# Status Codes:

* 200 if action was successful
* 401 if user is unauthorized, such as if the cookie has expired

# Additional notes:

* Besides the get login request, all calls will provide the session ID (Cookie) as a parameter

# All user:

* Get login(/authentication/login):
  + Parameters:
    - netID
    - password
  + Returns:
    - Session ID (Cookie)
* Get update:
  + Checks to see if any of the lectures, which the user is attending, has been cancelled or moved online.
  + Parameters:
  + Returns:
    - A list that contains all the lectures that are updated.
* Get schedule
  + Parameters:
    - Month (should this be explicitly provided?)
  + Returns:
    - Lecture info
    - Hours
    - No of students

# Students:

* Get Available Lectures:
  + Parameters:
    - <Optional> Filter parameters
  + Returns:
    - A list of Lectures the student can sign up to
* Put Cancel Attendance:
  + Parameters:
    - Lecture ID
  + Returns:
    - Status code
      * 404 if student not enrolled in lecture / lecture not found
* Post register for a lecture:
  + Updates the record of the specified lecture to indicate that this student is attending
  + Parameters:
    - Lecture ID.
  + Returns:
    - Status code
      * 403 if capacity is already met or another requirement of signing up for this course is not met.
      * 404 if student lecture does not exist
* Post Sign up for course:
  + Signs a student up for the lectures of a course
  + Parameters:
    - course ID
  + Returns:

# Teachers:

* Put Cancel lecture:
  + Parameters:
    - Lecture ID
    - Moved online or cancelled
  + Returns:
* Post Lecture:
  + Parameters:
    - Lecture info
    - Hours
    - Student set
  + Returns:
    - generated lecture ID
* Delete Lecture:
  + Parameters:
    - Lecture ID
* Put update Lecture:
  + Make some changes to the lecture such as the time slot or the teacher
  + Parameters:
    - Lecture ID
    - Updated Lecture info

# Faculty Member:

* Post User:
  + Adds a user to the system.
  + Parameters:
    - NetID
    - Password
    - Role
  + Returns:
* Post Room:
  + Adds a room to the system.
  + Parameters:
    - room name
    - room capacity
  + Returns:
    - Room ID
* Delete User:
  + Removes a user from the system.
  + Parameters:
    - NetID
* Put update capacity:
  + Updates the constraints on maximum capacity of lecture halls
  + Parameters:
    - Threshold
      * Capacities above and below this threshold will have different factors scaling the size of their maximum capacity
    - Lower percentage
    - Upper percentage
* Put update time gap:
  + updates the minimum time two between two lectures in the same room
  + Parameters:
    - Time

# Other:

|  |  |  |
| --- | --- | --- |
| **TYPE** | **PATH** | **DESCRIPTION** |
|  |  |  |
|  |  |  |