

ENSE 477 GroupProject #3

Team Name: **VSB_Plus**

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

Due: **Mar 4, 2021**

Team member (re)introductions

Project Charter		
Project Name	Visual Schedule Builder Plus(VSB_Plus)	
Business Case	For the creation of the Visual Schedule Builder to a better user-friendly design website(VSB_Plus), it will help the users to organize and plan out their time table wisely. In addition, it is also to benefit advisors with their work, less effort on the unnecessary work and more focus on the most important things.	
Team Members		
Name	Role	Responsibilities
Xia Hua	Code developer	- academic builder page(main focus) - academic default page(secondary)
Xinyu Liu	Scrum Master	- course database page - code testing
Jingkang Yang	Code developer	- semester builder page - code testing
Priscilla Chua	Business Analysis	- academic default page(main focus) - academic builder page(secondary) - Documentation

Brief project blurb

The modification of the Visual Schedule Builder into a better user-friendly design website, that will help the users to organize and plan out their time table wisely. As making the website an interactive course schedule builder, with the advising system of the courses to take, and the course detail visualization that can assist the students to layout the desired course schedule with nicer time arrangement. As well, it will assist the advisor with their work, save up time on the unnecessary things and concentrate more on the important ones.

Scrum dates

This scrum,

the start date is February 25, 2021.

end date at the week of March 4, 2021.

Status description

There are still two web pages not quite done for the project. MVP is not yet done completely, but it is almost close to finish. We as a team think the project's current status is on red, that is going off track for our product. We will speed up and finish our coding process for the two website pages. While waiting for the unfinished part to get done, others will move on working for the testing plan. Also, to keep track of updating Kanban for progress monitoring in GitHub to bring the project back to a good condition.

In this scrum,

- Xia Hua - working on the academic builder page
- Xinyu Liu - complete the main page with an analysis charts, build up of the prerequisites algorithm, and adding the controller files
- Jingkang Yang - fixed up all known bugs in the semester builder page, working on the recommend algorithm, and to add a database config files
- Priscilla Chua - doing the academic default page, and the document report

For next scrum,

- Xia Hua - get done for the academic builder page
- Xinyu Liu - focus on the test planning and implementation
- Jingkang Yang - focus on the test planning and implementation
- Priscilla Chua - finish up the academic default page

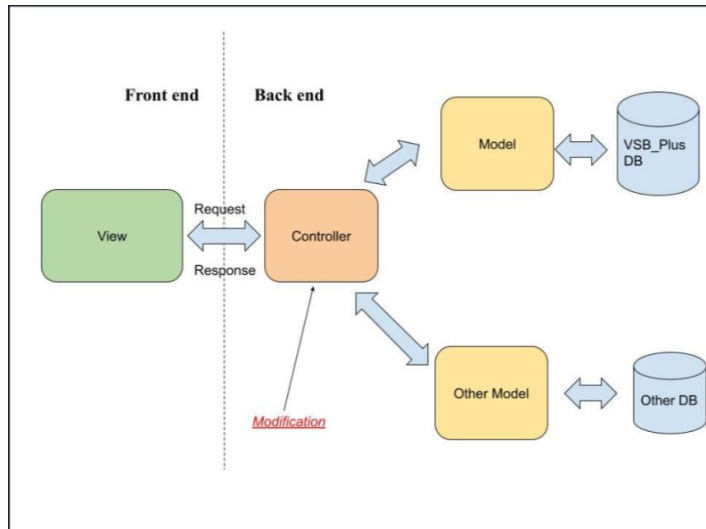
Some meeting comments for the previous scrum/meeting time,

1) concerning the unfinished part:

- our MVP is close to done
- two web pages are left(academic default page & academic builder page)

2) things to be connect to other databases easily:

- not quite easy to connect things to other databases
- needed to modify the controller with
 - changing the database connection of config files
 - to analyze the returned data by the use of controller function
 - might need some path and variable modification



3) to do the prerequisites?if not, that is not ideal:

- added prerequisites as one of the recommended conditions
- manually translate each course prerequisites into expression
- for the shortage,
 - no credit in consideration
 - no grade in consideration

short_name	prerequisite	preExpression
BUS 210	BUS 100 (or ADMN 100) and BUS 260 (or ADMN 260). C...	(BUS 100 ADMN 100) && (BUS 260 && ADMN 260)
BUS 250	BUS 100 (or ADMN 100) and BUS 260 (or ADMN 260).	(BUS 100 ADMN 100) && (BUS 260 ADMN 260)
BUS 260	ENGL 100, or ACAD 100, or KIN 101.	ENGL 100 ACAD 100 KIN 101
BUS 302	Completion of a minimum of 30 credit hours of univ...	NULL
CHEM 104	CHEM 30 or CHEM 100 (minimum 65%); and Precalculus...	NULL
CHEM 105	CHEM 104	CHEM 104
CHEM 140	CHEM 104	CHEM 104
CS 110	Precalculus 30, Calculus 30, or Math 102	MATH 102
CS 115	CS 110 with a minimum grade of 65% and one of MATH...	CS 110 && (MATH 110 MATH 103)

Project issues

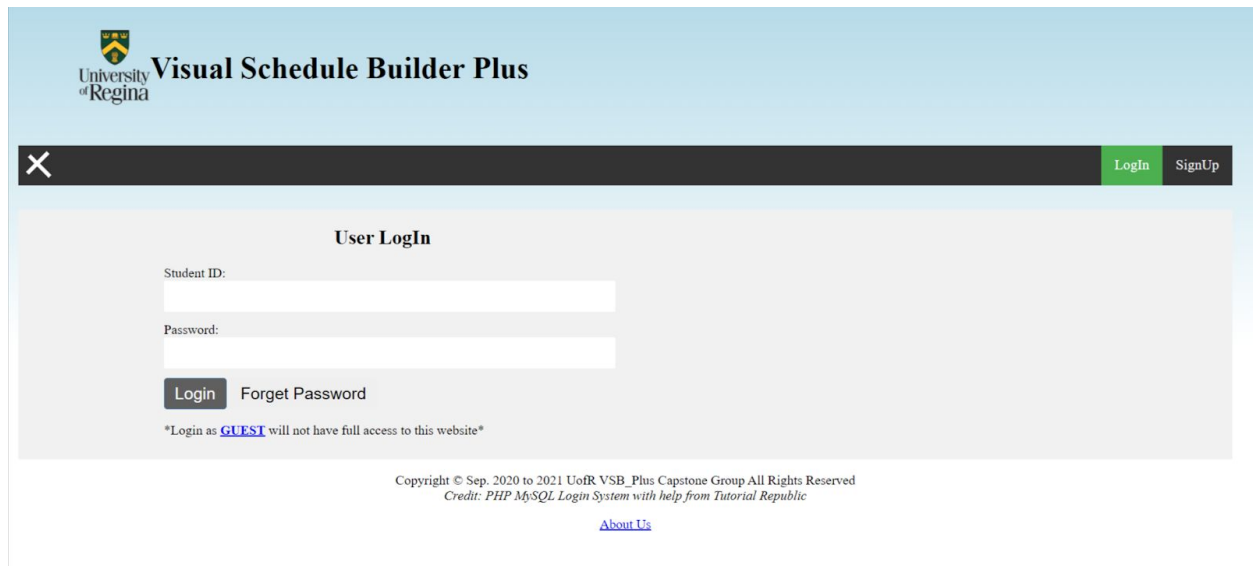
The project schedule is a little bit left behind since our MVP is not quite completed, that is the academic default page and academic builder page.

Project changes

Our website project will not be available for the mobile view, that our pages design is based on the mouse interaction(drag and drop). We might not be able to export the semester schedule, as it is out of the scope of this project.

Project demo

login.php



The screenshot shows the login page for 'Visual Schedule Builder Plus' at the University of Regina. The page has a light blue header with the university logo and title. Below the header is a dark navigation bar with a close button (X) and 'Login' and 'SignUp' buttons. The main content area is a light gray box titled 'User Login'. It contains two input fields for 'Student ID' and 'Password', a 'Login' button, and a 'Forget Password' link. A note states: '*Login as [GUEST](#) will not have full access to this website*'. At the bottom, there is a copyright notice: 'Copyright © Sep. 2020 to 2021 UoR VSB_Plus Capstone Group All Rights Reserved' and 'Credit: PHP MySQL Login System with help from Tutorial Republic', followed by an 'About Us' link.

University of Regina Visual Schedule Builder Plus

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Login SignUp

User Login

Student ID:

Password:

Login Forget Password

Login as [GUEST](#) will not have full access to this website

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signup.php



Visual Schedule Builder Plus



LogIn

SignUp

User SignUp

*** Student ID:

200312345

*** Student Name:

LastName, FirstName

Campus:

University of Regina

Faculty:

Engineering and Applied Science

Program:

Bachelor of Applied Science

Major:

Software Systems Engineering

Minor:

Concentration:

*** Total Credit Hours:

h

*** Grade Point Average:

60

%

*** Password:

*** Confirm Password:

Submit


Reset

*Already have an account? [Login here](#) *


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academicBuilder_Main.php



Visual Schedule Builder Plus



Academic Schedule Builder ▾ Semester Schedule Builder Course List Database

Tsai, Ming

Welcome Tsai, Ming

Summary Board

SID:
200343506

Major:
ISE

Course Left:
46 / 46

GPA:
NaN

Score Distribution

Good Grade


Generate

Poor

NP

Term Average

Performance Semester



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Visual Schedule Builder Plus



Academic Schedule Builder

Semester Schedule Builder

Course List Database

Default Schedule

Term1:

CHEM104 CHEM30 or CHEM100(minimum 65%); and Precalculus 30 or Mathematics C30 with a grade of at least 65%, or AMTH092 with a grade of at least 80%, or MATH102	ENGG123 None	ENGG140 MATH110(may be take concurrently)	MATH110 Precalculus 30 with at least 75%, or Calculus 30 or Mathematics B30 and C30 with a grade of at least 65% in each or Math102	MATH122
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Term2:

CS110	ENGG100	ENGL100	MATH111	PHYS119
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Term3:

CS115	ENEL280	ENEV223	MATH213	PHYS112
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Term4:

CS210	ENEL281	ENEL282	MATH217	STAT289
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Term5:

CS215	CS340	ENEL384	ENSE352	ENSE374
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Term6:

BUS260	ECON201	ENEL380	ENSE353	Approved Elective
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Term7:

ENEL387	ENSE470	ENSE471	ENSE475	Approved Elective
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Term8:

ENGG303	ENSE400	ENSE472	Approved Elective	Approved Elective
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Term9:

ENGG401	ENSE350	ENSE477	Approved Elective	Approved Elective
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Approved Course

ENSE 271	ENSE 271	ENSE 271	ENSE 271
ENSE 271	ENSE 271	ENSE 271	ENSE 271
ENSE 271	ENSE 271	ENSE 271	ENSE 271


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Course to take

ENSE 271	ENSE 271	ENSE 271	ENSE 271
ENSE 271	ENSE 271	ENSE 271	ENSE 271
ENSE 271	ENSE 271	ENSE 271	ENSE 271

< >

academicBuilder_Builder.php(not complete)



Visual Schedule Builder Plus

☰

Academic Schedule Builder

Semester Schedule Builder

Course List Database

Customize Schedule Builder

Credits Earned:

Winter

Spring/Summer

Fall

W

Passed

Great

NP

Good

Excellent


Course Completed

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Course to take

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semesterBuilder.php



Visual Schedule Builder Plus

Academic Schedule Builder ▾

Semester Schedule Builder

Course List Database

Tsai, Ming

Step 1: Choose Semester Fall 2020 ▾

Step 2: Search Class ENGL 100 Submit

Course List

CS 110

ENGG 123

Course Detail Info

CS 110

Programming and Problem Solving

001-070 🔍

An introduction to problem-solving techniques, the fundamental concepts of programming, and the software design process. Topics will include: data types, control structures, scope rules, functions, files, and the mechanics of running, testing and debugging. Problems will be drawn from various science disciplines.

ENGG 123

Engineering Design and Communications

001-091 🔍

Students will be introduced to the concepts of engineering design and communications. In addition, the consequences of engineering projects on society will be explored.

Weekly Schedule & Exam Date

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Aug – Sep 2020

month week

	Mon 8/31	Tue 9/1	Wed 9/2	Thu 9/3	Fri 9/4
7am					
8am					
9am					
10am					
11am					
12pm					
1pm					
2pm					
3pm					
4pm					
5pm					
6pm					
7pm					
8pm					
9pm					

Final Exam Date:

- CS 110 [001]: Saturday, Dec 12 2020 2:00 pm - 5:00 pm
- ENGG 123 [001]: Wednesday, Dec 23 2020 2:00 pm - 5:00 pm

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Credit: Calendar source code from [fullcalendar.io](#) version 5.5.1

Fullcalendar tutorial: Youtube video "JS To-do List #14 FullCalendar - Rendering a Calendar with JavaScript"

Note:

[About Us](#) [API Test](#) [Test CLICK](#)

Courses Completed:

Courses Recommended:

CHEM 104

MATH 110

MATH 122

ENGG 100

ENGL 100

MATH 111

courseDB.php

The screenshot shows the 'Visual Schedule Builder Plus' interface for the University of Regina. The top navigation bar includes 'Academic Schedule Builder', 'Semester Schedule Builder', and 'Course List Database' (which is highlighted). The user 'Tsai, Ming' is logged in. On the left, a 'Faculty' sidebar lists various departments: ENSE, ENEL, ENEV, ENPE, ENIN, ENGG, CS, BUS, and CHEM. The main area displays a list of courses with their descriptions and credit values. The 'ENSE 400' course is selected, and its details are shown on the right, including a 'Num of course in semesters' bar chart. The chart shows the number of lab and lecture hours for the selected course.

University of Regina Visual Schedule Builder Plus

Academic Schedule Builder Semester Schedule Builder Course List Database Tsai, Ming

Select Course: Select Toggle Courses List

Faculty: ENSE, ENEL, ENEV, ENPE, ENIN, ENGG, CS, BUS, CHEM

ENSE 400 3.00 Credit
Systems Engineering Design Project
Description: Students are given the opportunity to propose, develop and present engineering design

CHEM 104 3.00 Credits
General Chemistry I
Description: An introduction to the fundamental principles of chemistry. Topics discussed will include

CHEM 140 3.00 Credits
Organic Chemistry I
Description: An introduction to organic chemistry. Organic functional groups, nomenclature, reactions

CHEM 105 3.00 Credits
General Chemistry II
Description: A continuation of CHEM 104. Topics discussed will include kinetics, equilibrium, acids and

ENGG 123 3.00 Credits
Engineering Design and Communications
Description: Students will be introduced to the concepts of engineering design and communications. In

ENGG 140 3.00 Credits
Mechanics for Engineers Statics
Description: Introduction to statics and mechanics. Includes force vectors, statics of particles and

ENSE 400

- Course Name: ENSE Project Start-up
- ***Prerequisites: ENSE 470 and successful completion of 99 credit hours ***
- Course Description: Students are given the opportunity to propose, develop and present engineering design projects which they are expected to further pursue in ENSE 477. Issues of safety, feasibility, and engineering responsibility are discussed. Student form design teams in this class and are expected to write a project plan document, compose a preliminary design document, and present their project to their fellow students.

Num of course in semesters

Number of Lab Number of Lecture

1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3

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Next up

To complete the two left academic pages. Then, starting to dive into the test planning and debug the code based on the test result.

And the overall work for each member,

- ★ Xia Hua:
 - done for the academic builder page
- ★ Xinyu Liu:
 - test planning
 - implementation
- ★ Jingkang Yang:
 - test planning
 - implementation
- ★ Priscilla Chua:
 - finish the academic default page

Team reflection

As a team, we feel that we are off track since our MVP is not yet done completely, we are a little left behind from the schedule. Our barriers to success are lack of design and coding experience, and UI design is only usable. Lastly, we don't see that we need any help so far.