**REST API**

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| **HTTP Verb** | **URL** | **Request** | **Response** |
| POST | /auth | * username (String) * password (String) | * access\_token * user\_type (“instructor”/”student”) |
| POST | /register | If Student:   * username (String) * password (String) * email (String) * first\_name (String) * last\_name (String) * user\_type (String) * programOfStudy (String)   If Instructor:   * username (String) * password (String) * email (String) * first\_name (String) * last\_name (String) * user\_type (String) | * status (200/404) * message |
| POST | /createTeamParams | * course\_code (String) * course\_section (Char) * minimum\_num\_students * maximum\_num\_students * deadline | * status * message |
| GET | /teamParams |  | * status * teamParams (List of teamParams) * For every element in teamParams   + \_id (Team Parameter id)   + courseId (Id of associated course code)   + course\_code (String)   + course\_section (Char)   + deadline   + maximumNumberOfStudents (int)   + minimumNumberOfStudents (int) |
| POST | /createTeam | * team\_param\_id * team\_name * team\_members (list of student usernames) | * status * message |
| GET | /teams |  | * status * teams (list of teams) * For every team in teams   + \_id (team Id)   + dateOfCreation (MM/DD/YY HH:MM:SS)   + liason (username)   + requestedMembers (list of student usernames)   + status   + teamMembers (list of student usernames)   + teamName (String)   + teamParamId (id of associated team Param)   + teamSize (int) |
| POST | /joinTeams | * team\_ids (list of selected team ids) | * status * message |
| GET | /viewRequestedMembers | * team\_id | * status * message * requestedMembers (list of usernames) |
| POST | /acceptMembers | * team\_id * list\_of\_usernames | * status * message |
| GET | /students |  | * list of students, for each student:   + \_id   + email   + firstName   + lastName   + programOfStudy   + username |
| GET | /incompleteTeamsInTeamParam | * teamParam\_id | * status * message (if error occurs) * list\_of\_teams * For each team in list\_of\_teams   + \_id (team Id)   + dateOfCreation (MM/DD/YY HH:MM:SS)   + liason (username)   + requestedMembers (list of student usernames)   + status (incomplete/complete)   + teamMembers (list of student usernames)   + teamName (String)   + teamParamId (id of associated team Param) * teamSize (int) |
| GET | /liasionTeams |  | * status * message (if error) * list\_of\_teams * For each team in list\_of\_teams   + \_id (team Id)   + dateOfCreation (MM/DD/YY HH:MM:SS)   + liason (username)   + requestedMembers (list of student usernames)   + status (incomplete/complete)   + teamMembers (list of student usernames)   + teamName (String)   + teamParamId (id of associated team Param) * teamSize (int) |