VSB_PLUS

SCRUM#1

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Project deats

What we are doing

A good design of the Visual Schedule Builder Plus that will help to organize and build up the time table wisely.

Problem we are solving

1. what courses to take first to be able to graduate in time
2. knowing the different limitations of each course
3. which of elective classes to take that will benefit them in the future based on their faculty

Gaps we are filling

1. advising system
2. detailing the course information
3. laid out the benefit elective classes based on different faculty

Innovation and Introduction to the world

1.classification into different faculty

2.based on the faculty, it will give out advice on the courses to take for the students

3.after the students have chosen and built up their desired time schedule, it also gives some command on their time table to help them for better time planning

Project & documentation review

What we are currently working on

1. Researching on the Visual Schedule Builder from different University (lots of University using same schedule builder) and get inspire from some schedule build Apps
2. Brainstorm the most suitable UI design
3. Note down helpful ideas
4. Developing LoFi prototype

Demonstration:

1) Inspire by other product
2) Roadmap(kanban)
3) Empathy map
4) Data visualization sample
5) LoFi prototype

GitHub/Version control “stamp of approval”

https://github.com/yang242j/VSB_Plus

Github

master VSB_Plus / Document /

Nick-liu666 Update .DS_Store

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Scrum#1

Vlogs

.DS_Store

Milestone_based_schedule.pdf

Problem_definition.md

master VSB_Plus / Document / Scrum#1 /

Irving-Hua recommit

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.DS_Store

400Project-Interface brainStorm.pdf

Business_case.pdf

ENSE 400 Project #1 (1)-10-04.pdf

Empathy Map For VSB_Plus.pdf

LoFi_1.pdf

Project Requirements Scrum#1.pdf

Project_charter.pdf

ScrumReport#1-10.04.pptx

Milestone Schedule

MILESTONE-BASED SCHEDULE	
Project Name	VSB_Plus
Milestone	Date
Project intro vlog	Sep 23 2020 (intro vlog)
Business case and project charter Problem & requirements prerequisites Starting of project roadmaps Prototypes(lo-fidelity)	Oct 5 2020 (Scrums #1)
1st project progress video blog (vlog) System/architectural design pictures	Oct 19 2020 (vlog #1)
Role-based access/security provisions Prototypes(hi-fidelity)	Nov, 2 2020 (Scrums #2)
2nd project progress video blog (vlog) Coding	Nov 16 2020 (vlog #2)

Business Case & Charter

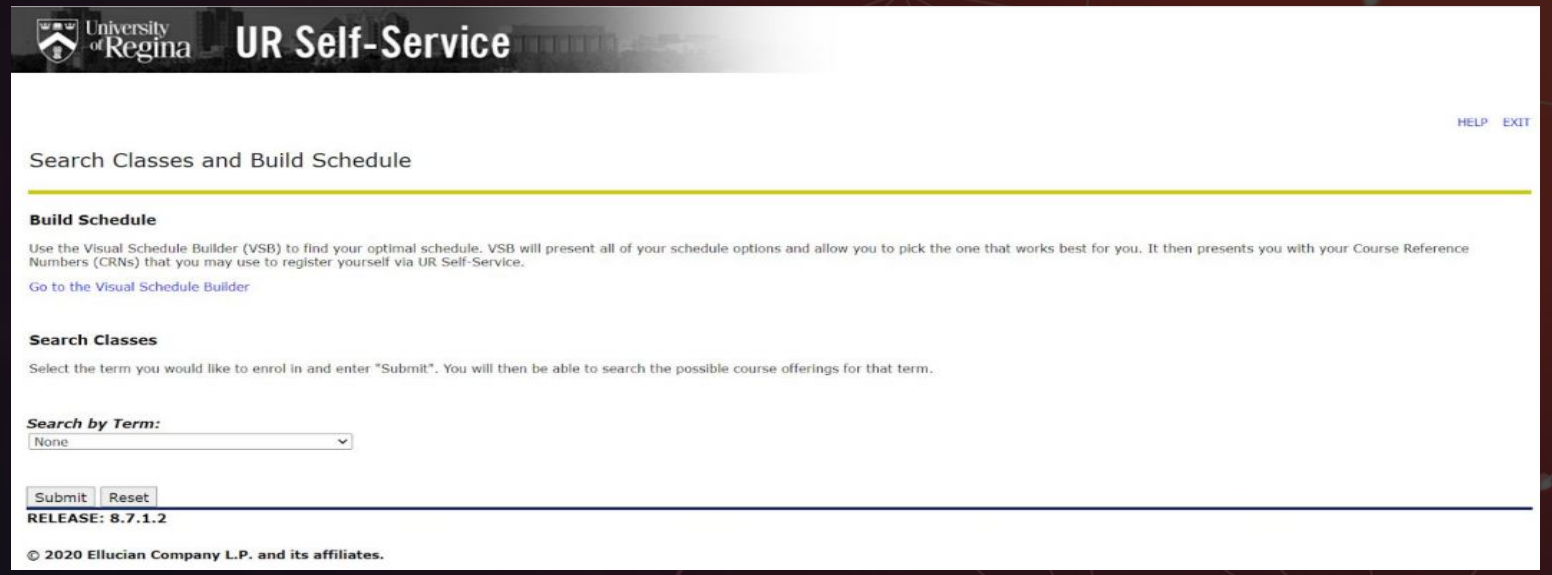
BUSINESS CASE	
Proposed Project	Enhancing the functionality of University of Regina existing Visual Schedule Builder and helping future students course selection easier.
Date Produced	September 19, 2020
Background	The ideas about project is actually came from my roommate. He was trying to register the ENSE 374 course for this fall semester. But it's failed, because he wasn't took the prerequisite class CS 210 before. However, the ENSE 374 is fall-only course, and also it is a prerequisite course for other many high level courses. So, this course is really important to take in this semester for he. Then, he made the appointment with advisor trying to register the course. But still not working. So, he has to wait this course for one year which could delay his graduation. So, we believe there are other students may face the same problem, especially for new students who are unfamiliar with the course registration system. So, we want to do a project to fix this kind question and try to help students to plan their course schedule well.
Business Need/ Opportunity	The website are able to provide reasonable advices on course selection with different condition and semester. This web application can help students arrange their entire academic schedule and have a better plan for the college life. Students will no longer missing any important course in a certain semesters. It helps students to graduate smoothly with less academic mistakes. Meanwhile, students can realize the courses prerequisites and save the time waiting for academic advisors. For the academic advisors, this application will reduce the obvious questions from students which saves time for more valuable academic conversations and will improve work efficiency. Advisors can have more time to focus on other complex work.
Options	We could use the agile software development model to complete the project for handling any project changes or user feedback. We could use concept of Minimum viable product (MVP) in doing our project.
Cost-Benefit Analysis	
This project could help student plan entire course schedule and avoid missing any important course. The student can have better understanding about the personal program process and priority of each course. Meanwhile, it can save the time and energy for the advisors.	

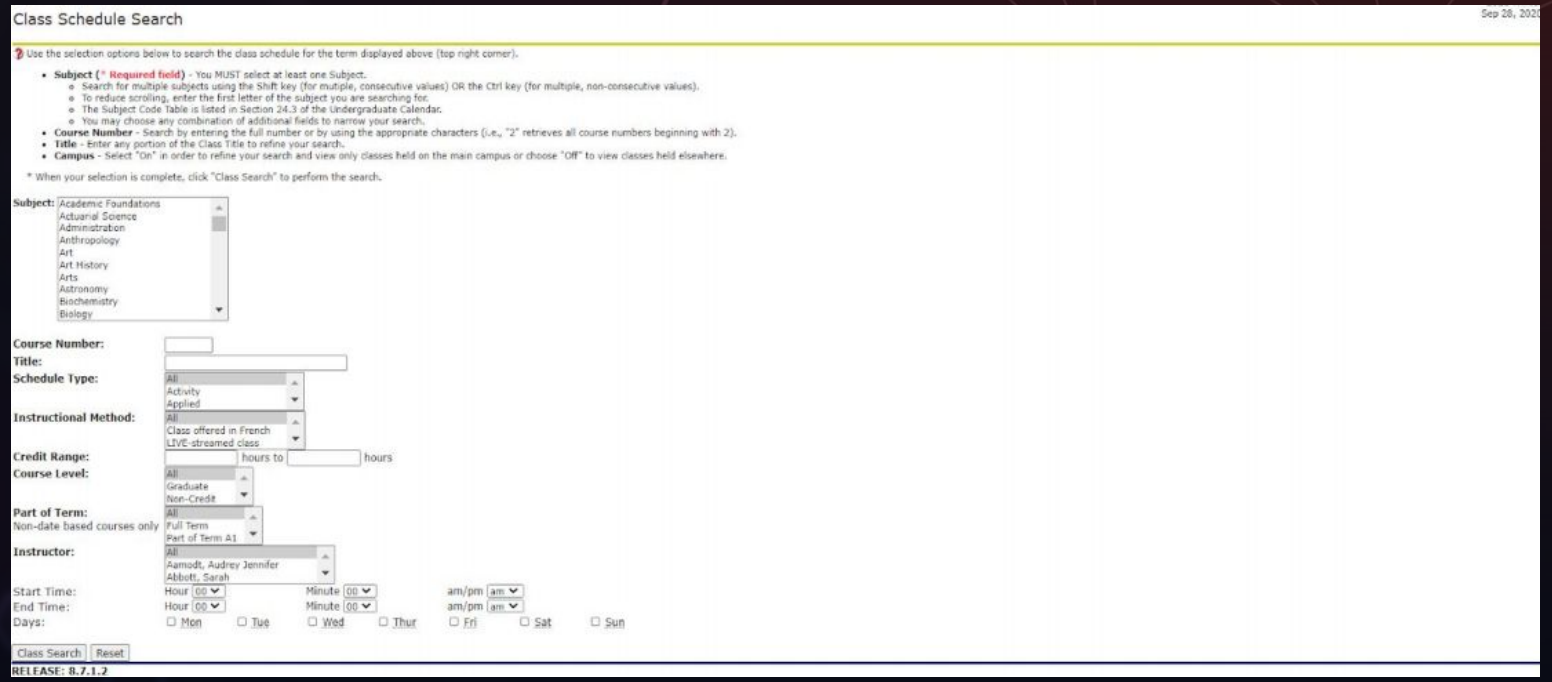
PROJECT CHARTER	
Project Name	Visual Schedule Builder Plus (VSB_Plus)
Date Produced	September 19, 2020
Project Goals	A web-base application which help students arrange the their entire course schedule and provide reasonable advice about course selection.
Project Objectives	For developing a interactive and flexible web application, it required to programmer own a lot of web programming knowledge and back-end management ability.
Project Budget	N/A
Project Sponsor	N/A
Project Manager	
Additional Key Project Stakeholders	
Students and advisors at the University of Regina Other Universities under the similar situation	

Overall Project Milestones	Dates
Project intro vlog	Sep 23 2020
Business case and project charter Problem & requirements prerequisites Starting of project roadmaps Prototypes(lo-fidelity)	Oct 5 2020 (Scrums #1)
1st project progress video blog (vlog) System/architectural design pictures	Oct 19 2020
Role-based access/security provisions Prototypes(hi-fidelity)	Nov. 2 2020 (Scrums #2)

Inspires

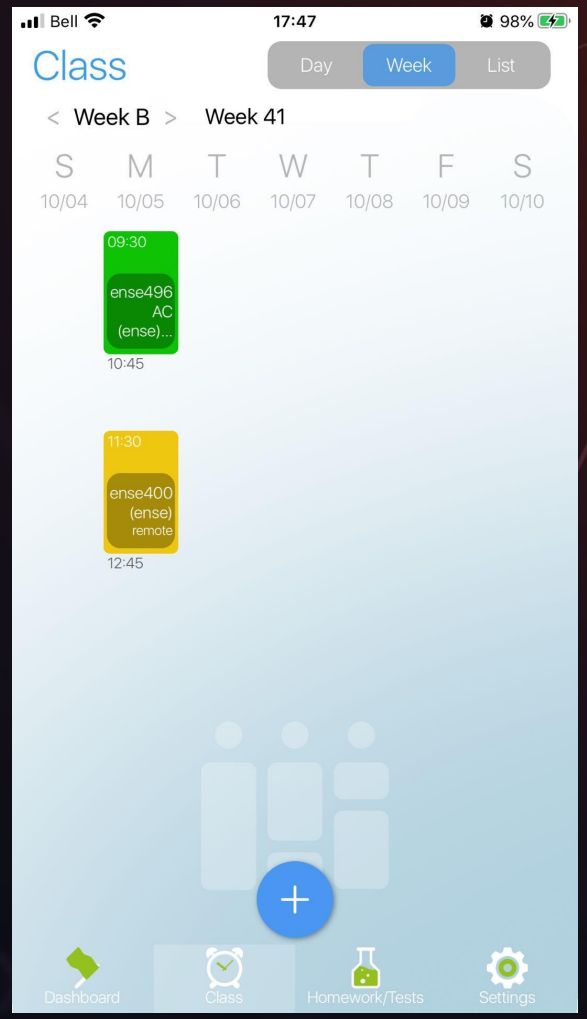
It is a great search function!

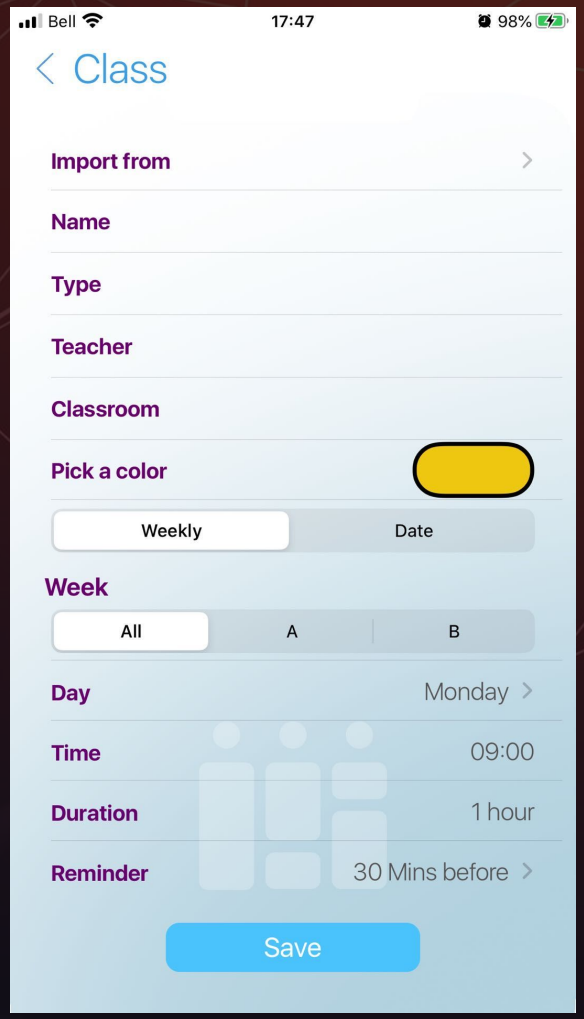




Inspires

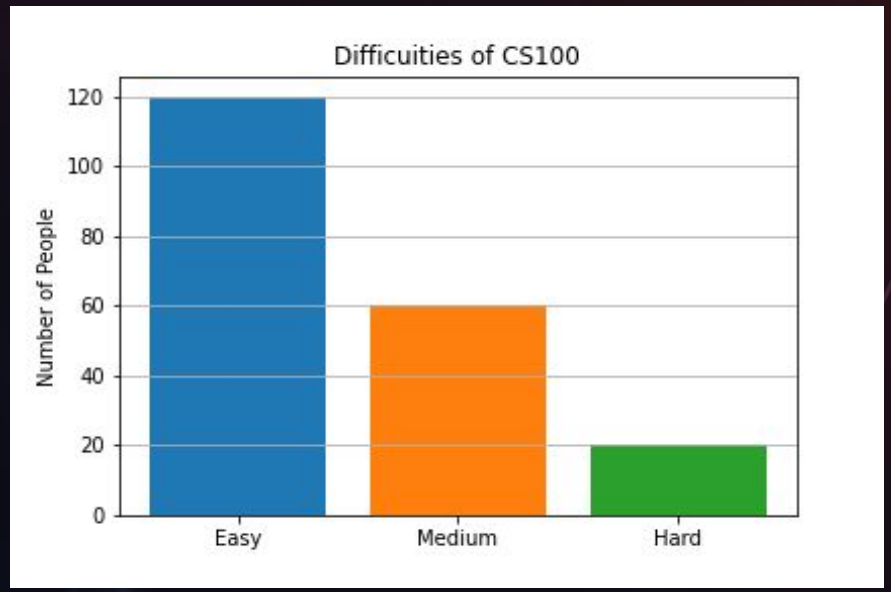
We can use a add button to drag course form inventory, set color of class , add some comment (holidays for example)

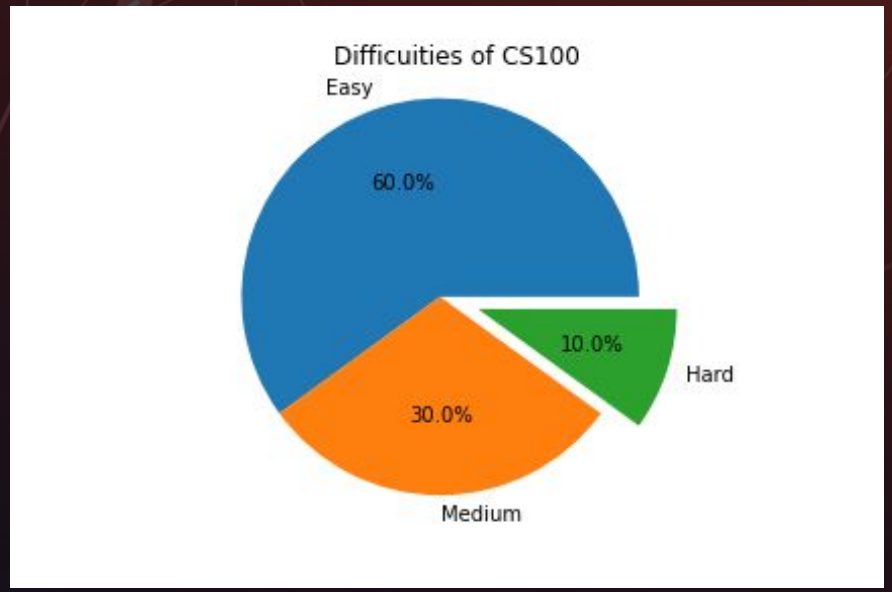




Screenshot from an app called studenttimetable

Data Visualization Sample





- These charts are generated using python matplotlib.
- These are made up sample data

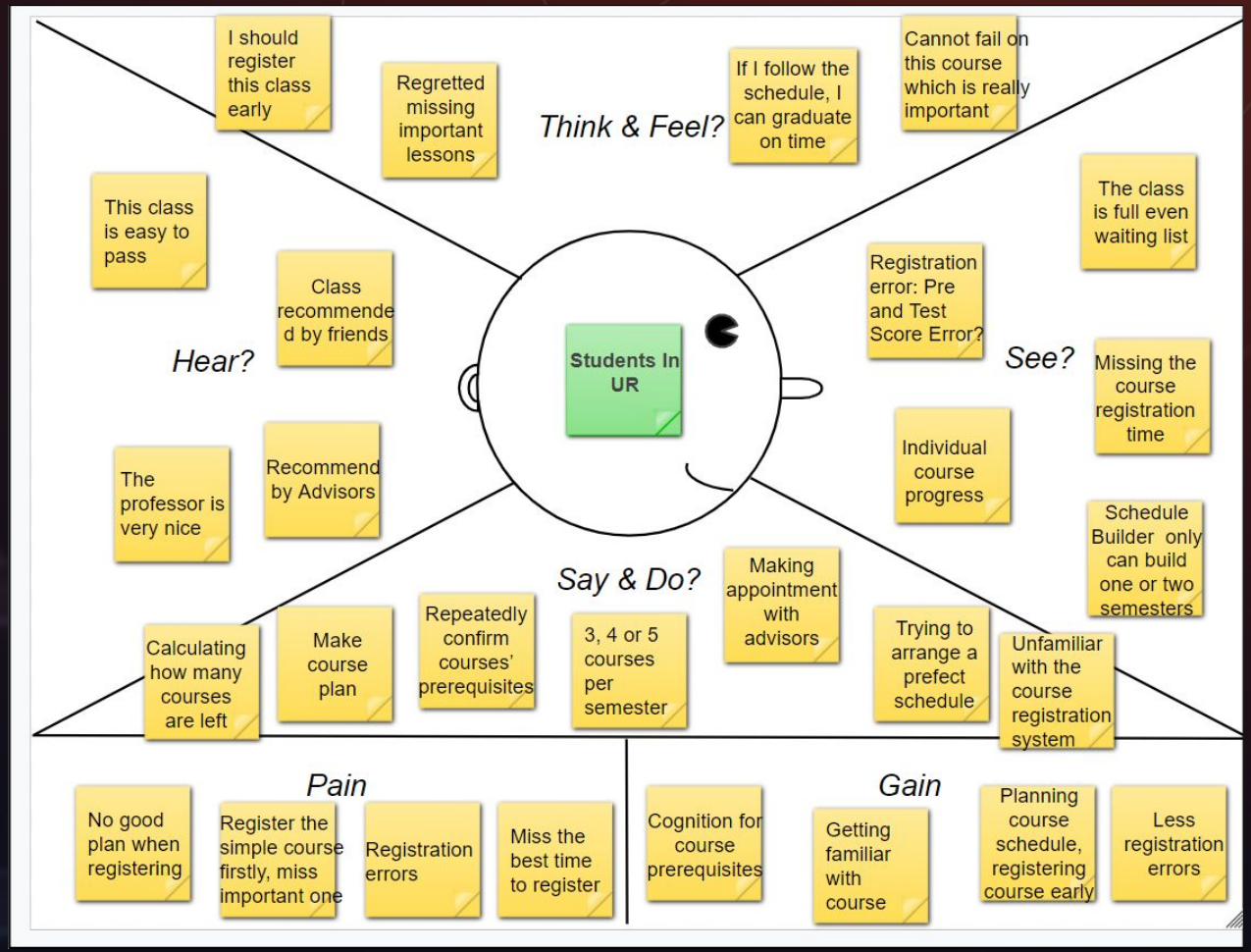
Empathy Map and Brainstorm file

Main Interface
drag courses to timetable
Default schedule : generate by system can be modified
Course recommend : right side box , according to the importance ,decide highly recommend or something else

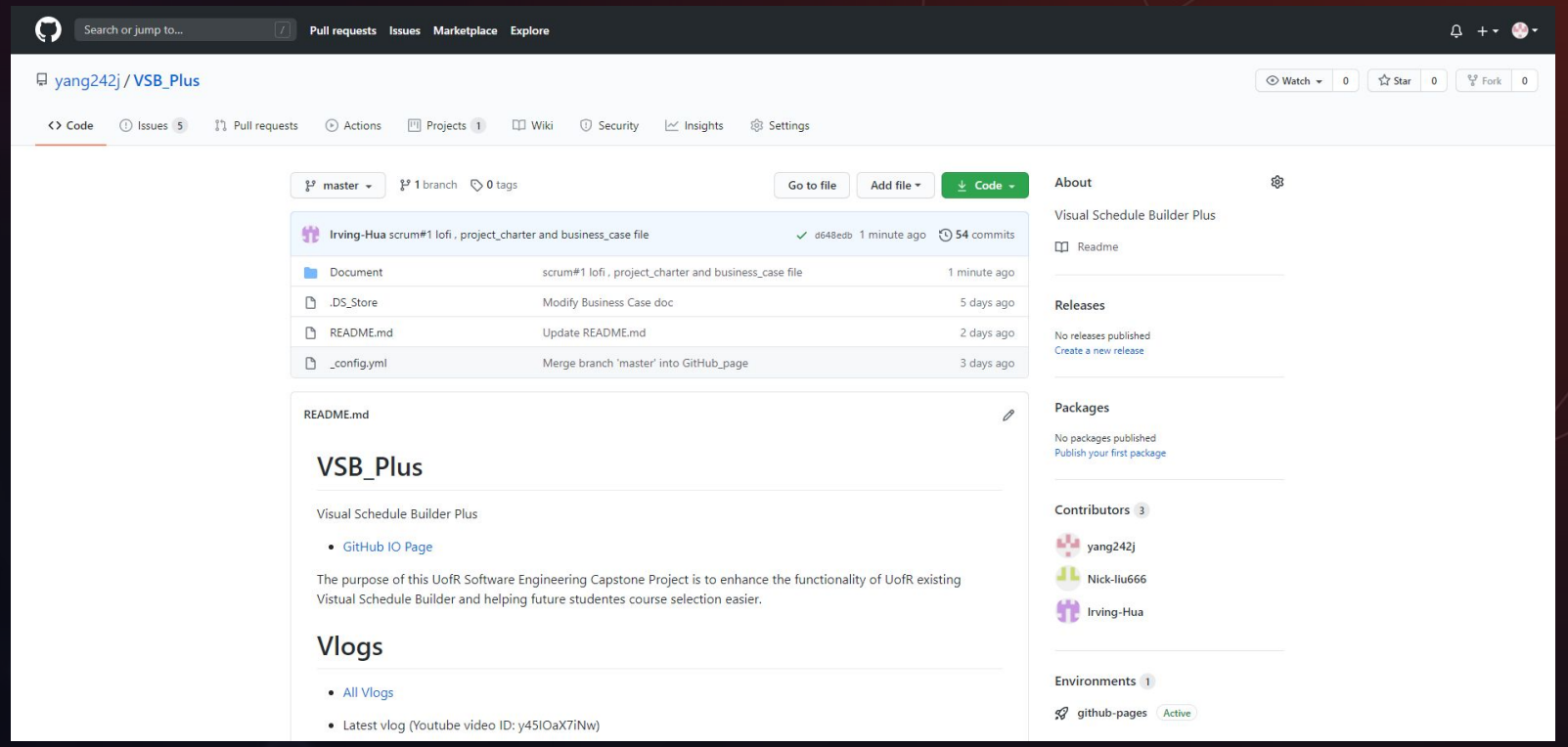
Show Term Info
Modify different term
Show summer only winter only courses
The course type (elective /open elective /technical elective/required/….) give tags to courses and list it

Show final exam schedule
Filter class according the difficult /popularity/professor
Data visualize

Universities' visual schedule builder and degree audit suggestion
Term is fixed , can not modified
Have to search the course and know about it before, can not get help directly form system
Search system should be more user friendly
Two interface patterns one is show more information, another filter the unwanted data
Give permission to student
Build a course relation tree(data visualization)



LoFi and Kanban



https://github.com/yang242j/VSB_Plus/blob/master/Document/Scrum%231/LoFi_1.pdf

Group reflection

01

Do you feel you are on track？

Yes, we are are track. Because we set regular meeting every week and share ideas on brainstorm files, most import is everyone is willing to participate

02

Do you feel there are barriers to your success

Yes, after we do some research on Visual Schedule Builder and degree Audit on Urcourses, they are doing very will on many aspects. The problem is they are not user friendly.

03

Do you need any help going forward

We need the data for different faculty. Need a scientific method to demonstrate classes

04

Question or concerns

Maybe we are not able to use machine learning technologies because of the lack of data

References

Uofr class schedule search
https://banner.uregina.ca:17023/ssbprod/bwskfcls.P_GetCrse

Thank you