## **ENSE 400 GroupProject #3**

Team Name: VSB\_Plus

Team Members: Xia Hua, Xinyu Liu, Jingkang Yang, Priscilla Chua

Due: Nov 16, 2020

## **Brief project blurb**

A change for the better user-friendly design of the Visual Schedule Builder that will help to organize and plan out the time table wisely. As to make the website an interactive course schedule builder, the advising system of the courses to take, and the course detail visualization for the students to build up the desired course schedule with better time planning.

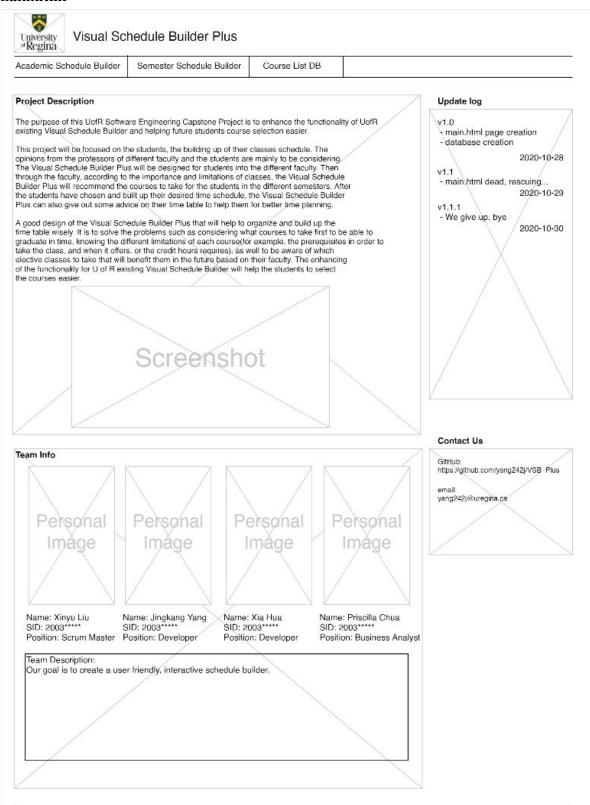
# "Show me us what you got"

We now had used the software tools to sketch out our design for the Visual Schedule Builder Plus website interface and are now doing some coding work. As well, to decide/focus on some points that how will the things be done for this project:

- The programming language will be written in html, css, JavaScript, PHP and JSON with the machine learning
- The Course Page will outline the labs information of the class; as well, it can show the deadline information for the assignment and exam of the course
- The website will do the auto fetch JSON file from University of Regina as to get/update the courses information from URcourse
- The Semester Page will only be working for the current semester and the next semester; the current semester is highlighted when the student is editing it
- As for the server of the website, we still have not decided which to use yet; but probably will go with Amazon Web Services(AWS) EC2 since we had some experiences in AWS

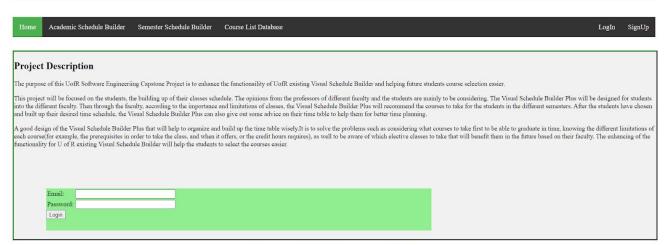
# Project demo (from lofi, to hifi, to coded MVP(s))

#### main.html



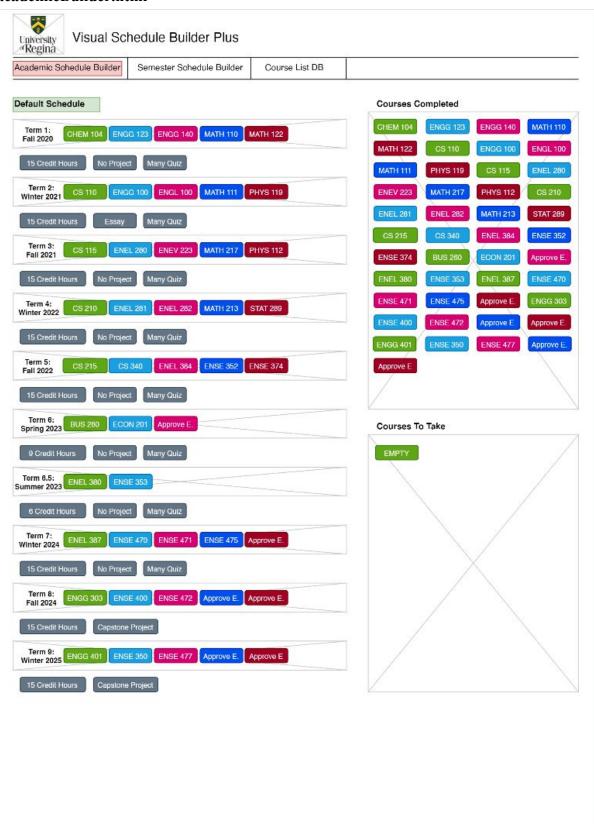


## **Visual Schedule Builder Plus**



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#### academicBuilder.html





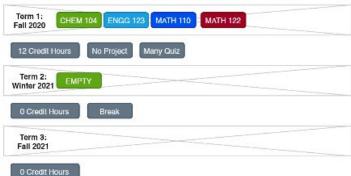
#### Visual Schedule Builder Plus

Academic Schedule Builder

Semester Schedule Builder

Course List DB

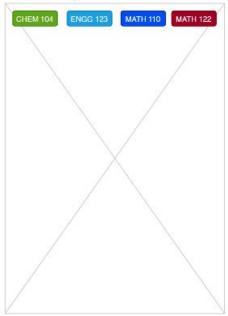




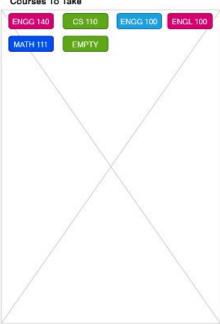
# Notes: (NOT part of design)

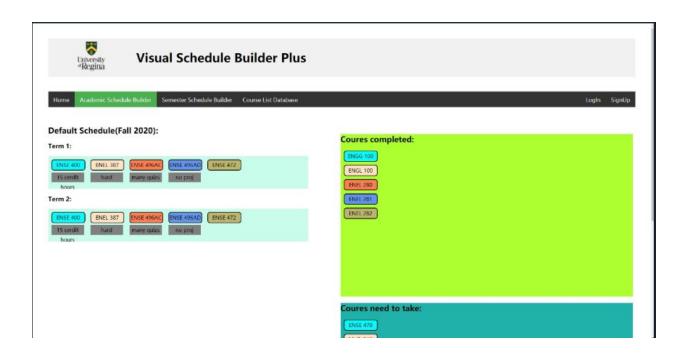
- 1) Academic Schedule Builder is only a simulator, which mean, anyone can play with it even not a currently registered student.
- If this person decide to take a break at certain semester, drag EMPTY to that semester to represent the break. Next term (3) will show up. EMPTY course came with the Break label.
- Each course has several labels, the grey one, which represent this course's identity.
- 4) New labels and new courses can be added in the future into database through back end.
- 5) Courses To Take will only show up the courses can be take based on Courses Completed.
- 6) Approved Elective includes Technical Elective, Open elective, Social science elective, and Natural Science elective
- 7) Elective courses can only be decide, choose, in Semester Schedule Builder. Because elective courses are vary depend on
- Semester Schedule Builder can only simulate current semester and next semester. Because SSB will display more details of selected courses which are only be posted before the new semester.
- 9) The UofR log is designed as the home button link to page-1

#### **Courses Completed**

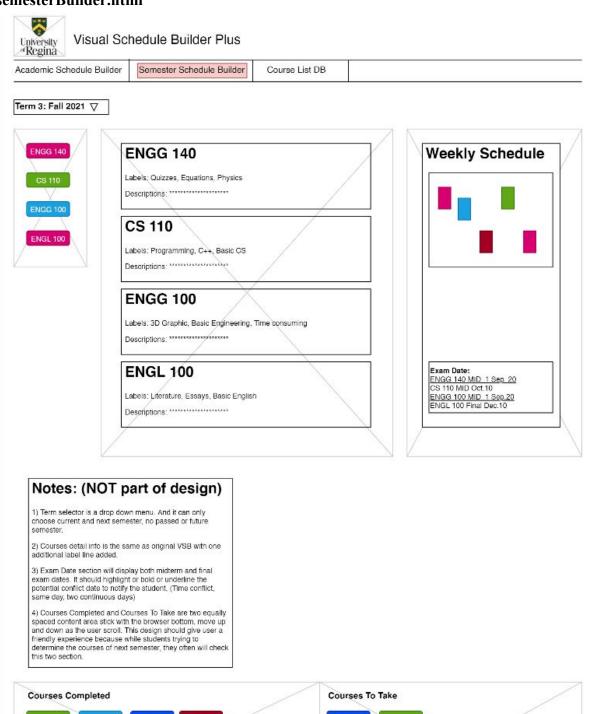


#### Courses To Take

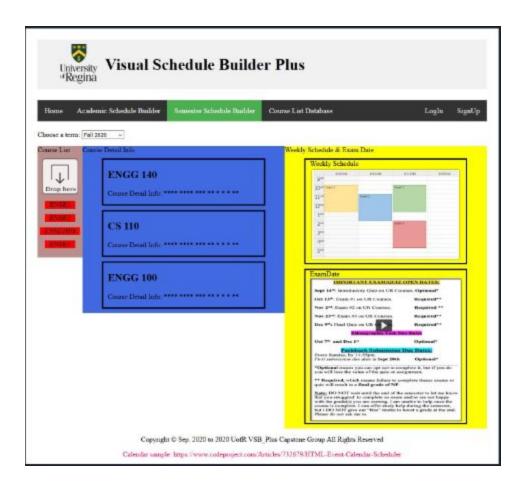




#### semesterBuilder.html



CHEM 104 ENGC 123 MATH 110 MATH 122 MATH 111 EMPTY



ourses Completed:		-	Courses To Take		
	Calendar sample: https://	www.codeproject.com/A	rtic \$/732679/HTML-Even	t-Calendar-Scheduler	

#### courseDB.html



#### Visual Schedule Builder Plus

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Filter  $\nabla$ CHEM 104 ENGG 100 ENGL 100 MATH 111 PHYS 119 ENGG 140 MATH 110 MATH 122 CS 110 ENEV 223 MATH 217 PHYS 112 CS 210 ENEL 282 MATH 213 STAT 289 ENEL 384 ENSE 352 ENSE 374 BUS 260 ENEL 380 ENSE 353 Approve E. ENSE 471 ENSE 475 Approve E. ENGG 303 ENSE 472 ENGG 401 ENSE 350 ENSE 477 Approve E. Approve E

# Notes: (NOT part of design)

- Filter button is a drop down menu with multiple filter functionality. Filters includes, Faculty, Elective region, difficulty level, hot level, lecture type (online, field, classroom, with lab) etc.
- 2) Difficulty level will be preliminary determined by average score in the passed semester, eg. average > 80 easy, 80 > average > 60 normal, average < 60 hard
- Hot level will be preliminary determined by average time taken from course is able to register to 90% registered, eg. some takes hours, some empty up the close date.
- Courses button can be clicked to go to courses detail page.

## Visual Schedule Builder Plus

Academic Schedule Builder

Semester Schedule Builder

Course List DB

#### **CHEM 104**

- Course Name: General Chemistry I
- Course Prerequisites: CHEM 30 or CHEM 100 (65%)
- Labels: Basic Chemistry, Time consumed,
- Course Description:
- Professor have taught: Dr.A, Professor B
- History Average: 66%
- TextBook: " \*\*\*\*\*\* " (Not required)
- Course content:
- Quiz: Yes, ofter weekly
- Project: No
- Filed: No
- Lab: Yes, every two week
- Syllabus:

Assignment 10%

Lab 20%

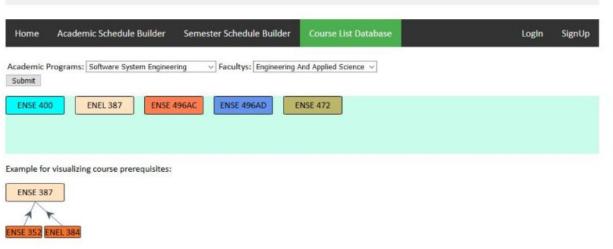
Quiz: 10%

Midterm: 20%

Final Exam: 40%



# University of Regina Visual Schedule Builder Plus



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# Next up

We will be checking on how the course data can be handled as to contact with the UR IT support. And, to keep on exploring more visualization tools that can be used to improve the better usability for the website design. Next, to organize the documents in the github. Lastly, we will finish up the AWS server setup(LAMP: Linux, Apache, MySQL, and PHP), as well as to finish the HTML part of frontend.