

ENSE 477 GroupProject #4Team Name: **VSB_Plus**

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

Due: **Mar 25, 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
Priscilla Chua	Business Analysis	- academic default page(main focus) - academic builder page(secondary) - Documentation

Brief project blurb

The redesign of the Visual Schedule Builder into a better user-friendly website, that will help the users to organize and plan out their time table wisely. By 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 March 17, 2021.

end date at the week of March 24, 2021.

Status description

As our MVP no. 1 is now completed, just some code refactoring, testing and the add up new function to do. The team's overall status is yellow-green, that the project is now going back on track. We will continue to focus on our Kanban for progress monitoring on GitHub.

- Xia Hua(green) - finish up with the code refactoring
- Xinyu Liu(green) - done test case for the basic function of the project website
- Jingkang Yang(green) - the refactoring and reinforcing of semester builder
- Priscilla Chua(yellow-green) - still working on the elective courses refactoring, and a new request add up function that is the pop-up information of each course

For this scrum,

- Xia Hua - doing the debug and refactoring on customize builder page
- Xinyu Liu - done the code testing of the current project version
- Jingkang Yang - finish all the mobile views for all web pages, have created an autocomplete search drop-down, and the course pre-reqs pending algorithm version no.2
- Priscilla Chua - working on the academic default page of the sorting of elective courses

For next scrum,

- Xia Hua - working on the code testing, debug, refactoring, the code review, and the summary of the website architecture
- Xinyu Liu - doing the document for the user test plan, and the build up of knowledge base
- Jingkang Yang - creating the user course history management page, and the poster design for project
- Priscilla Chua - finish up academic default page of the sorting electives section, and the new pop-up function of the information for each course

Some meeting comments for the previous scrum/meeting time,

1) concerning of the things not done:

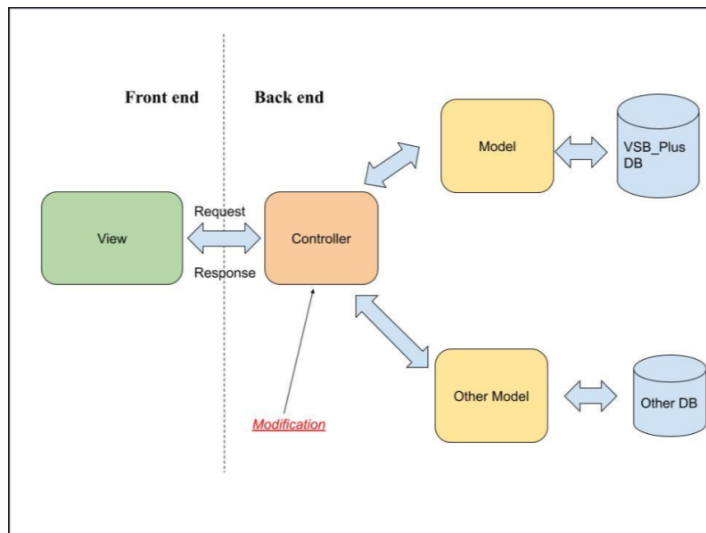
- the MVP no.1 is now completed and is moving on for MVP no.2
- In MVP no.2, it includes code refactoring, bug fixing, and enforcement based on the code testing and user test results

2) prerequisites are a necessary work item; what things happen if I pick a class that needs prerequisites I don't have/to do the prerequisites?if not, that is not ideal:

- to do a course pre-reqs pending algorithm on stage-2
- will handle:
 - credit require
 - course require
 - course grade require
 - semester availability

3) things to be connect to other databases easily(UR as the example):

- In the current version, it is not easy to connect things to other databases
- will need to modification on the controller files




Project: test phase

It has finished the testing on the basic function. With the results, it finds a couple bugs in the course drag function, some spelling mistakes which it had fixed, and some of the diagrams cannot be displayed correctly for the specific course that also was fixed.

Project demo

login.php



Visual Schedule Builder Plus

×LoginSignUp

User Login

Student ID:

Password:

LoginForget Password

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

User Notes:

This web application is developed and test without the support of UofR ITsupport. Some of the courses' data may vary from the UofR official website. In the event of any conflict between this application and the University of Regina, the latter shall prevail.

The Simulateed courses schedules are only for reference, please make the official advice as the standard.

Please do **NOT** block Pop-ups

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Credit: *PHP MySQL Login System with help from Tutorial Republic*

[About Us](#)



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](#).

academicBuilder_Main.php



Visual Schedule Builder Plus



Academic Schedule Builder ▾

Semester Schedule Builder

Course List Database

Priscilla Chua

Welcome Priscilla Chua

Summary Board

Program:
BASc

Year:
1st

Credit Earned:
0 / 136

Average
0

Score Distribution

More details in Grade System

A (80 - 100)

B (70 - 79)

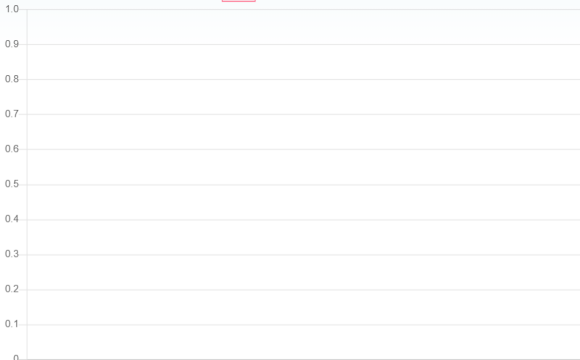
C (60 - 69)

D (50 - 59)

F (NotPass)

Term Average

Performance Semester



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academicBuilder_Default.php



Visual Schedule Builder Plus



Academic Schedule Builder ▾

Semester Schedule Builder

Course List Database

Priscilla Chua

Default Schedule

term1:

CHEM 104
General Chemistry I

ENGG 123
Engineering Design and Communications

ENGG 140
Mechanics for Engineers Statics

MATH 110
Calculus I

MATH 122
Linear Algebra I

term2:

CS 110
Programming and Problem Solving

ENGG 100
Engineering Graphics

ENGL 100
Critical Reading and Writing I

MATH 111
Calculus II

PHYS 119
General Physics II

term3:

CS 115
Object-Oriented Design

ENEL 280
Electrical Circuits

ENEV 223
Engineering, Environment, and Society

MATH 213
Vector Calculus

PHYS 112
Waves and Optics

term4:

CS 210
Data Structures and Abstractions

ENEL 281
Signals, Circuits, and Systems

ENEL 282
Semiconductor Devices

MATH 217
Differential Equations I

STAT 289
Statistics for Engineers

term5:

CS 215
Web and Database Programming

CS 340
Advanced Data Structures and Algorithm Design

ENEL 384
Digital Electronics

ENSE 352
Fundamentals of Computer Systems Architectures

ENSE 374
Software Engineering Management

term6:

BUS 260
Introduction to Organizational Behaviour

ECON 201
Introductory Microeconomics

ENEL 380
Automation and Control

ENSE 353
Software Design and Architecture

Approved
Course Info not found

term7:

ENEL 387
Microcontroller System Design

ENSE 470
Course Info not found

ENSE 471
Course Info not found

ENSE 475
Course Info not found

Approved
Course Info not found

term8:

ENGG 303
Engineering Economics and Project Management

ENSE 400
ENSE Project Start-up

ENSE 472
Digital Networks

Approved
Course Info not found

Approved
Course Info not found

term9:

ENGG 401
Engineering Law and Professionalism

ENSE 350
Mathematical Programming for Software Engineers

ENSE 477
Software Systems Engineering Design Project

Approved
Course Info not found

Approved
Course Info not found

Approved Electives

ENSE:

ENSE 473

ENSE 474

ENSE 479

ENSE 480

ENSE 481

ENSE 482

ENSE 483

CS:

CS 205

CS 315

CS 330

CS 375

CS 405

CS 425

CS 427

ENEL:

ENEL 487

ENEL 489

ENIN:

All Other Course Electives:

CHEM 104

CHEM 140

CHEM 105

ENGG 123

ENGG 140

ENGG 100

ENGG 303

ENGG 401

ENGG 141

ENGG 330

ENGG 411

MATH 110

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Credits: 0

Tips: 1.drag the course form Course to Take box and drop it on Customize Schedule Builder box. The system will match the prerequisite and term for user, if conflict happens some tips will show up.

2.The course name is red when prerequisite conflict happens

3.Term Info is red when term conflict happens

4.Some course is not applied because course changed does not updated

5.Time conflict is not considered.This can be checked in semester builder page

Customize Schedule Builder (Not recommended use in touchscreen)

Winter

--	--	--	--	--

Spr./Sum.

--	--	--	--	--

Fall

--	--	--	--	--

Winter

--	--	--	--	--

Spr./Sum.

--	--	--	--	--

Fall

--	--	--	--	--

Winter

--	--	--	--	--

Spr./Sum.

--	--	--	--	--

Fall

--	--	--	--	--

Course to take

ALL ENSE ENEL CS MATH			
CHEM 104	ENGG 123	ENGG 140	ENGG 100
MATH 110	MATH 122	MATH 111	MATH 213
CS 210	CS 215	CS 340	CS 205
CS 375	CS 405	CS 425	CS 427
PHYS 112	ENEL 280	ENEL 281	ENEL 282
ENEL 387	ENEL 487	ENEL 489	STAT 289
ENSE 353	ENSE 400	ENSE 472	ENSE 350
ENSE 479	ENSE 480	ENSE 481	ENSE 482
ECON 201	ENEV 223	MATH 217	



Course Taken History



— W

— NP


— Passed

— Good

— Great

— Excellent

semesterBuilder.php



Visual Schedule Builder Plus

☰ Academic Schedule Builder ▾ Semester Schedule Builder Course List Database

Priscilla Chua

Step 1: Choose Semester Fall 2020 ▾

Step 2: Search Class ENGL 100 Submit

Course List

MATH 111

ENGG 123

Course Detail Info

MATH 111

Calculus II

001-010 ▾ 🔍

Differentiation and integration of exponential and logarithmic functions; methods of integration and applications; indeterminate forms, L'Hospital's rule and improper integrals; sequences, series, power series and Taylor series.

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:

- MATH 111 [001]: Thursday, Dec 10 2020 7:00 pm - 10:00 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: (Not Draggable)

Courses Recommended: (Drag to Register)

CHEM 104

CS 110

ENGG 100

ENGL 100

ECON 201

ENSE 479

courseDB.php

The screenshot shows the 'Visual Schedule Builder Plus' web application. At the top, there is a header with the University of Regina logo and the title 'Visual Schedule Builder Plus'. Below the header is a navigation bar with three tabs: 'Academic Schedule Builder', 'Semester Schedule Builder', and 'Course List Database' (which is currently selected). The user's name, 'Priscilla Chua', is displayed in the top right corner. Below the navigation bar, there is a search area with a 'Select Course:' dropdown and a 'Select' button. To the left of the main content area is a 'Faculty' sidebar with buttons for various faculties: ENSE, ENEL, ENEV, ENPE, ENIN, ENGG, CS, BUS, and CHEM. The main content area displays a list of courses, each with its name, description, and credit value. The courses listed are: CHEM 104 (General Chemistry I, 3.00 Credits), CHEM 140 (Organic Chemistry I, 3.00 Credits), CHEM 105 (General Chemistry II, 3.00 Credits), ENGG 123 (Engineering Design and Communications, 3.00 Credits), ENGG 140 (Mechanics for Engineers Statics, 3.00 Credits), and ENGG 100 (Engineering Graphics, 3.00 Credits). On the right side of the main content area, there is a detailed view for 'ENSE 400'. This view includes the course name, prerequisites, and a description. Below the description is a bar chart titled 'Num of course in semesters' showing the number of lab and lecture hours for the course. The chart has a y-axis from 0.3 to 1.0 and a legend indicating 'Number of Lab' (pink) and 'Number of Lecture' (orange). The chart shows a single bar for the number of lecture hours, which is approximately 0.9.

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Next up

We will be doing the refactoring of our website pages based on the test results, and to start working on the document reports.

And the overall work for each member,

★ Xia Hua:

- working on the code testing, debug, and refactoring
- code review
- summary of the website architecture

★ Xinyu Liu:

- document for user test plan
- the buildup of knowledge base

★ Jingkang Yang:

- user course history management page
- poster design for project

★ Priscilla Chua:

- the sorting of elective courses
- new function, pop-up information window for each course

Team reflection

As a team, we feel that we are on track as we finished our MVP no.1 for the project, and the code testing. 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.