<u>System Request</u>

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Project Name:
CAR (Course Analysis and Registration)

Business Need:

1. NYU Albert, the current course listing service used by the university, has often been rated by students as slow, unappealing, and too complicated for common tasks like searching for courses, building a four-year plan, and checking a course's availability.
2. As well, many departments on campus use different standards for academic plans, and any university procedure requires students to spend time refilling their four-year plans.
3. Students need a faster, more easily accessible system to help them plan their courses.

Functionality:

1. The platform will be a one-stop place for students for everything academic - to track their academic progress, create four year plans, find new courses for upcoming semesters, and find classes and professor ratings.
2. Students can select their major and courses they have taken after logging in, and our platform will suggest courses they can take in the coming semesters to be on track to graduate.
3. Students can search for a class and get a link to the professor ratings if available.
4. Students should be able to identify the semester, location to look up a certain course.
5. Students must be able to check if the desired class is waitlisted, open, closed or offered for a certain semester, and this information should be updated in real time.
6. The students must be able to get the study plan for their majors and check their process.
7. Students must be able to export their four year plans in a format usable by all university departments.
8. Students must be able to store four-year plans to work on them over different sessions.

Expected Value:

- Tangible:

1. Track trends in every major plan the student produces. This would allow us to check these trends against the current/bulletin four-year plans and make informed suggestions on what the students seem to be following
   2. On average, NYUAD students modify their four-year plans over 15 times during course registration and other procedures. We aim to automate this process.
- Intangible:
   1. Increase student satisfaction and reduce stress induced by course registration, helping create good mental health for the student body.
   2. Make creating four-year plans easier and more specialized to the students' current state.
   3. Provide a medium to find ratings and add classes to the student's plan in one place, saving time.

Special Issues or Constraints:

- Time constraints:
   - System must be fully functioning before the next round of course registration occurs (July)
- Technical constraints:
   - The system should update changes in Albert live, and be available 24/7
   - The system should include either a way to save personal information and an authentication system or use local storage.

Github repository: https://github.com/juandapl/car

Class exercise:

2.