CPSC 449 - Project 1

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1.USERS

Users include information about students who are enrolled in course 449. The information includes student username, password, email id.

Endpoints

POST	/users/signUp

Creates an account. Returns true if username is available, email address is valid, and password meets complexity requirements.

Request Body

Parameters	Required/Optional	Description	Type
username	Required	A name that uniquely identifies you	String
password	Required	A valid password	String
emailid	Required	CSUF student email id	String

Sample Request

```
curl -d "username=JabbaTheHut&password=#4jkh9)A&emailid=jbhut@csu.fullerton.edu"
-X POST https://api.classprojects.edu/users/signUp
```

Sample Response

```
{
    'username-created': true

}
```

Response Definition

Response Item	Description	Data type
username-created	Returns true if username is available, email address is valid, and password meets complexity requirements.	boolean

GET	/users/authenticateUser

Returns true if the password parameter matches the password stored for the username.

Query String Parameters

Parameters	Required/Optional	Description	Type
username	Required	A name that uniquely identifies you	String
password	Required	A valid password	String

Sample Request

```
curl -I -X GET
"https://api.classprojects.edu/users/authenticateUser?username=JabbaTheHut&password
=#4jkh9)A"
```

Sample Response

```
{

    'authenticated': true

}
```

Response Definition

Response Item	Description	Data type
authenticated	Returns true if the password parameter matches the password stored for the username.	boolean

GET	/users/resetPassword

Sends an email to the user's registered email address with a link to reset their password

Query String Parameters

Parameters	Required/Optional	Description	Type
username	Required	A name that uniquely identifies you	String

Sample Request

```
curl -I -X GET "https://api.classprojects.edu/users/resetPassword?username=JabbaTheHut"
```

Sample Response

```
{

   'email-sent': true

}
```

Response Definition

Response Item	Description	Data type
email-sent	Sends an email to the user's registered email address with a link to reset their password.	boolean

PUT	/users/changePassword

Sets the user's password to a new value.

Request Body

Parameters	Required/Optional	Description	Type
username	Required	A name that uniquely identifies you	String
password	Required	A valid password	String

Sample Request

```
curl -X PUT -d "username=JabbaTheHut&password=#4jkh9)A"  -X POST
"https://api.classprojects.edu/users/signUp"
```

Sample Response

```
{

    'password-change': true

}
```

Response Definition

Response Item	Description	Data type
password-change	Sets the user's password to a new value.	boolean

2.Projects

Contains information about the various projects to be completed by the students in the current semester. Contains data like project id, project name, description, max group size, deadline.

Endpoints

Get	/projects/listProjects

Sends the user the list of all projects available for the course.

Query String Parameters/ Path parameters

None required

Sample Request

```
curl -I -X GET "https://api.classprojects.edu/projects/listProjects
```

Sample Response

```
{
  'Projects':[
    {
      'project-id' : 1,
```

```
      'project': 'Save Leah',

      'description':'Lorem ipsum dolor sit amet, consectetur adi….',

      'deadline': 2/24/2021 ,

      'max-group-size': 3

    },

    {

      'project-id' : 2,

      'project': 'Do Something!!!!',

      'description':'Lorem ipsum dolor sit amet, consectetur adipis',

      'deadline': 3/24/2021 ,

      'max-group-size': 2

    }

  ]

}
```

Response Definition

Response Item	Description	Data type
project-id	Unique Id for projects	int
project	Title of the project	string
description	A description of the project	string
deadline	Date the project is due	date
max-group-size	Max number of people in the group	int

GET	/projects/searchProjects

Returns the list of the available projects matching the specified description.

Query Parameter

Parameters	Required/Optional	Description	Type
description	Required	A sentence to describe a project that might be in title or description of the project.	String

Sample Request

```
curl -I -X GET
"https://api.classprojects.edu/projects/searchProjects?description=destroy%2%deathstar"
```

Sample Response

```
{
   'Projects':[
     {
       'project-id' : 1,
       'project': 'Attack the empire' ,
       'description':'Destroy deathstar and defeat darth vader ',
       'deadline': 2/24/2021 ,
       'max-group-size': 3
     },
     {
       'project-id' : 2,
       'project': 'kill han solo',
```

```
        'description':'Destroy planet with deathstar ',

        'deadline': 3/24/2021 ,

        'max-group-size': 2

    }

  ]

}
```

Response Definition

Response Item	Description	Data type
project-id	Unique Id for projects	int
project	Title of the project	string
description	A description of the project	string
deadline	Date the project is due	date
max-group-size	Max number of people in the group	int

POST	/projects/createProject

Create a new project. Returns true if the project was created successfully or else false.

Request Body

Request Item	Description	Data type
project	Title of the project	string

description	A description of the project	string
deadline	Date the project is due	date
max-group-size	Max number of people in the group	int

Sample Request

```
curl -d "project=JabbaTheHut&description=yaba dab
do&dealdine=2-23-2022&max-group-size=3" -X POST
"https://api.classprojects.edu/projects/createProjec"t
```

Sample Response

```
{
   'project-created': true
}
```

Response Definition

Response Item	Description	Data type
project-created	Returns true if project was successfully created	bool

3. GROUPS

Contains information about different groups formed by the students for various projects. Each group has a *name* and is organized for a particular *project.*Users can join more than one group, as long as the groups are for different projects. Projects remain available for group creating and sign-up until the deadline has passed.

GET	/groups/listGroups/{project}

Returns a list of the groups defined for a project.

Path Parameters

Parameters	Required/Optional	Description	Type
{project}	Required	Name of the project which is present in the projects collection	String

Sample Request

```
curl -I -X GET "https://api.classprojects.edu//groups/listGroups/Attack-the-empire"
```

Sample Response

```json
{
 'Projects':[
   {
     'group-id' : 1,
     'project': 'Attack the empire' ,
     'group': 'Ewoks Unite',
     'group-members':['jaba the hut','Gammoreans']
   },
   {
     'group-id' : 2,
     'project': 'kill han solo',
     'group': 'Bounty Hunters',
     'group-members':['Skywalker','Kylo ren']
   }
 ]
}
```

Response Definition

Response Item	Description	Data type
group-id	Unique ID for group	int

project	Title of the project	string
group	Title of the group	string
group-members	List of usernames in the group	List

POST	/groups/createGroup

Lets students create a new group for a project. It's made sure that each student is only in one group for a particular project.

Request Body

Parameters	Required/ Optional	Description	Type
project	Required	Title of the project	String
group	Required	Title of the group . It should be unique.	String
group-members	Required	List of usernames of users you would like to add to group	List

Sample Request

curl -d "project=Destroy Death Start & group= Bounty Hunters & group-members= ['han solo','princess leah']" -X POST https://api.classprojects.edu/groups/createGroup"

Sample Response

```
{
 'group-created' : true

}
```

Response Definition

Response Item	Description	Data type
group-created	If It's made sure that each student is only in one group for a particular project value is true or else false	Boolean

GET	/groups/invitetoGroup

Allows you to invite a student to join your group. Sends a notification to the student that an invite has been sent to them.

Query String Parameters

Parameters	Required/Optional	Description	Type
username	Required	Username of the student you want to invite	String
group	Required	Title of the group	String

Sample Request

```
curl -I -X GET
"https://api.classprojects.edu/groups/invitetoGroup?username=skywalker&group=anti-
darthvader"
```

Sample Response

```
{
    'invited-to-group': true

}
```

<u>Response Definition</u>

Response Item	Description	Data type
invited-to-group	If the group has room for another member and you are not currently in another group for the same project, returns true	Boolean

PUT	/groups/joinGroup

Updates the group list with a new member

Query String Parameters

Parameters	Required/Optional	Description	Type
username	Required	Username of the student	String

		you want to invite	
group	Required	Title of the group	String

Sample Request

```
Curl -X PUT -d "username=JabbaTheHut&group=anti-darthvader"  -X POST
https://api.classprojects.edu/groups/joinGroup
```

Sample Response

```
{
    'joined-group' : true
}
```

Response Definition

Response Item	Description	Data type
joined-group	If you have successfully joined the group, returns true	boolean

GET	/groups/listGroupMembers/**{group}**

Returns a list of students in a group defined for a project.

Path Parameters

Parameters	Required/Optional	Description	Type
{group}	Required	Title of group for that project	String

Sample Request

```
curl -I -X GET
"https://api.classprojects.edu/groups/listGroupMembers/anti-darthvaders"
```

Sample Response

```
{

    'group-members':['jaba the hut','Gammoreans']

}
```

Response Definition

Response Item	Description	Data type
group	Title of the group for that project	String
group-members	List of usernames of students in the group	List