



Songnyeong Nam

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Portfolio : <https://imthesong.site>

Profile

Enthusiastic and responsible problem solver, ready to deploy my new career. Have potential to develop and specialize deeper knowledge to be a web developer and a team player with excellent communication skills.

Projects

Pickle

📅 2020.07.27 ~ 2020.08.28

Integrated School Management System supporting Streaming Service.

- Tech Stack:
 - Java, JavaScript, React.js, MariaDB, JPA, Querydsl, Node.js, Axios
 - NGINX, Redis, Amazon EC2, Amazon S3, Amazon CloudFront
- Cooperation Tool:
 - Slack, Github Desktop, Trello
- Played key role in developing instructor page

[Please see Attachment_1 for more details](#)

IYoga

📅 2020.07.27 ~ 2020.08.28

Yoga pose search page for yogis.

- Tech Stack:
 - Java, JavaScript, Vue.js, JPA, Querydsl, Axios
- Member CRUD Available
- Used RESTful API

Education

Korea Cyber University

2020.09 ~ current

- Major in Machine Learning

Korea Maritime University

2012.03.05 ~ 2016.01.29

- Bachelor's Degree in Business Administration

BootCamp

Bitcamp

2020.03.31 ~ 2020.09.18

Web Developer program emphasis on Java, SQL, React technical stack.

Learn Java and Javascript coding

- Learnt full-stack coding from basic to intermediate level
- Built a full-stack web page, "Pickle"
- Built a full-stack web page, "IYoga"

Online Machine Learning Course

2020.07.27 ~ 2020.08.28

Integrated School Management System

- Basic foundation of machine Learning Algorithm
- Collaborative Filtering, Linear Regression, Collective Regression

Work Experience

Document Coordinator
Nawah Energy Corp. UAE, Abu Dhabi 2019.02 ~ 2020.02

- Perform Function Administrative work. Register documents in SAP system
- Compile meeting materials, record and distribute Minutes of Meeting by weekly basis.
- Assist coping strategies, UAA for fuel load qualification in cooperation with other departments
- Undertake General office duties

Korea Hydro & Nuclear Power plant 2016.08 ~ 2018.08

- Engaged in administrative work for plant top management level
- Organized conferences and meetings within the KHNP organization as well as with external stakeholders including ENEC, Nawah and KEPCO
- Performed research, translation and prepared Weekly UAE Trend Newsletter circulated to both HQ and staff working in BNPP
- Managed the receptionist area, which includes responding to telephone and in-person requests for information
- Performed various office tasks as needed and assigned

Language

Korean	Native
English	Fluent

Project Description

Integrated school Management System supporting Streaming Service

Pickle

📅 2020.07.27 ~ 2020.08.28

Team Name : Bitbox (contributor : 5)

Introduction

The unexpected COVID-19 pandemic has caused serious social chaos. The government advised people not to gather, and delayed opening schools until mid April, since their level of concentration was relatively high. For this reason, students weren't able to get proper education as before and the instructors also had difficulty managing students in many ways. Therefore we've decided to run this project for better education service to students and efficient student management for teachers.

Technical Stack

BackEnd

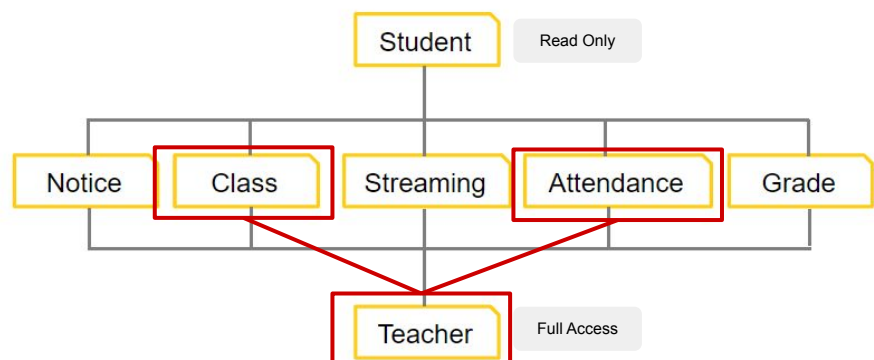
- Used Spring Boot Framework
- Used JPA and QueryDSL to implement custom methods
- Created dummy data, since student grades and attendance are personal information. However, when generating data, we followed regular distribution table in order to generate data similar to the real data.

FrontEnd

- Used React.js and Single Page Application for better user experience
- Used Functional Component(Hook) and applied duck type pattern for easier maintenance.
- Used React-Router-Dom Library for routing pages
- Used Reducer when managing props globally.
- Used Axios when sending request to server

UI Architecture

- Used Balsamiq for overall composition and idea sketch



: In Charge

Class

1. Main

The first page when you click the class tab. Layouts are constructed to show timetable and lesson goal. On the right bottom of the page, there's timer and create button which can trigger streaming service

- Timetable : Used JPA QueryDSL to extract classes in charge only, for user's convenience.
- Lesson Goal : Used JPA QueryDSL to read lessons from database
- Timer : Shows Time left.
 - a. Select a class from the timetable When clicked, client sends information of the class to server through axios.
 - b. Server checks current time and sends client a millisecond format time by using LocalDateTime and instance.
 - c. With the millisecond format time, client calculates the distance from current time and convert into DD-HH-MM-SS format.

2. Timetable Management

When entered, the current timetable is located on the left side of the page and the editable timetable on the right.

On the Editable Timetable, current timetable is set as default. When the cube is empty create button will be shown at the bottom, on the contrary, delete button will be shown.

- Create : Creates subject in charge on selected cube and updates it to the database by using QueryDSL.
- Delete : Deletes selected class.
- Used react sortable to change cubes by drag and drop.

3. Lesson Goal Management

- Created lesson numbers with vacant title and detail on the database, since academic schedule is set before the semester. Therefore implemented CRUD using QueryDSL update command.
- Used react sortable to enable changing order with drag and drop. When save button is clicked, new lesson_no is applied.
(The list is saved into database in id, the primary key, order.)
- When reading the list, it is sorted by lesson_no order for consistency.

Attendance

1. Main

consists of calendar, donut chart(daily Attendance status) and linear chart(Weekly Attendance status) for the users to check data at a glance. Default data is the class in charge.

- Classification : Can select grade, class
- Search : With the selected grade, class and date from calendar, server sends corresponding data.
- Calendar : Used SimpleDatePicker. Indicates today's date for default
- Daily Attendance : Used QueryDSL to calculate Attendance, Absent and Tardy status. Used chart.js to render a donut chart for data visualization.
- Weekly Attendance : Used LocalDateTime to calculate the day. When accessed on weekend, monday to friday data is returned.

Attendance

2. Attendance Detail

A page that shows all students in the class in one table. Contains monthly Absent/Tardy status monthly.

Data of class in charge is set as default, however user can also browse other information