

PROJECT REQUIREMENTS

Project Name

Visual Schedule Builder Plus (VSB_Plus)

Functional Requirements

Home Page:

- Students can choice to sign in to their account with
 - ✧ student name
 - ✧ student ID
- According to their name and SID to determine what faculty they are register in

Academic Page (3 views):

- Default linear term registration views
 - ✧ Plan out the courses list that the students require to take in different semester/term
 - ✧ Recommend the courses according to the faculty requirements
 - ✧ Visualize the different limitations of each course (the prerequisites, when it offers, or the credit hours requires)
 - ✧ Display the course that were completed
- Kanban-style
 - ✧ Separating three parts to show the courses (Already Done, Registered Now, Future will Take)
- Calendar view
 - ✧ Terms as the column, 1st row as course supposed to take, 2nd row as courses chosen to register.
 - ✧ Using the arrowed line to show relationship of courses
 - ✧ Able to drag and put the course in Taking selection
 - ✧ For the elective course, fetch the available elective courses from a file, and put the courses in the corresponding term.

Semester Schedule Page:

- Courses list that are available for the students to take in different semester/term
- Course details(will be link to Course Details Page)
- Building up of time schedule as the students have select a course
- Search bar to search for other course

Courses List Page:

- List out all the courses that are offers in U of R along with the filter button(classify in different category)
 - ✧ faculty
 - ✧ availability
 - ✧ elective classes
- Show up details for the selected course.

Technical/Performance Requirements

Technical requirements:

1. Run the back-end server
2. Using JSON to get the course information database
3. Create machine learning model to recommend the course

Performance requirements:

1. Show the course schedule for several semesters.
2. Show up the course details in multiple way
3. Visualize the limitation of course