PROJECT REQUIREMENTS	
Project Name	Visual Schedule Builder Plus (VSB_Plus)

Functional Requirements

1. 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

2. 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.

3. 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

4. Courses List Page:
   - List out all the courses that are offers in U of R along with the filter functionality.
     - ✧ Selecting different faculty buttons to show the relative faculty courses on the list.
     - ✧ Able to filter the different year courses and show the relative selected year courses on the list.
     - ✧ If there is no courses that meeting the filter condition, showing up the word "No course are found!" to remind the user.
     - ✧ One button that allow user to change the course arrangement.
       - ◼ One course arrangement is one class per row with course details (short name, credit and full name and description)
       - ◼ One course arrangement is two class per row with less course details (short name and full name)
   - User can search the specific course with short name of course.
     - ✧ Allow user to input short name of course, according to the first few characters to prompt course short name.
     - ✧ Allow user to select the input course and show up the course details.
     - ✧ elective classes

- Show up details for the selected course.
  - ✧ Show short name, full course name, prerequisites and description of course.
  - ✧ Show up the chart that about course section information.

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