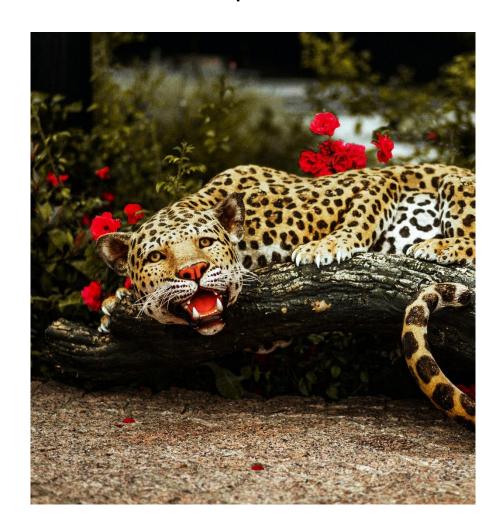
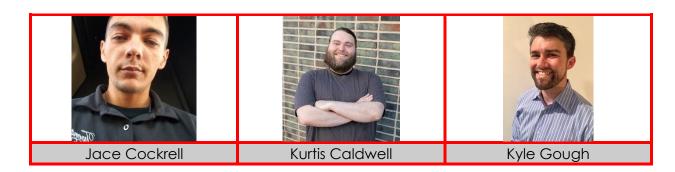
# Red Jaguars Hogwarts Class Scheduling Proposal



## About Us

RedJaguars Inc. is a new startup tackling the web development issues of today's industry. We consist of three team members: Jace Cockrell, Kurtis Caldwell, and Kyle Gough. We are full stack developers with a variety of skillsets including:

.NET Core MVC Framework	Database Management		
Full Stack Web Application Design	Unit Testing		
C# Fundamentals	Software Development Cycle		
Javascript (React)	Agile – Scrum Methodology		



#### Overview

Hogwarts is an educational complex, offering training for young witches and wizards in the ways of magic to better prepare them to contribute to the wizarding society. Hogwarts administration came to RedJaguars Inc to develop an app for their scheduling staff to help with course organization and enrollment.

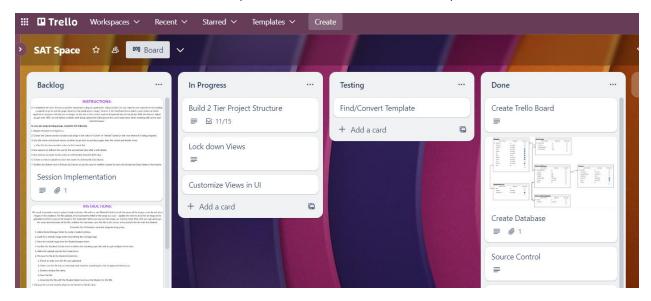
## Requirements

- Tracked progress via Trello board with assigned tasks and cards
- Project history tracking and collaboration via GitHub
- Project documentation via screenshots
- Build relational database for data structure/storage and populate data
- Metadata of classes for data annotation
- Utilize multiple roles for Administrators and Schedulers for authentication
- CRUD functionality across classes, enrollments, students, and statuses for authorized users per Identity Matrix

## **Documentation**

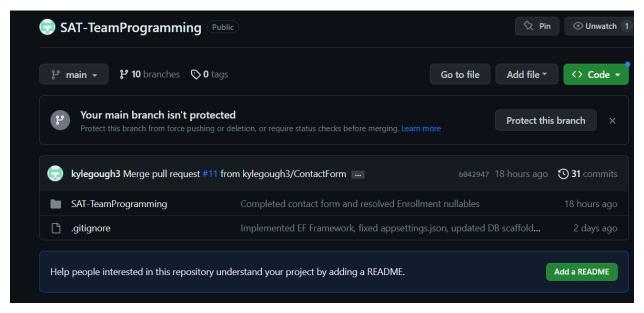
#### Trello Board

Trello Boards were utilized to help track allocation of work, requirements, deadlines etc.

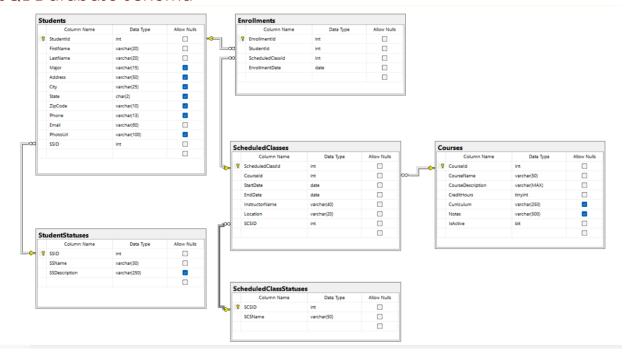


## GitHub - Tracking/Collaboration

GitHub was used to work collaboratively on the codebase, implementing branching techniques in line with current industry standards.



## SQL Database Schema



# Authorization – Identity Matrix

<b>HomeController</b>	Index	Contact
Anonymous	x	x
Scheduling	x	x
Admin	x	x

Courses	Active	Retired	Detail	Create	Edit	Delete
Anonymous						
Scheduling						
Admin	x	x	x	x	x	х

Enrollments	Index	Details	Create	Edit	Delete
Anonymous					
Scheduling	х	х	х	х	x
Admin	х	x	x	х	x

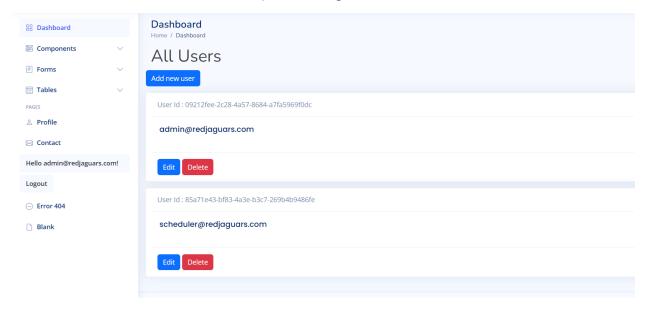
Scheduled Classes	Index	Details	Create	Edit	Delete
Anonymous					
Scheduling	х	х	х	х	
Admin	x	x	x	x	x

Students	Index	Details	Create	Edit	Delete
Anonymous					
Scheduling	x	x			
Admin	x	x	x	x	x

Student Statuses	Index	Details	Create	Edit	Delete
Anonymous					
Scheduling					
Admin	x	x	х	х	x

## Identity Management - Code Example

Below shows the admin functionality to manage the users and roles within the site



## Authorization - Navigation Code Example

Below is a snip of how the navigation links are limited only to authorized users

#### Metadata – Data Annotation

These data annotations help protect proper data interaction with the database during create/edit functions

### Partial Class – Custom Properties

These custom properties allow for additional data to be rendered during the CRUD functions.

## Contact Page

Full functionality contact page with Confirmation page upon send

