[UX3 - Continuous Improvement](https://connect.tafeqld.edu.au/d2l/le/content/264281/viewContent/15532637/View" \o "'UX3 - Continuous Improvment' - Checklist)ask: You have completed 0 of 1 checklist items

PART A

1. Associate a README.TXT with the app outlining technical implementation matters

See README.md

1. Write HTML help document and associated icon covering common user interface elements in the UI

Web app - <https://nanguo666.com/swimschool/>

Admin panel - <https://swimschool-admin-panel.vercel.app/>

Example login details:

Username: nan

Password: 1989Gn0627

**Register page (register form)**

* User Name: must be characters over 3
* Email: must be email format and contain a number and a character
* Password: must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters.
* Password Again: must be as same as the first password
* Show password button
* Submit button

**Login page**

* User Name: must be characters over 3
* Password: must contain at least one number and one uppercase and lowercase letter, and at least 8 or more characters.
* “Remember me” checkbox to save username and userid in local storage.
* Submit button

**Home page:** hard code written in html

**Programs Introduction page:** fetch all programs info in cards.

**Search and Enroll page**

* 2 searching items: search classes by program name, search classes by class time
* then fetch the related classes in cards.
* “Enroll” button linking with the enrollment form in each card.

**Enrollment Form**

* All required items (some info like program name and class time is already in the form)
* “Read policy” button to open a modal
* “agree to policies” checkbox
* enroll button

**My class page:**

* a card to show enrolled class information
* if the user has not enrolled any class, the page will show alert “you have not enrolled any class”.

**Account Setting page:** switch backgrounds

1. Write a Roadmap going forward of the developments to the interface, include in development repository where code is stored

See readme file

web app - https://github.com/guonan627/swimschool

Admin panel - https://github.com/guonan627/swimschool-admin-panel

1. Prepare (build) project for production environment
2. Why is it important to implement the above (1-4)

The above documens facilitate to handover the project to colleague, coworker, client and tester, and make sure they are clear about developer’s design and web’ s functions.

1. What other types of documentation may be necessary for this project?

API document

Readme file

PART B

1. What portions of the development went particularly well？

The prototypes of web app that was developed by Materialized is relatively easy part without connecting with database.

1. What was the most difficult to implement

For project 2 web app,

* At starting stage, how to build up the code structure is the most difficult, because you have to make sure the app.js, api.php, db.php and database can connect in in series.
* Authentication is also tough part. A lot of debugging works for it.
* Rate limit part is related to arithmetic so it is not easy.

For project 3, I think how to router between different pages is hard.

1. If you had the chance to do this again, what would you do differently

I will improve the security for authentication for web app and admin panel by using OAuth and Jason Wen Token.

1. What parts of the implementation incomplete at this stage of delivery.

It is completed now but I think the following parts need to be further improved:

* Now one user can only enroll one class. The new change should allow one user can enroll multiple classes for different students.
* The “view my class” page should allow users to upload and download the class pictures.

1. Write and reflect on "Quality Assurance" how are you practicing this?

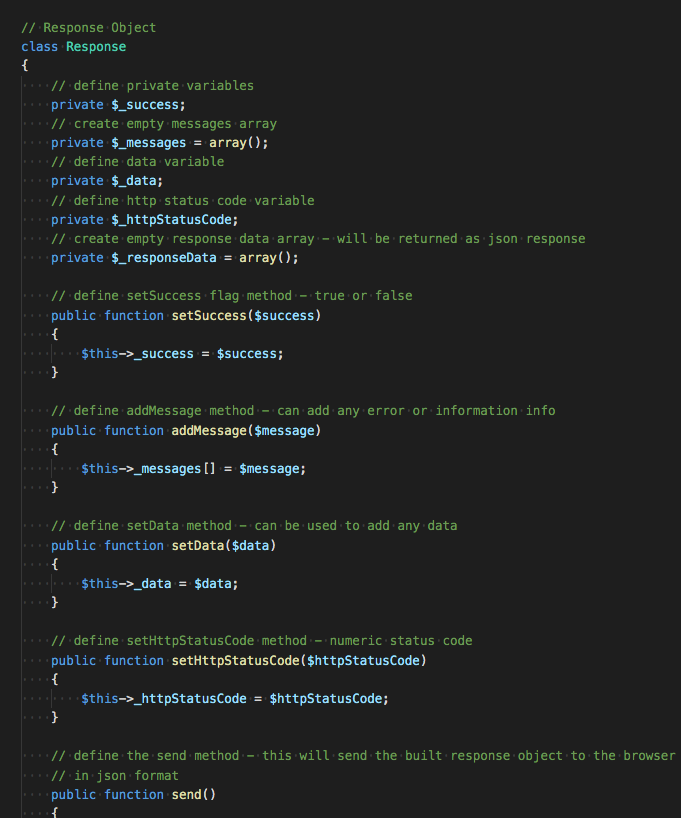
* I made an implementation plan to list all detailed works before development.
* Review the completion situation every week.
* I keep discuss with fellow students and teachers to find out their feedbacks

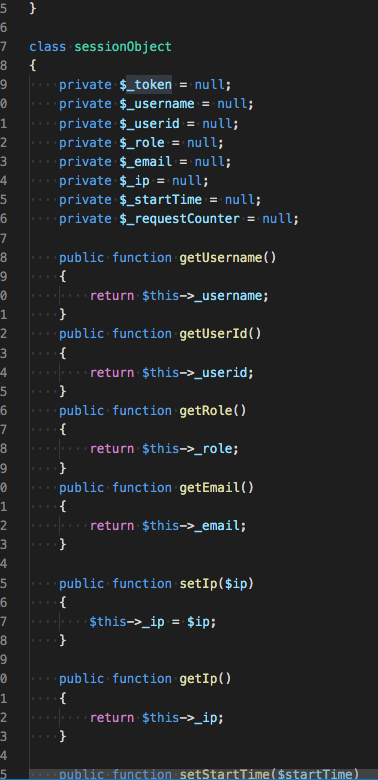
1. How much of the prototype UX1 remains in the final project?

All the contents in UX1 remain in PROJ2 except for the picture download function in “view my class” page and account info update function in “account setting” page

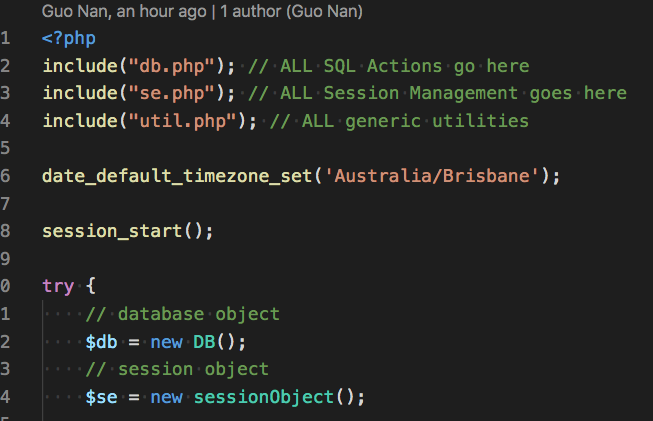
1. Where has your project Object Oriented programming implemented？

Where class





Where new



where extend: I don’t use extend in this project

PART C

1. Student to present three measurable criteria from project plan (PROJ1)

3 key criteria are:

* register and login
* search classes by class time and by program name.
* enroll a class

1. Present Web App (solution) to class
2. Seek feedback from your peers on areas of success/improvement
3. Rectify any failings as a result of this activity

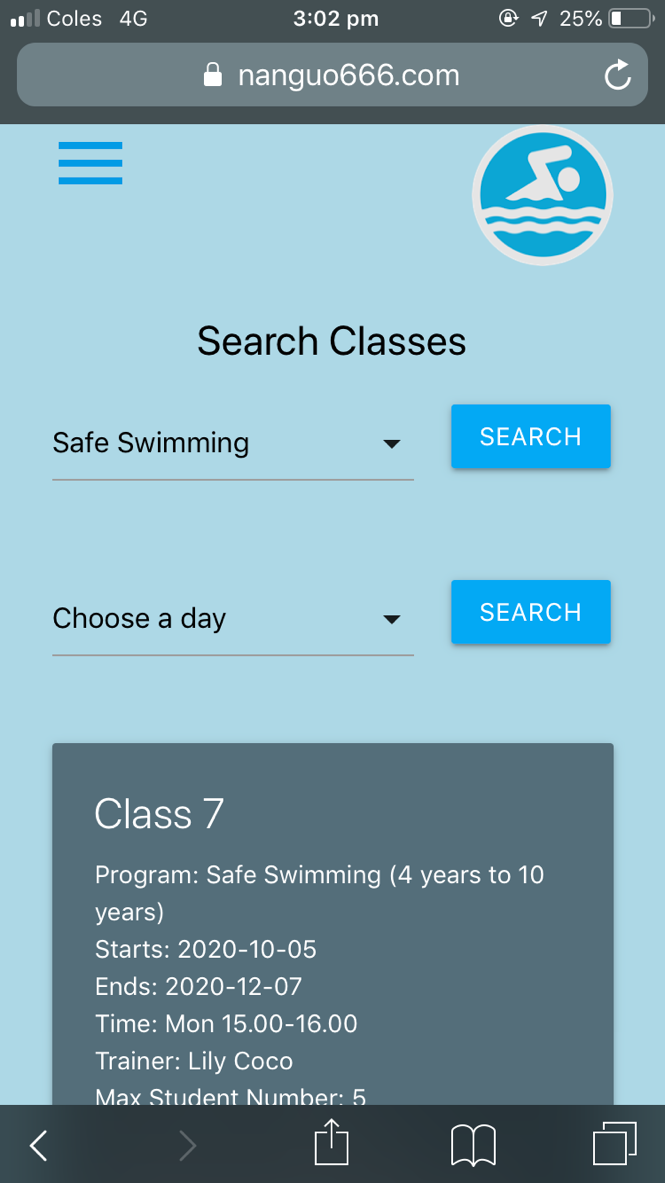
According to the teacher’s feedbacks, when the users click the sidenav to jump to corresponding pages, the sidenav should retract after jumping (fixed).

PROJ4 – Security Audit

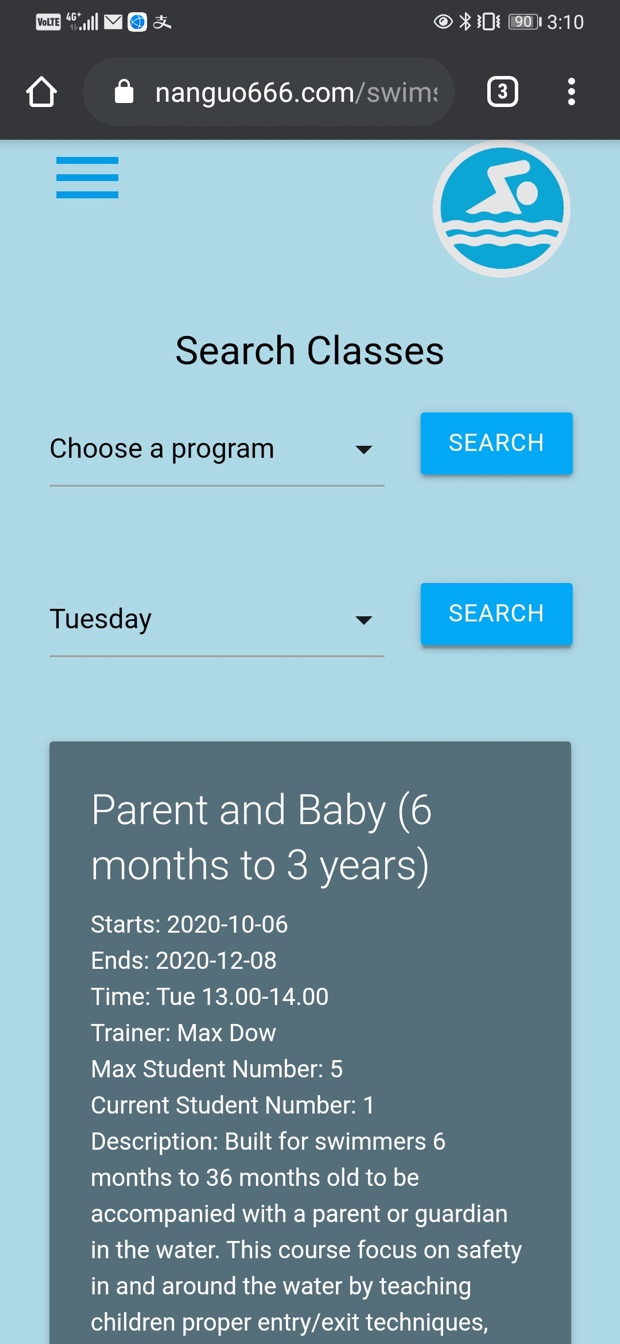
PART A

1. Check final application in a Desktop version of Chrome & Firefox + IOS and Android phones

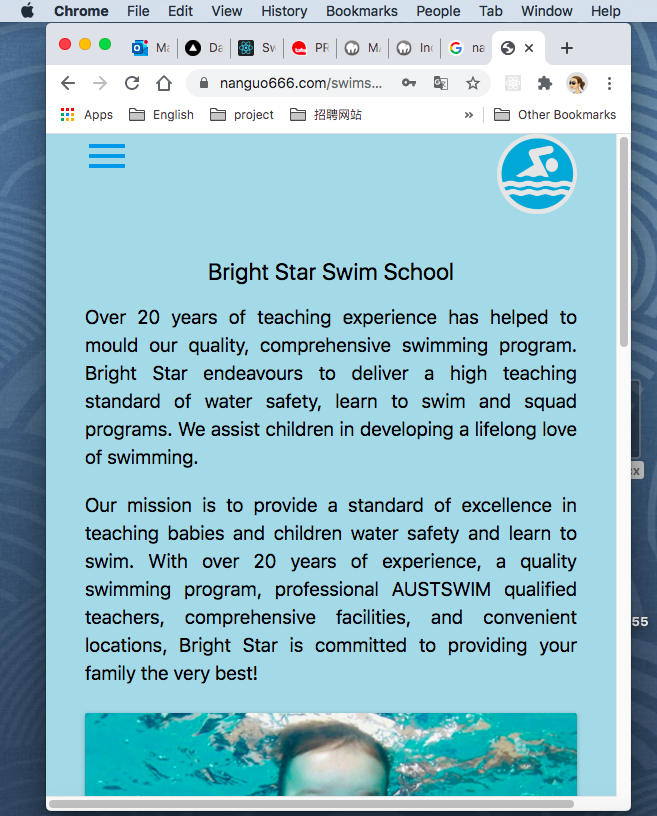
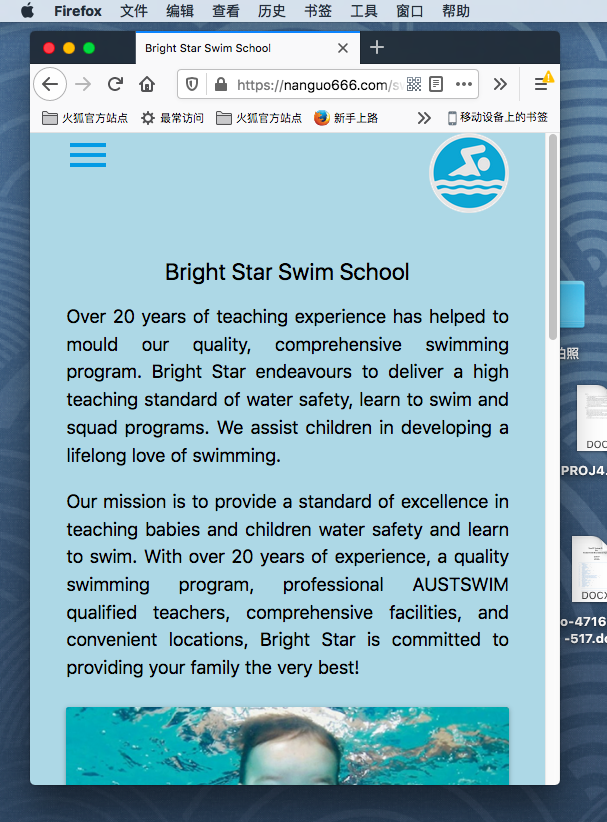
IOS phone:

Android phone:

Chrome: Firefox:

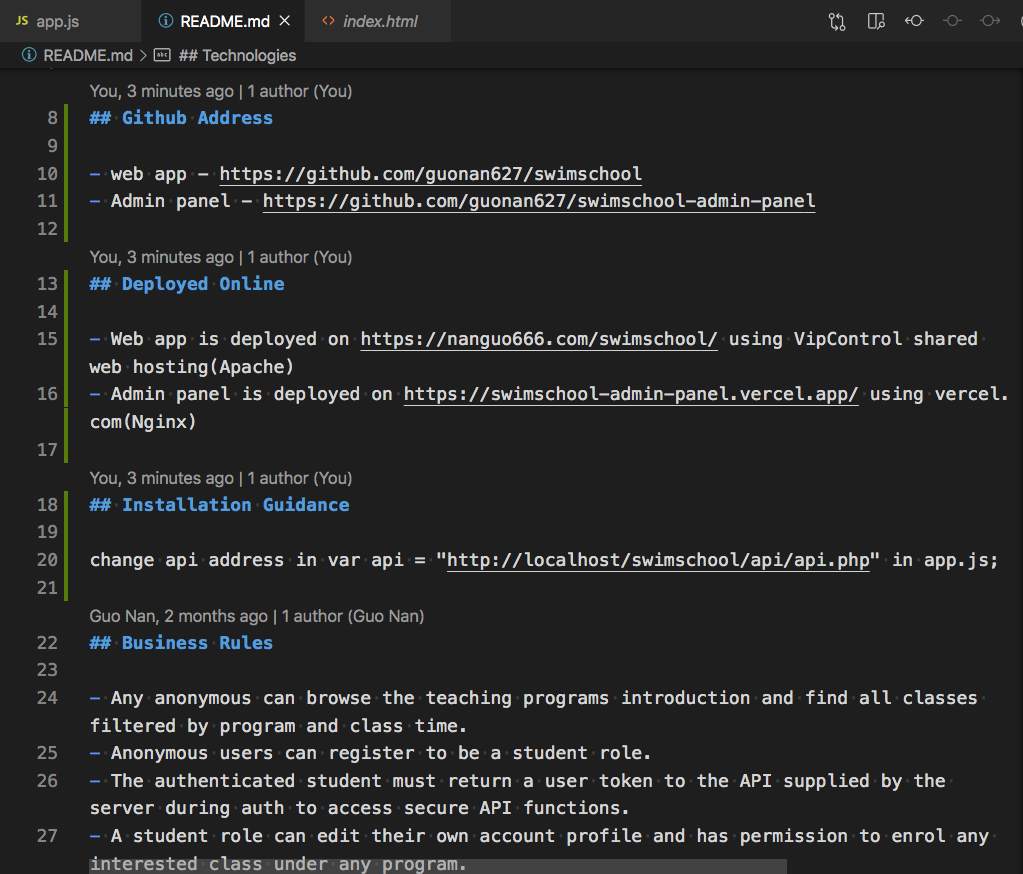
 

1. Bring UX2, PROJ2 & PROJ3 together in one .zip, write a README describing installation for operations staff

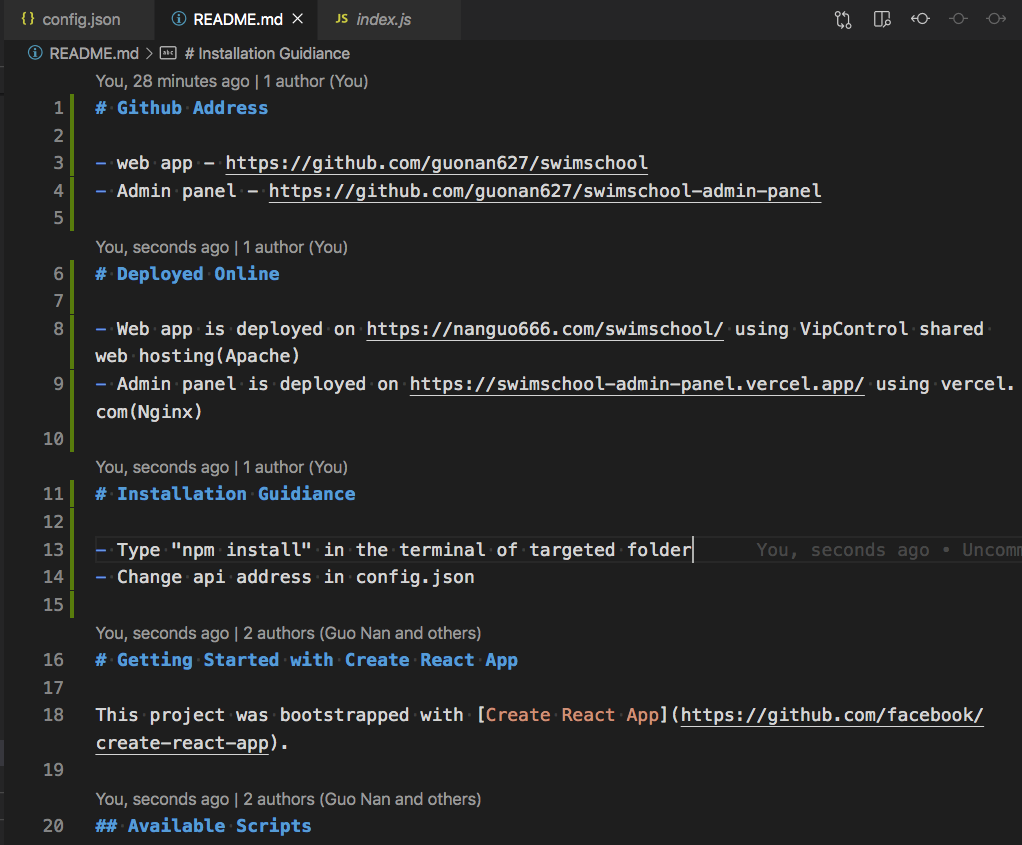
See PROJ2,UX2,PROJ3.zip

See readme files of web app and admin panel

Web app installation guidance:

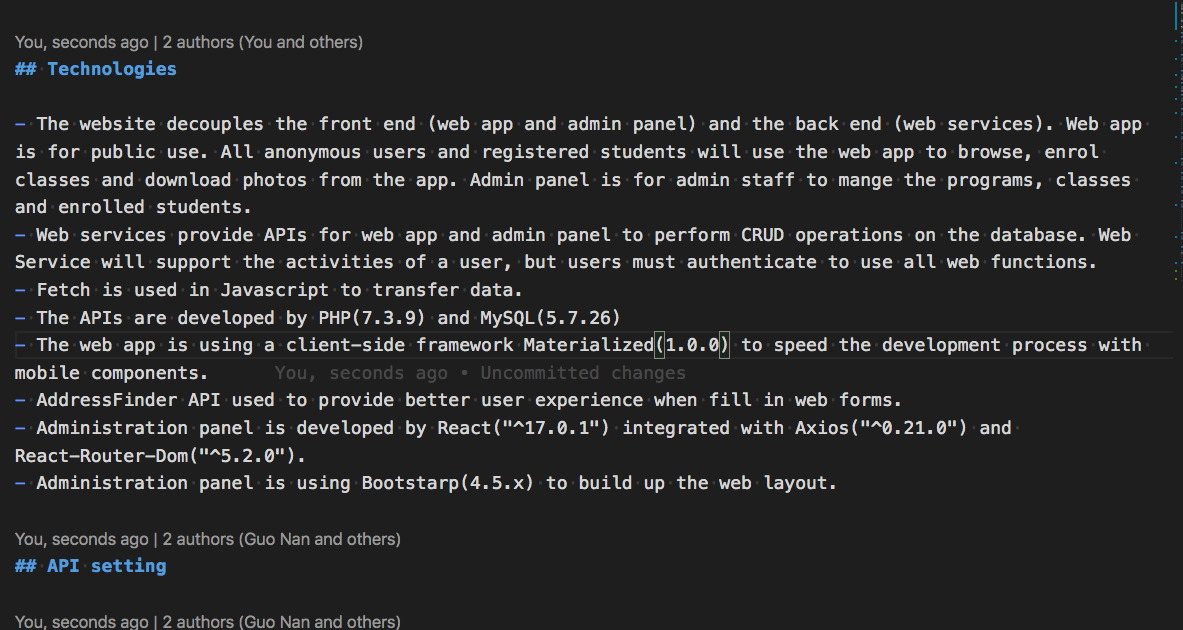


Admin panel installation guidance:

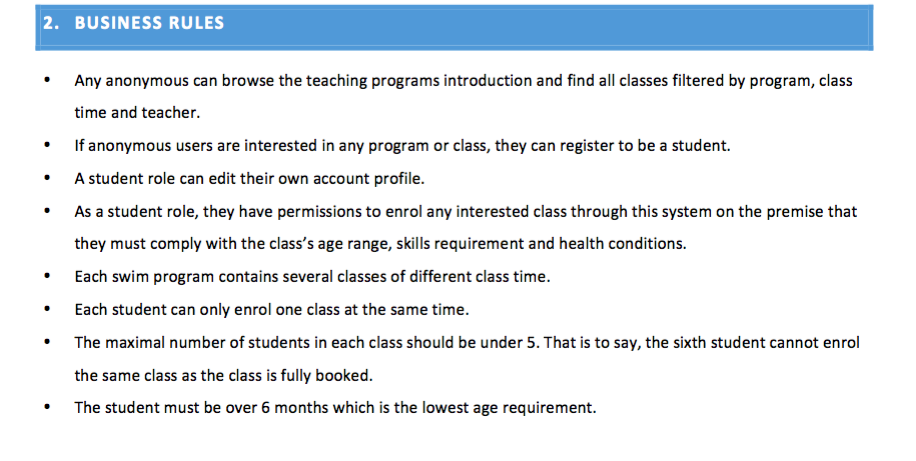


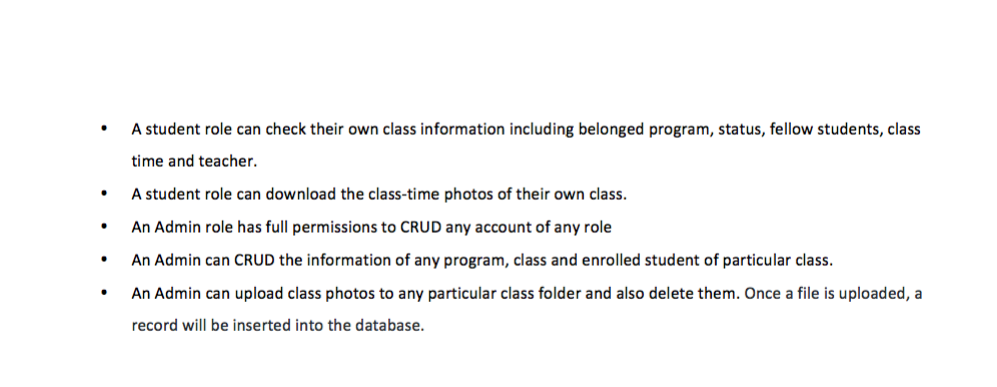
1. Include in the README all the technologies used in the app, places where they were used and versions you recommend

See technologies part in the readme file of web app



1. Confirm functionality in relation to plan PROJ1 highlight areas that changed, or were not implemented.

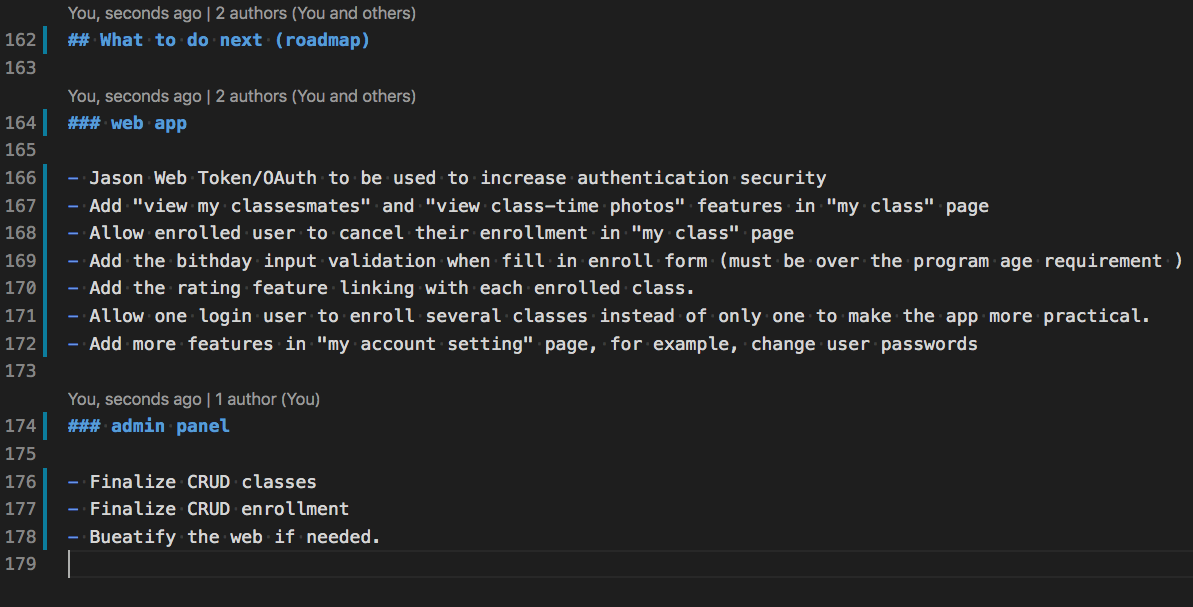




This is “business rules” in PROJ1

* Any anonymous can browse the teaching programs introduction and find all classes filtered by program, class time and teacher. ---completed
* If anonymous users are interested in any program or class, they can register to be a student. ---completed
* Web user can login. ---completed
* A student role can edit their own account profile. ---not implemented
* As a student role, they have permissions to enroll any interested class through this system on the premise that they must comply with the class’s age range and health conditions. ---function completed but did not validate their age range and health conditions
* Each swim program contains several classes of different class time. ---completed
* Each student can only enrol one class at the same time. ---completed
* The maximal number of students in each class should be under 5. That is to say, the sixth student cannot enroll the same class as the class is fully booked. ---completed
* The student must be over 6 months which is the lowest age requirement. --- did not validate their age range
* A student role can check their own class information including belonged program, status, fellow students, class time and teacher. ---completed
* A student role can download the class-time photos of their own class. ---did not implement
* An Admin role has full permissions to CRUD any account of any role---in admin panel, did not implement
* An Admin can CRUD the information of any program, class and enrolled student of particular class. ---in admin panel, CRUD enrollment is not implemented
* An Admin can upload class photos to any particular class folder and also delete them. Once a file is uploaded, a record will be inserted into the database. ---in admin panel, did not implement

1. Write a roadmap section that confirms areas of development going forward. What bugs do you want to fix or functionality to extend.



PART B

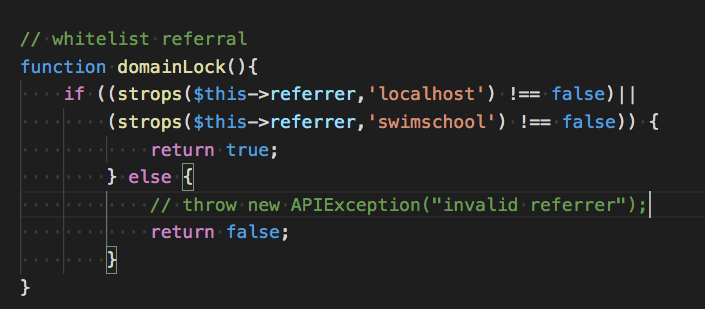
1. Secure app by resetting/removing admin passwords

new admin

Username: nan

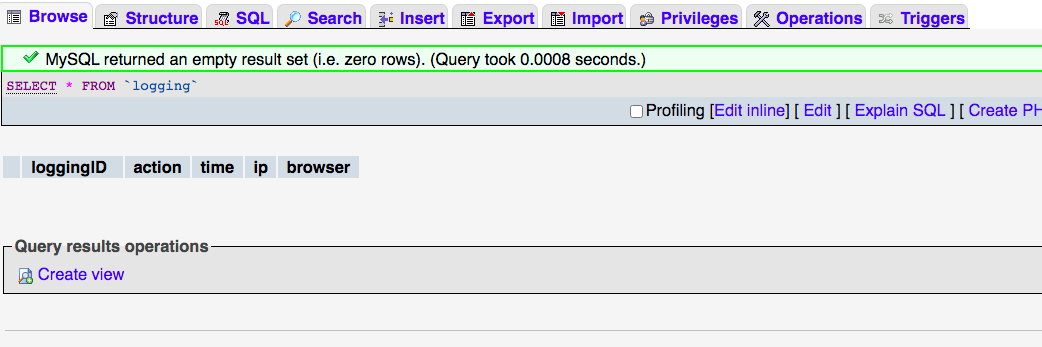
Password: 1989Gn0627

1. Remove localhost from referrer security, add hosting domain referrer



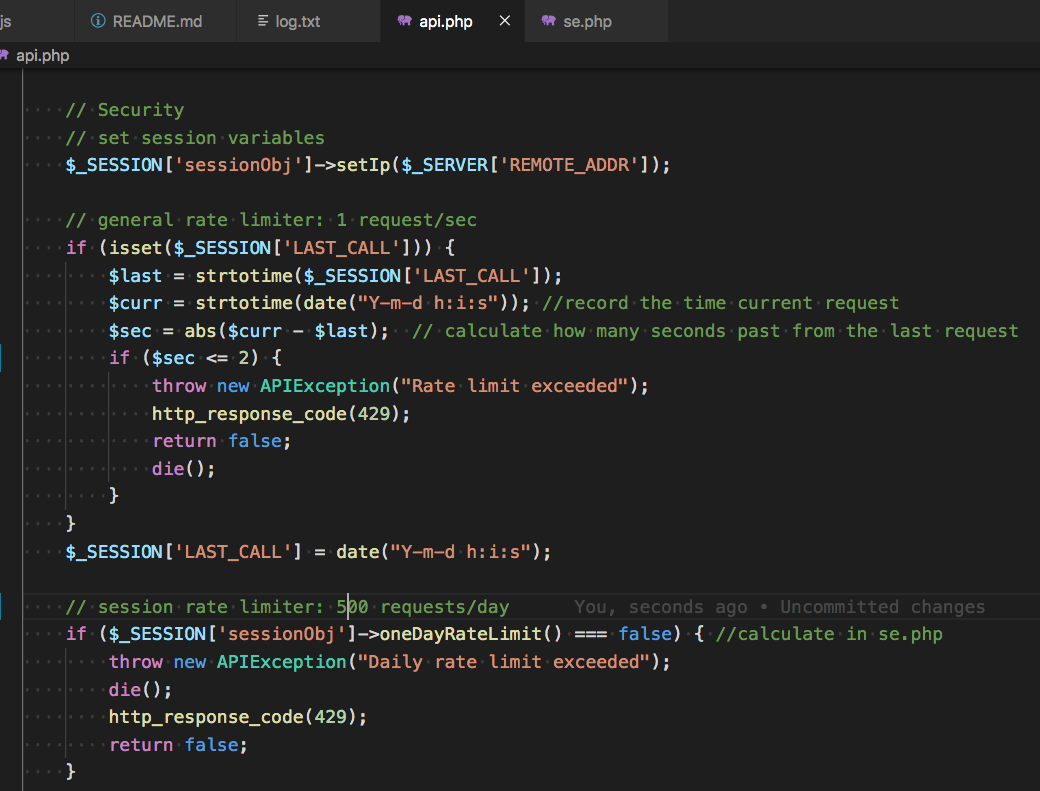
1. Remove log data & test data from app

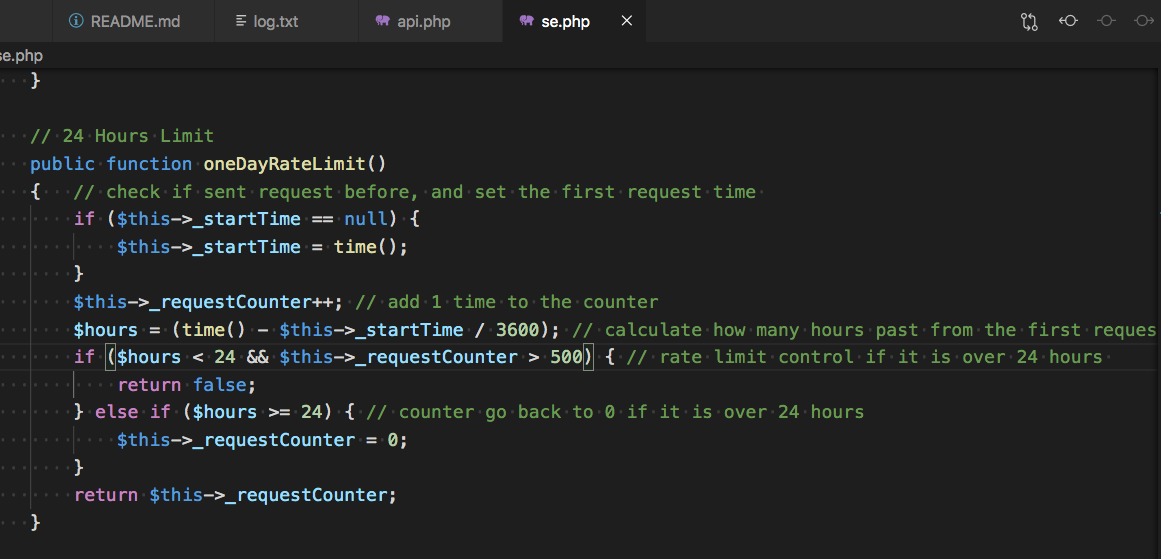
Empty all logging records in database



1. Reset rate limits to once every 2 seconds & a maximum of 500 requests

Change to new rate limits





1. Test with out of bounds data like negative numbers, Inject <script>alert(‘Security Alert’);</script> Update or delete on IDs that don’t exist

For negative numbers, this can be included in the form validation in the future.

For IDs that don’t exist, in my admin panel project only existing ID can be fetched by axios and rendered on the screen by react and react-router-dom; and it is same in web app that only existing ID can be fetched on the screen.

1. Screenshot results of 10 above and suggest a remedy