Heroku Postgres for the database.
- Basic layout design of the website.

### **Blockers**

- Not everyone was able to complete the given tasks by the end of the Sprint which resulted in the sprint goal being not fully completed. This entailed the display of the database contents on the website.
- CodeClimate was not able to be connected to. A response was received from support and now awaiting a response from the organization leader of tamu-edu-students for CodeClimate

## **Project Management**

### **Team Roles**

*Christopher Muniz*

Basic page layouts.

*Matthew Atanas*

Displaying database data on the pages.

Scrum Master



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*Noam Gariani*

Heroku and OAUTH (RBAC).

Product Owner.

*Patrick Cannell*

Database design.

*Will Tatum*

OAUTH and Heroku.

## Team Information

The percentage is made up of documents participation, GitHub contribution, discord communications, and SCRUM meeting attendance and the points are based on pivotal tracker.

Percent of fair share effort

Matthew Atanas	16%, 0 points
Patrick Cannell	17%, 2 points
Noam Gariani	25%, 3 points
Christopher Muniz	17%, 2 points
Will Tatum	25%, 3 points

## 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 on this day.
4. Thursday | 5:45 pm – 6:45 pm | Note: Professor Ritchey Meeting on 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.

## **Sprint Backlog**

- As a program director, I need people to authenticate to their correct roles.
  - Assigned: Will Tatum
  - Completion: Done
- As a grader for this project, I need this to be a website hosted on Heroku.
  - Assigned: Noam Gariani
  - Completion: Done
- As a user, I want to see some basic page layouts.
  - Assigned: Christopher Muniz
  - Completion: Done
- As a program director I need access to personally identifiable information.
  - Assigned: Patrick Cannell
  - Completion: Done
  - A local postgres instance was used to host a schema containing the schema of the database. Tables, foreign key relationships, and sample data were manually created using SQL statements. After meeting with the professor, the team learned that the ActiveRecord framework is required as the RDMS. Ruby scripts that create the table, migrate the schema, and



populate sample data are available on Google Drive. The scripts were not implemented on the Heroku instance.

- As a program director, I need to have a list of students sorted by name.
  - Assigned: Matthew Atanas
  - Completion: Removed due to being unable to complete it on time due to complexities with Ruby setup. Will be put in the next sprint.