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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.

NOTE: https://httpbin.org (https://httpbin.org) is being used as a placeholder website for now, until our website is functional.

Courses

API requests for course information in the database.

GET DisplayCourse

> https://httpbin.org/course?CourseName=name&CourseCode=code

Parses the database for a course with the CourseName @name and the CourseCode @code, and returns the details of the course.

PARAMS

CourseName

name

Name of the course in the database.

CourseCode

code

Code of the course in the database.

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Example Request   DisplayCourse

```
curl --location --request GET 'httpbin.org/course?CourseName=name&CourseCode=code'
```

GET DisplayCourseList

https://httpbin.org/courselist

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

Example Request   DisplayCourseList

```
curl --location --request GET 'httpbin.org/courselist'
```

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.

POST GenerateSchedule

https://httpbin.org/scheduleGenerate?UCID=ucid&ScheduleName=sname&ProgramName=pname&FacultyName=fname

Generates a UofC course schedule that completes the program @pname. The schedule is then outputted to the user in the GUI.

PARAMS

UCID

ucid

UCID of the user.

ScheduleName

sname

Name of the course schedule that the user is creating.

ProgramName

pname

Name of the program that the schedule is going to complete.

FacultyName

fname

Name of the faculty that the program is a part of.

Example Request   GenerateSchedule

```
curl --location --request POST 'httpbin.org/scheduleGenerate?UCID=ucid&ScheduleName=sname&ProgramName=pnar
```

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DEL DeleteSchedule

https://httpbin.org/scheduleDelete?UCID=ucid&ScheduleName=sname

Takes the UCID of the user and the schedule name that they want to delete. It then deletes that schedule from the database.

PARAMS

UCID

ucid

UCID of the user who owns the schedule

ScheduleName

sname

Schedule name to delete.

Example Request   DeleteSchedule

```
curl --location --request DELETE 'httpbin.org/scheduleDelete?UCID=ucid&ScheduleName=sname'
```

GET DisplaySchedule

```
https://httpbin.org/scheduleDisplay?UCID=ucid&ScheduleName=sname
```

Displays the schedule that the user specifies in the GUI. Shows all courses in the semesters that they are scheduled in, as well as the program that the schedule completes.

PARAMS

UCID

ucid

UCID of the user that owns the schedule to display.

ScheduleName

sname

Name of the schedule to display

Example Request   DisplaySchedule

```
curl --location --request GET 'httpbin.org/scheduleDisplay?UCID=ucid&ScheduleName=sname'
```

POST AddCourse

https://httpbin.org/scheduleAddCourse?UCID=ucid&ScheduleName=sname&Season=season&Year=year&CourseName=c
name&CourseCode=ccode&SectionNumber=secnum

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Adds a specific course instance to the schedule of the user with @ucid and to the schedule @sname.

PARAMS

UCID

ucid

UCID of the user.

ScheduleName

sname

Schedule of the user in which the course is to be added to.

Season

season

Season of the course instance that is to be added to the schedule.

Year

year

Year of the course instance to be added to the schedule.

CourseName

cname

Name of the course to be added to the schedule.

CourseCode

ccode

Code of the course to be added to the schedule

SectionNumber

secnum

Section number of the course instance to be added to the schedule

Example Request   AddCourse

```
curl --location --request POST 'httpbin.org/scheduleAddCourse?UCID=ucid&ScheduleName=sname&Season=season&
```

DEL DeleteCourse

> https://httpbin.org/scheduleDeleteCourse?UCID=ucid&ScheduleName=sname&Season=season&Year=year&CourseName=cname&CourseCode=ccode&SectionNumber=secnum

Deletes a course from the specified schedule of the user with UCID @ucid.

PARAMS

UCID

ucid

UCID of the user who wants to delete a course from one of their schedules.

ScheduleName

sname

Name of the schedule to delete a course from.

Season

season

Season of the course instance to delete.

Year

year

Year of the course instance to delete.

CourseName

cname

Name of the course to delete.

CourseCode

ccode

Code of the course to delete

SectionNumber

secnum

Section number of the specific course instance to delete from the schedule.

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Example Request   DeleteCourse

```
curl --location --request DELETE 'httpbin.org/scheduleDeleteCourse?UCID=ucid&ScheduleName=sname&Season=se
```

Programs

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

GET DisplayProgramList

https://httpbin.org/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, and whether it is a major or a minor.

Example Request   DisplayProgramList

```
curl --location --request GET 'httpbin.org/programlist'
```

GET DisplayProgramRequirements

https://httpbin.org/program?ProgramName=name

Displays a list of all courses that are required in the give program @name. Displays the name and code of each course.

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PARAMS

ProgramName

name

The name of the UofC program that is returned.

Example Request   DisplayProgramRequirements

```
curl --location --request GET 'httpbin.org/program?ProgramName=name'
```

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 GetPreviousCourses

> https://httpbin.org/getUsersCourses?UCID=ucid

The user logs into their myuofc account and our algorithm scrapes the courses that they have taken from the myuofc website and adds them to our database.

PARAMS

UCID

ucid

UCID of the user

Example Request

```
curl --location --request POST 'httpbin.org/getUsersCourses?UCID=ucid'
```

POST AddCourse

> https://httpbin.org/addCourse?UCID=ucid&CourseName=name&CourseCode=code&Grade=grade&Season=season&Year=year

Adds a course to the database that the user has already taken. Used if the web-scraping algorithm does not add the course automatically.

PARAMS

UCID

ucid

UCID of the user.

CourseName

name

Name of the course to add.

CourseCode

code

Code of the course to add.

Grade

grade

Grade that the user got in the course.

Season

season

Season that the user took the class in: Winter, Fall, or Spring

Year

year

Year that the user took the class in.

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Example Request   AddCourse

```
curl --location --request POST 'httpbin.org/addCourse?UCID=ucid&CourseName=name&CourseCode=code&Grade=gra
```

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DEL DeleteCourse

> https://httpbin.org/deleteCourse?UCID=ucid&CourseName=name&CourseCode=code

Deletes a course from the previous courses section of the database for the user with UCID=@ucid.

PARAMS

UCID

ucid

UCID of the user who wants to delete a course from their info.

CourseName

name

Name of the course to delete.

CourseCode

code

Code of the course to delete.

Example Request   DeleteCourse

```
curl --location --request DELETE 'httpbin.org/deleteCourse?UCID=ucid&CourseName=name&CourseCode=code'
```

POST AddNonUofCEducation

https://httpbin.org/addEducation?UCID=ucid&Education=education

A user adds their previous education to the database.

PARAMS

UCID

ucid

UCID of the user who wants to add their info into the database.

Education

education

Description of the previous education they want to add.

Example Request   AddNonUofCEducation

```
curl --location --request POST 'httpbin.org/addEducation?UCID=ucid&Education=education'
```

GET DisplayCoursesTaken

https://httpbin.org/previousCourses?UCID=ucid

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 either manually or through our web-scraping algorithm.

PARAMS

UCID

ucid

UCID of the user.

Example Request

```
curl --location --request GET 'httpbin.org/previousCourses?UCID=ucid'
```