SchedulerAPI

Collection of API requests for functionality of the CPSC471 DBMS project. Creates a UofC scheduling program in which users can input the previous courses they have taken, and generate a schedule which will finish a specific UofC program based on their previous courses.

Courses

API requests for course information in the database.

GET DisplayCourse

> http://127.0.0.1:5000/course/department_code/course_number

Parses the database for a course with the department_code and the course_number, and returns the details of the course.

Example Request   DisplayCourse ▼

```
curl --location --request GET 'http://127.0.0.1:5000/course/SENG/300'
```

Example Response   200 OK

Body   Headers (4)

```
{
  "result": "Course not found"
}
```

GET DisplayCourseList

http://127.0.0.1:5000/courseList

Retrieves a list of all courses in the database, and displays them on the screen.

Example Request   DisplayCourseList

```
curl --location --request GET 'http://127.0.0.1:5000/courseList'
```

GET DisplayDepartmentCourses

http://127.0.0.1:5000/course/department_code

Parses through the database for courses with the department_code the same as in the URL. Displays all courses with this same department_code to the screen.

Example Request   DisplayDepartmentCourses ▼

```
curl --location --request GET 'http://127.0.0.1:5000/course/SENG'
```

Schedule

APIs used to generate UofC course schedules for users based on specific UofC programs. The schedules are stored in the database and can be saved and retrieved from the database.

≡ DEL DeleteSchedule

> http://127.0.0.1:5000/ucid/scheduler/scheduleName

Takes the user to a webpage where they can modify their schedule in several ways. The webpage contains a button which allows you to delete the schedule.

Example Request   DeleteSchedule

```
curl --location --request DELETE 'http://127.0.0.1:5000/30100449/scheduler/BraydonSchedule4'
```

GET DisplaySchedule

> http://127.0.0.1:5000/ucid/scheduler/scheduleName/display

Parses the database for a schedule with the name: scheduleName and UCID of ucid. Then displays all courses in the schedule in JSON format.

Example Request   DisplaySchedule

```
curl --location --request GET 'http://127.0.0.1:5000/30100449/scheduler/BraydonSchedule2/display'
```

POST AddCourse

> http://127.0.0.1:5000/ucid/scheduler/scheduleName/addCourse

Takes the user to a webpage where they can enter course information into forms, and then submit that course into the schedule 'scheduleName' for the user with UCID 'ucid'.

Example Request   AddCourse

```
curl --location --request POST 'http://127.0.0.1:5000/30100449/scheduler/BraydonSchedule2/addCourse'
```

DEL DeleteCourse

> http://127.0.0.1:5000/ucid/scheduler/scheduleName/deleteCourse

Takes the user to a webpage where they can enter course information of a course to delete from the schedule 'scheduleName' and user 'ucid' from the database.

Example Request   DeleteCourse

```
curl --location --request DELETE 'http://127.0.0.1:5000/30100449/scheduler/BraydonSchedule2/deleteCourse'
```

GET DisplayScheduleGUI

> http://127.0.0.1:5000/30100449/scheduler/scheduleName/GUI

Displays the scheduler GUI, which is not implemented into the web server.

Example Request   DisplayScheduleGUI

```
curl --location --request GET 'http://127.0.0.1:5000/30100449/scheduler/BraydonSchedule2/GUI'
```

Programs

API requests to get information about UofC programs from the database.

GET DisplayProgramList

http://127.0.0.1:5000/programList

Returns a list of all UofC programs in the database, as well as some of the program details such as the faculty it belongs to.

Example Request   DisplayProgramList

```
curl --location --request GET 'http://127.0.0.1:5000/programList'
```

GET DisplayFacultyPrograms

http://127.0.0.1:5000/program/faculty_name

Parses the database for all Programs with the given faculty_name, and returns a list of all the programs found.

Example Request   DisplayFacultyPrograms

```
curl --location --request GET 'http://127.0.0.1:5000/program/Science'
```

Example Response   200 OK

Body   Headers (4)

```
{
  "Programs in faculty": []
}
```

GET DisplayProgramAccreditations

> http://127.0.0.1:5000/program/faculty_name/program_name

Parses the database for all program accreditations with the same faculty_name and program_name given. Returns a list of program accreditations to the screen.

Example Request   DisplayProgramAccreditations

```
curl --location --request GET 'http://127.0.0.1:5000/program/Science/ComputerScience'
```

UserInfo

API requests for the users previous course information. Used to add course information to the database or retrieve previous course information from the database.

POST AddCourse

> http://127.0.0.1:5000/ucid/addUofCCourse

Takes the user to the webpage in which they can enter course information into forms, which then adds a previous UofC course they took into the database. The 'ucid' is an int of the UCID of the current user.

Example Request

```
curl --location --request POST 'http://127.0.0.1:5000/30100449/addUofCCourse'
```

DEL DeleteCourse

http://127.0.0.1:5000/ucid/deleteCourse

Takes the user to a webpage where they can enter course information, which then deletes that course from the database under their ucid. The 'ucid' is an int for the UCID of the current user.

Example Request   DeleteCourse

```
curl --location --request DELETE 'http://127.0.0.1:5000/30100449/deleteCourse'
```

POST AddNonUofCEducation

http://127.0.0.1:5000/ucid/addNonUofCEducation#

Takes the user to a webpage in which they can enter their previous education into a form. When they click submit, their education is added to the database.

Example Request   AddNonUofCEducation

```
curl --location --request POST 'http://127.0.0.1:5000/30100449/addNonUofCEducation'
```

GET DisplayCoursesTaken

Takes in the UCID of the user, and returns a list of all courses they have previously taken. These courses would have been added previously by the user.

Example Request   DisplayCoursesTaken

```
curl --location --request GET 'http://127.0.0.1:5000/30100449/displayPastUofCCourses'
```