VSB_PLUS

Vlog#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:

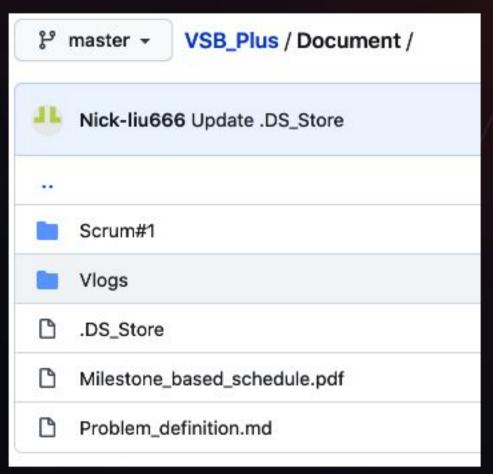
- 1) Inspire by other product
- 2) Roadmap(kanban)
- 3) Empathy map
- 4) Data visualization sample
- 5) LoFi prototype

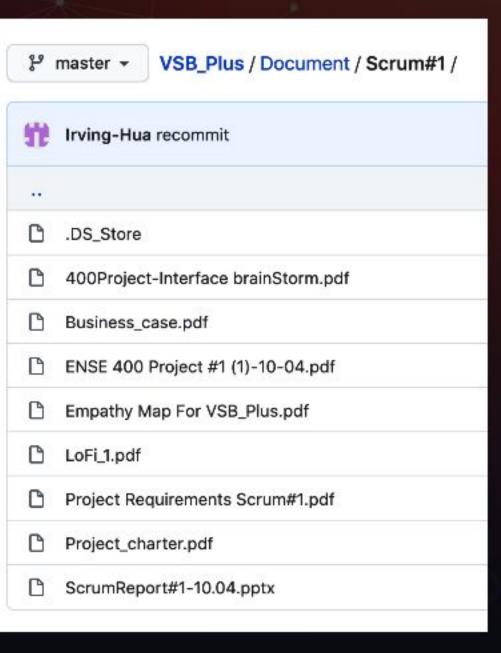
GitHub/Version control "stamp of approval"

https://github.com/yang242j/VSB_Plus

Github







Milestone Schedule



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

Business Case & Charter

пl

| 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 bying 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 now 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 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 Analys | sis | | | |

| PROJECT CHARTER | | | |
|--------------------|--|--|--|
| Project Name | ect Name Visual Schedule Builder Plus (VSB_Plus) | | |
| Date Produced | September 18, 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 viog | Sep 23 2020 | |
| Business case and project charter Problem & requirements prerequisites Starting of project readmaps Prototypes(ic-fidelity) | Opt 6 2020 (Scrums #1) | |
| fat project progress video blog (vlog) System/erchitectural design pictures | Oct 19 2020 | |
| Role-based access/security provisions Prototypes(hi-fidelity) | Nov. 2 2020 (Scrums #2) | |

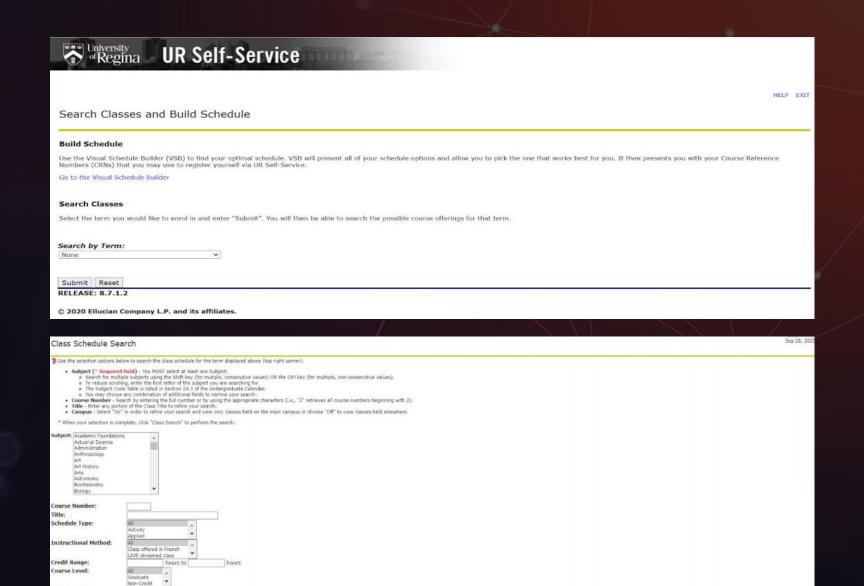
Market Analysis

| Product Name | VSB | Degree Audit | VSB_Plus |
|---------------------------|------------------------------------|---|---|
| Preference | Schedule builder for one semester | Acedamic schedule, less detail | Based on students need, manage both semester schedule and academic calendar |
| Utility | Cotain many class detail info | Helps manage each semester schedule | Having a good overall management of all classes |
| Course Recommendation | No | No | Yes |
| Friendy UI | Yes | Yes | Maybe Yes |
| Professor info | No | No | Yes |
| What Problem solved | Build schedule for a specific term | Overview what course needed for different terms | Customize the scheduled course for multiple terms |
| Show Courses Relationship | Weak | Weak | Strong, visualized courses relationship |
| Further plan | No | Yes, fixed | Yes, dynamic |

Inspires



It is a great search function!



Class Search Reset

Aamodt, Audrey Jennifer

Hour 00 V

□ Mon

Minute 00 V

Minute 00 V

☐ Wed

am/pm am 🗸

am/pm am v

□ Fri

Part of Term: Non-date base Instructor:

Start Time:

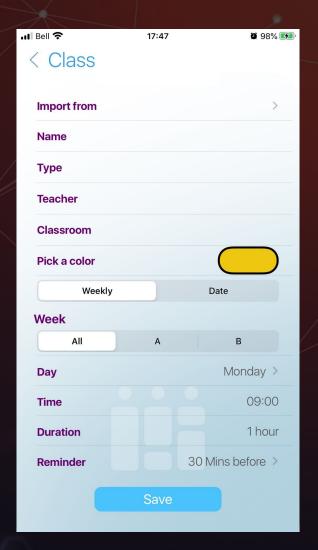
Days:

Inspires



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

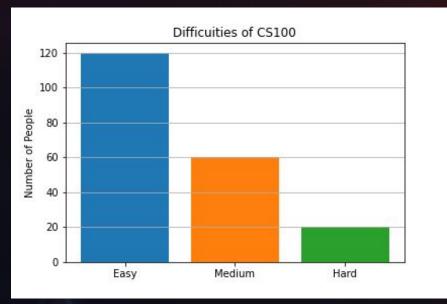


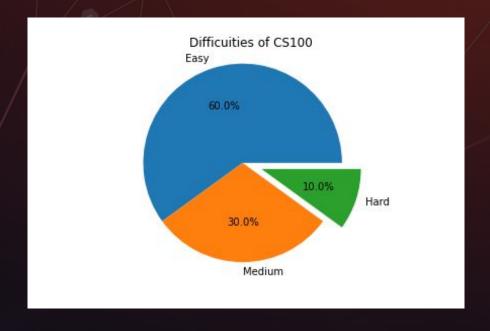


Screenshot from an app called studenttimetable

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

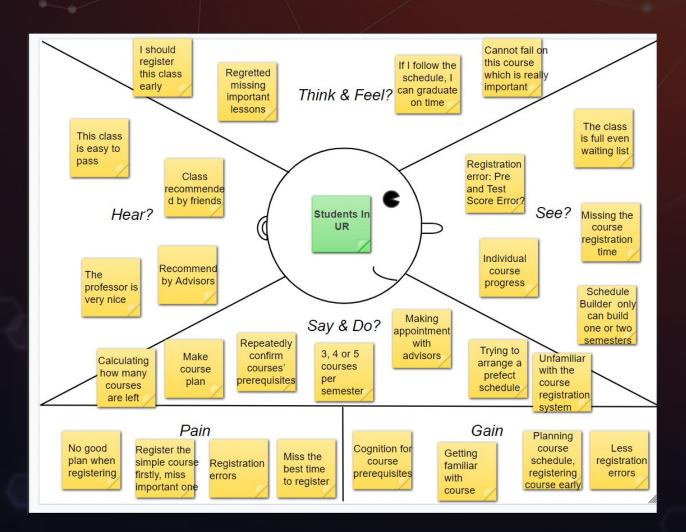
Have to search the course and know about it before, can not get help directly form system

Search system should be more user friendly

Two interface patterns one is show more information, another filter the unwanted data

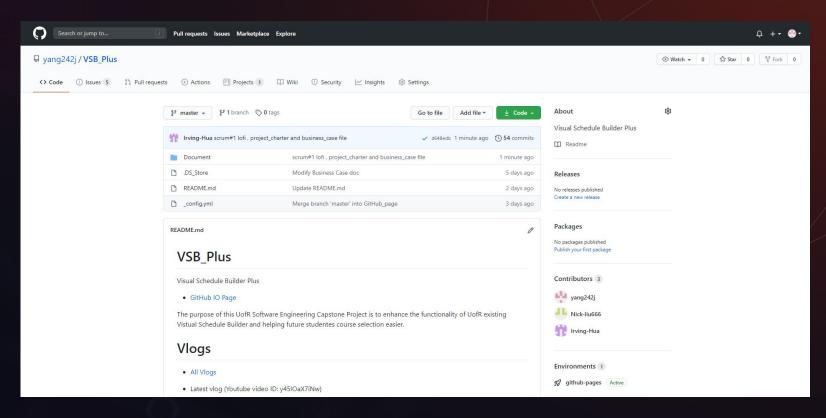
Give permission to student

Build a course relation tree(data visualization)



LoFi and Kanban





https://github.com/yang242j/VSB_Plus/blob/master/Document/Scrum%23 1/LoFi_1.pdf

Next Up



We will be to collect some data with the people in the future based on the experience of using the new design of our Visual Schedule Builder Plus; such as, knowing how they feel about it, what is good and what is confusing/useless that needs to be removed, or new ideas can be added. Lastly, according to data/experience from the users about the new design, we will rethink and redesign the Visual Schedule Builder Plus for better usability. (Probably Hifi, and UML)

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

