# API Design - Job Tracker

CS 497: Capstone Project

Winter 2023

Oregon State University

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| Data Model  | 4  |
|---|----|
| Relationships   | 4  |
| Users   | 5  |
| Skills - shared amongst users                                   | 5  |
| Contacts - shared amongst users                                 | 5  |
| Applications - unique to user                                   | 6  |
| User Routes   | 7  |
| /users GET - Get Users  | 8  |
| /users POST - Create User                                       | 9  |
| /users PUT/PATCH - Edit Users                                   | 11 |
| /users DELETE - Delete Users                                    | 11 |
| /user/username GET - User                                       | 12 |
| /users/username POST  | 13 |
| /users/username PUT/PATCH - Edit User                           | 13 |
| /users/username DELETE - Delete User                            | 14 |
| Skill Routes  | 16 |
| /skills GET - Get All Skills in DB                              | 17 |
| /skills POST  | 18 |
| /skills PUT/PATCH   | 18 |
| /skills DELETE  | 18 |
| /skills/skill_id GET  | 18 |
| /skills/skill_id POST   | 18 |
| /skills/skill_id PUT/PATCH                                      | 18 |
| /skills/skill_id DELETE   | 18 |
| /users/username/skills GET - Get User's Skills                  | 19 |
| /users/username/skills POST - Tie Skill to User                 | 20 |
| /users/username/skills PUT/PATCH                                | 21 |
| /users/username/skills DELETE - Delete all User's Skills        | 21 |
| /users/username/skills/skill_id GET - Get User's Skill          | 22 |
| /users/username/skills/skill_id POST                            | 23 |
| /users/username/skills/skill_id PUT/PATCH - Update User's Skill | 24 |
| /users/username/skills/skill_id DELETE - Delete Skill from User | 25 |
| /users/username/applications/app_id/skills GET                  | 26 |
| /users/username/applications/app_id/skills POST                 | 26 |
| /users/username/applications/app_id/skills PUT/PATCH            | 26 |
| /users/username/applications/app_id/skills DELETE               | 26 |
| /users/username/applications/app_id/skills/skill_id GET         | 26 |

| /users/username/applications/app_id/skills/skill_id POST      | 27 |
|---|----|
| /users/username/applications/app_id/skills/skill_id PUT/PATCH | 28 |
| /users/username/applications/app_id/skills/skill_id DELETE    | 29 |
| Contact Routes  | 30 |
| Create a Contact  | 31 |
| Delete Contact  | 32 |
| Edit Contact  | 33 |
| Get Contact   | 33 |
| Application Routes  | 35 |
| Create Application  | 35 |
| Delete Application  | 36 |
| Edit Application  | 36 |
| Get Application   | 37 |
| Get Applications  | 39 |
|   |    |

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|---|----|
| • |    |
|   |    |

Index Route where app is deployed:

### https://

This route is provides a button the user can click to login, logout, or create a new user

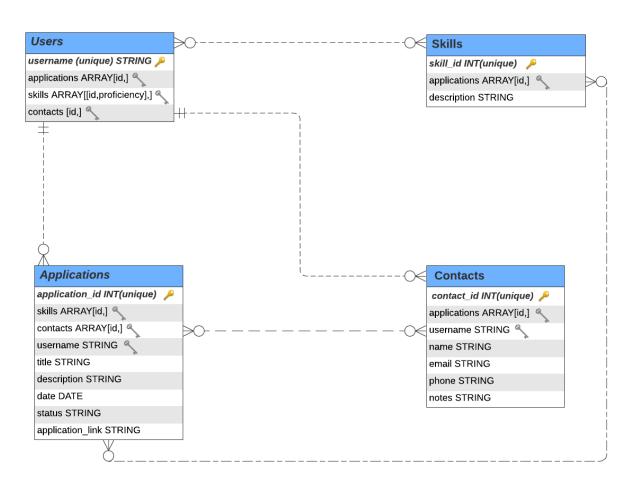
### Data Model

The app stores three kinds of entities in Datastore: Users, Applications, Skills, and Contacts.

### Relationships

### **Entity-Relationship Diagram**

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### Users

| Property     | Data   | Req | Constraints  | Notes   |
|--------------|--------|-----|--|---|
|              | Туре   |     |  |   |
| username     | String | Υ   | Must be unique   | Obtained through Auth0  |
| applications | Array  | Υ   | List of IDs  | Blank when user first created   |
| skills       | Array  | Y   | List of objects {skill_id: XXX, proficiency: XXX, description: XXX}  | Blank when user first created   |
| Contacts     | Array  | Υ   | List of IDs  | Blank when user first created   |
| Id           | String | Y   | Issued by Auth0 through the OAuth2.0 process and must match the JWT used to create the user. Must be unique. | This number will match the "sub" category in the JWT for protected requests. This number is also used as the unique ID for user entities. |

### Skills - shared amongst users

| Property    | Data<br>Type | Req? | Constraints    | Notes  |
|-------------|--------------|------|----------------|--|
| id          | int          | Υ    | Must be unique | Generated by API when skill first created    |
| description | string       | Υ    |                | Name of skill: e.g. Javascript, Python, etc. |

### Contacts - unique to user

| Property     | Data<br>Type | Req? | Constraints                    | Notes                                       |
|--------------|--------------|------|--------------------------------|---|
| id           | int          | Υ    | Must be unique                 | Generated by API when contact first created |
| user_id      | String       | Υ    | Must be unique                 | Taken from Auth Bearer Token                |
| applications | array        | Υ    | List of IDs contact is tied to |   |
| first_name   | string       | Υ    | Max 30 characters              |   |
| last_name    | string       | Υ    | Max 30 characters              |   |
| email        | string       | N    | Max 30 characters              |   |
| phone        | string       | N    | Max 30 characters              |   |
| notes        | string       | N    | Max 500 characters             |   |

### Applications - unique to user

| Approacions and actorise |              |      |                                    |   |
|--------------------------|--------------|------|------------------------------------|---|
| Property                 | Data<br>Type | Req? | Constraints                        | Notes   |
| id                       | int          | Υ    | Must be unique                     | Generated by API when application first created |
| skills                   | array        | Υ    | List of IDs application is tied to | Can be blank array                              |
| contacts                 | array        | Υ    | List of IDs application is tied to | Can be blank array                              |
| title                    | string       | Υ    |                                    |   |
| description              | string       | N    |                                    | Long form description of job if desired         |

| status            | string | Y | Choice of:  Not started Application In Progress Applied - Awaiting Reply Applied - Phone Interview Completed Applied - On Site Interview Completed No Response Application Rejected Offered Offer Accepted |                              |
|-------------------|--------|---|--|------------------------------|
| user_id           | string | Υ | Must be unique   | Taken from Auth Bearer Token |
| link              | string | N |  | Web address                  |
| last_modifie<br>d | string | Υ |  |                              |
| posting_date      | string | Υ |  |                              |

### **User Routes**

### Needed Routes:

- /users
  - o POST
- /users/username
  - o **DELETE**
  - o GET

### Routes Not Needed:

- /users
  - $\circ$  GET
  - o DELETE
  - o PUT/PATCH
- /users/username
  - o POST
  - o PUT/PATCH

### /users GET - Get Users

Method not allowed. No need to see all users.

### /users POST - Create User

### Request

#### **Path Parameters**

None

### Request Body

- Required? N/A
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? Bearer Token, JWT from Auth0
- Header: "Authorization: Bearer < Token>"

### Request JSON Attributes

| Name | Description   | Required? |
|------|---|-----------|
| N/A  | All user information taken from JWT, so not body passed | N/A       |

### Request Body Example

N/A

### Response

### Response Body Format

- Success JSON
- Failure JSON

### **Response Body Notes**

•

### **Response Statuses**

| Outcome | Status Code          | Notes  |
|---------|----------------------|--|
| Success | 201 - Created        |  |
| Fail    | 400 - Bad Request    | User already exists                          |
| Fail    | 401 - Unauthorized   | JWT is missing or invalid                    |
| Fail    | 406 - Not Acceptable | Accept header is not application/json or */* |

### Response Examples

#### Success

```
201 - Created
{
    "username": "philpeiffer",
    "id": 1234567890,
    "created": "01/25/2023",
    "skills": [],
    "contacts": [],
    "applications": [],
}
```

```
400 - Bad Request
```

```
{
    "400": "User already exists"
}

401 - Unauthorized
{
    "401": "JWT missing or invalid"
}

406 - Not Acceptable
{
    "406": "Accept header must be application/json or */*"
}
```

### /users PUT/PATCH - Edit Users

Method not allowed. No need to edit all users.

### /users DELETE - Delete Users

Method not allowed. No need to delete all users.

### /user/:user\_id GET - User

### Request

### **Path Parameters**

• user\_id - must match JWT provided

### Request Body

- Required? None
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: "Authorization: Bearer < JWT>"

### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

### Request Body Example

N/A

### Response

### Response Body Format

- Success JSON
- Failure JSON

### Response Body Notes

•

#### Response Statuses

| Outcome | Status Code        | Notes                      |  |  |  |
|---------|--------------------|----------------------------|--|--|--|
| Success | 200 - OK           |                            |  |  |  |
| Fail    | 404 - Not Found    | User does not exist        |  |  |  |
| Fail    | 401 - Unauthorized | JWT is missing or invalid  |  |  |  |
| Fail    | 403 - Forbidden    | JWT doesn't match username |  |  |  |

### Response Examples

#### Success

#### Failure

```
404 - Not Found

{
    "400": "User does not exist"
}

401 - Unauthorized
{
    "401": "JWT missing or invalid"
}

403 - Forbidden
{
    "403": "The owner of the JWT does not match the user resource requested"
}
```

### /users/:user\_id POST

This method is not allowed. Creating a user is handled through /users POST

### /users/:user\_id PUT/PATCH - Edit User

This method is not allowed. Updating of the user will be handled through relationship routes instead of trying to update a user directly.

### /users/:user\_id DELETE - Delete User

### Request

### **Path Parameters**

• user\_id - must match JWT username sent with request

### Request Body

- Required? No
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: "Authorization: Bearer < Token>"

### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |
|      |             |           |
|      |             |           |
|      |             |           |

### Request Body Example

N/A

### <u>Response</u>

### Response Body Format

- Success None
- Failure JSON

### Response Body Notes

•

#### Response Statuses

| Outcome | Status Code        | Notes                      |
|---------|--------------------|----------------------------|
| Success | 204 - No Content   |                            |
| Fail    | 404 - Not Found    | User does not exist        |
| Fail    | 401 - Unauthorized | JWT is missing or invalid  |
| Fail    | 403 - Forbidden    | JWT doesn't match username |

### Response Examples

Success

```
204 - No Content
```

```
404 - Not Found
{
    "400": "User does not exist"
}
```

```
401 - Unauthorized
{
        "401": "JWT missing or invalid"
}

403 - Forbidden
{
        "403": "The owner of the JWT does not match the user resource requested"
}
```

### **Skill Routes**

### **Needed Routes:**

- /skills ← this is referring to all skills in database (not user specific), so POST is not allowed. Refer to routes below for creating a new skill tied to user. When a user creates a new skill, it will add it to the skills table
  - o GET
- /skills/skill id
  - None
- /users/username/skills
  - GET
  - POST ← posts to the shared skills table AND user skills array
- /users/username/skills/skill\_id
  - GET
  - PUT/PATCH
  - o DELETE
- /applications/app id/skills
  - o None
- /applications/app\_id/skills/skill\_id
  - o POST, DELETE

#### Routes Not Needed:

- /skills
  - o **DELETE**
  - o PUT/PATCH
  - o POST
- /skills/skill id
  - GET
  - POST
  - o PUT/PATCH
  - o DELETE
- /users/username/skills
  - o DELETE
  - o PUT/PATCH
- /users/username/skills/skill\_id
  - o POST
- /applications/app id/skills
  - GET, PUT/PATCH, POST, DELETE
- /applications/app\_id/skills/skill\_id
  - o GET, PUT/PATCH

### /skills GET - Get All Skills in DB

### Request

#### **Path Parameters**

None

### Request Body

- Required? N/A
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: "Bearer <Token>"

### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

### Request Body Example

N/A

### Response

### Response Body Format

- Success JSON
- Failure JSON

### **Response Body Notes**

•

#### Response Statuses

| Outcome | Status Code          | Notes  |
|---------|----------------------|--|
| Success | 200 OK               |  |
| Fail    | 401 - Unauthorized   | JWT is missing or invalid                    |
| Fail    | 406 - Not Acceptable | Accept header is not application/json or */* |
|         |                      |  |

### Response Examples

#### Success

```
401 - Unauthorized
{
     "401": "JWT missing or invalid"
}

406 - Not Acceptable
{
     "406": "Accept header must be application/json or */*"
}
```

### /skills POST - Create New Skill

### Request

### **Path Parameters**

None

### Request Body

- Required? Yes
- Format? JSON

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer < Token>

### Request JSON Attributes

| Name        | Description            | Required? |
|-------------|------------------------|-----------|
| description | String. Name of skill. | Yes       |

### Request Body Example

```
{
    "description": "MS Office",
}
```

### Response

### Response Body Format

- Success JSON
- Failure JSON

### Response Body Notes

•

### **Response Statuses**

| Outcome | Status Code          | Notes  |
|---------|----------------------|--|
| Success | 201 Created          | New skill is created in shared skills table - also returned if |
|         |                      | skill is existing in database                                  |
| Fail    | 400 - Bad Request    | Request body contains missing or extra information than        |
|         |                      | what's required.   |
| Fail    | 401 - Unauthorized   | JWT is missing or invalid                                      |
| Fail    | 403 - Forbidden      | JWT doesn't match user in user database                        |
| Fail    | 406 - Not Acceptable | Accept header is not application/json or */*                   |
| Fail    | 415 - Unsupported    | Request body is not JSON                                       |
|         | Media                |  |

### **Response Examples**

#### Success

```
201 Created
{
    "id": 12345,
```

```
"description": "Python",
}
```

```
400 - Bad Request
{
        "400": "Bad request body. Contains unrecognized keys."
}

401 - Unauthorized
{
        "401": "JWT missing or invalid"
}

403 - Forbidden
{
        "403": "JWT doesn't belong to recognized user"
}

406 - Not Acceptable
{
        "406": "Accept header must be application/json or */*"
}

415 - Unsupported Media
{
        "415": "Request body must be JSON"
}
```

### /skills PUT/PATCH

Method not allowed.

/skills DELETE

Method not allowed.

/skills/:skill\_id GET

Method not allowed.

/skills/:skill\_id POST

Method not allowed.

/skills/:skill\_id PUT/PATCH

Method not allowed.

/skills/:skill\_id DELETE

Method not allowed.

### /users/:user\_id/skills GET - Get User's Skills

### Request

### **Path Parameters**

user\_id

### Request Body

- Required? None
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer <Token>

### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

### Request Body Example

N/A

### Response

### Response Body Format

- Success –
- Failure –

### Response Body Notes

•

### **Response Statuses**

| Outcome | Status Code          | Notes  |
|---------|----------------------|--|
| Success | 200 OK               |  |
| Fail    | 401 - Unauthorized   | JWT is missing or invalid                    |
| Fail    | 403 - Forbidden      | JWT doesn't match user                       |
| Fail    | 404 - Not Found      | User doesn't exist                           |
| Fail    | 406 - Not Acceptable | Accept header is not application/json or */* |

### Response Examples

### Success

```
401 - Unauthorized
{
        "401": "JWT missing or invalid"
}

403 - Forbidden
{
        "403": "JWT and user_id don't match"
}

404 - Not Found
{
        "404": "User does not exist"
}

406 - Not Acceptable
{
        "406": "Accept header must be application/json or */*"
}
```

# /users/:user\_id/skills POST

Method not allowed

## /users/:user\_id/skills PUT/PATCH

Method not allowed.

/users/:user\_id/skills DELETE - Delete all User's Skills Method not allowed.

### /users/:user\_id/skills/:skill\_id GET - Get User's Skill

### Request

### **Path Parameters**

User\_id, skill\_id

### Request Body

- Required? N/A
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer <Token>

#### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

### Request Body Example

N/A

### Response

### Response Body Format

- Success JSON
- Failure JSON

### **Response Body Notes**

\_

### **Response Statuses**

| Outcome | Status Code          | Notes  |
|---------|----------------------|--|
| Success | 200 OK               |  |
| Fail    | 401 - Unauthorized   | JWT is missing or invalid                        |
| Fail    | 403 - Forbidden      | JWT doesn't match user or skill not tied to user |
| Fail    | 404 - Not Found      | User doesn't exist or skill doesn't exist        |
| Fail    | 406 - Not Acceptable | Accept header is not application/json or */*     |

### Response Examples

### Success

```
200 OK
{
    "id": 12345,
    "description": "Python",
    "proficiency": 4,
    "applications": [
    {"id": 123, "title": "Google SD 1", "self": "url.com/applications/123"},
    {"id": 123, "title": "Amazon SD 1", "self": "url.com/applications/123"},
    ]
}
```

```
401 - Unauthorized
{
        "401": "JWT missing or invalid"
}

403 - Forbidden
{
        "403": "JWT and user_id don't match"
}

404 - Not Found
{
        "404": "User does not exist"
}

406 - Not Acceptable
{
        "406": "Accept header must be application/json or */*"
}
```

### /users/:user\_id/skills/:skill\_id POST

This method is not allowed.

# /users/:user\_id/skills/:skill\_id PUT - Tie Existing Skill to User OR Update Skill Proficiency

### Request

#### **Path Parameters**

• User\_id, skill\_id

### Request Body

- Required? Yes
- Format? JSON

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer <Token>

### Request JSON Attributes

| Name        | Description   | Required? |
|-------------|---|-----------|
| proficiency | Number between 1 and 5 (5 being highest proficiency). Defaults to Null. | No        |

### Request Body Example

### Response

### Response Body Format

- Success None
- Failure JSON

### Response Body Notes

• On success, no response body is returned, just status code.

### **Response Statuses**

| Outcome | Status Code        | Notes   |
|---------|--------------------|---|
| Success | 204 No Content     | Existing skill is tied to user                          |
| Fail    | 400 - Bad Request  | Request body contains missing or extra information than |
|         |                    | what's required OR skill is already tied to user.       |
| Fail    | 401 - Unauthorized | JWT is missing or invalid                               |
| Fail    | 403 - Forbidden    | JWT doesn't match user or skill not tied to user        |
| Fail    | 404 - Not Found    | User doesn't exist or skill doesn't exist               |
| Fail    | 415 - Unsupported  | Request body is not JSON                                |
|         | Media              |   |

### Response Examples

Success

### 204 No Content

```
400 - Bad Request
{
        "400": "Bad request body. Contains unrecognized keys."
}

401 - Unauthorized
{
        "401": "JWT missing or invalid"
}

403 - Forbidden
{
        "403": "JWT and user_id don't match"
}

404 - Not Found
{
        "404": "User does not exist"
}

415 - Unsupported Media
{
        "415": "Request body must be JSON"
}
```

# /users/:user\_id/skills/:skill\_id PATCH

method not allowed

### /users/:user\_id/skills/:skill\_id DELETE - Delete Skill from User

### Request

### **Path Parameters**

User\_id, skill\_Id

### Request Body

- Required? N/A
- Format? N/A

### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer <Token>

### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

### Request Body Example

N/A

### Response

### Response Body Format

- Success None
- Failure JSON

### Response Body Notes

•

#### Response Statuses

| Outcome | Status Code        | Notes  |  |  |
|---------|--------------------|--|--|--|
| Success | 204 - No Content   |  |  |  |
| Fail    | 401 - Unauthorized | JWT is missing or invalid                        |  |  |
| Fail    | 403 - Forbidden    | JWT doesn't match user or skill not tied to user |  |  |
| Fail    | 404 - Not Found    | User doesn't exist or skill doesn't exist        |  |  |

### Response Examples

Success

```
204 No Content
```

```
401 - Unauthorized
{
     "401": "JWT missing or invalid"
}

403 - Forbidden
{
     "403": "JWT and user_id don't match"
```

```
}

404 - Not Found
{
    "404": "User does not exist"
}
```

/users/:user\_id/applications/:app\_id/skills GET Method not allowed.

/users/:user\_id/applications/:app\_id/skills POST Method not allowed.

/users/:user\_id/applications/:app\_id/skills PUT/PATCH Method not allowed.

/users/:user\_id/applications/:app\_id/skills DELETE Method not allowed.

/users/:user\_id/applications/:app\_id/skills/:skill\_id GET Method not allowed.

/users/:user\_id/applications/:app\_id/skills/:skill\_id POST Method not allowed.

# /users/:user\_id/applications/:app\_id/skills/:skill\_id PUT - Tie a skill to a user's application

### Request

### **Path Parameters**

• User\_id, app\_id, skill\_id

### Request Body

- Required? N/A
- Format? N/A

#### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer <Token>

### **Request Notes**

• Skill ID and App ID must exist and app ID must be tied to the user. This route does not create skills and apps on the fly, and it does not tie apps to users on the fly. It does tie skills to users on the fly.

### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

### Request Body Example

N/A

### <u>Response</u>

### Response Body Format

- Success JSON
- Failure JSON

#### Response Body Notes

• If the app is already tied to the skill, you'll still get a 204 status (not a 404)

### **Response Statuses**

| Outcome | Status Code        | Notes  |
|---------|--------------------|--|
| Success | 204 - No Content   |  |
| Fail    | 401 - Unauthorized | JWT is missing or invalid                      |
| Fail    | 403 - Forbidden    | JWT doesn't match user or app not tied to user |
| Fail    | 404 - Not Found    | User, skill, or app don't exist                |

### Response Examples

Success

| 000000         |  |
|----------------|--|
| 204 No Content |  |

| I 401 - Unauthorized |     |
|----------------------|-----|
| 1 401 - Unauthorized | · · |
| TOT - OHAUCHOLIZED   |     |

```
{
    "401": "JWT missing or invalid"
}

403 - Forbidden
{
    "403": "JWT and user_id don't match"
}

404 - Not Found
{
    "404": "User does not exist"
}
```

/users/:user\_id/applications/:app\_id/skills/:skill\_id PATCH Method not allowed.

# /users/:user\_id/applications/:app\_id/skills/:skill\_id DELETE - Delete skill from a user's application

### Request

### **Path Parameters**

• User\_id, app\_id, skill\_id

#### Request Body

- Required? N/A
- Format? N/A

#### **Request Authorization**

- Required? Yes
- Type? JWT
- Header: Authorization: Bearer <Token>

#### **Request Notes**

• Skill ID and App ID must exist and be tied to the user already.

#### Request JSON Attributes

| Name | Description | Required? |
|------|-------------|-----------|
| N/A  | N/A         | N/A       |

#### Request Body Example

N/A

# <u>Response</u>

#### Response Body Format

- Success JSON
- Failure JSON

#### Response Body Notes

• If the app does not contain the skill already, you'll still get a 204 status (not a 404). We quietly allow this error.

#### **Response Statuses**

| Outcome | Status Code        | Notes   |
|---------|--------------------|---|
| Success | 204 - No Content   |   |
| Fail    | 401 - Unauthorized | JWT is missing or invalid                                   |
| Fail    | 403 - Forbidden    | JWT doesn't match user or skill not tied to user or app not |
|         |                    | tied to user  |
| Fail    | 404 - Not Found    | User, skill, or app don't exist                             |

### Response Examples

Success

| 204 No Content |  |  |
|----------------|--|--|
|                |  |  |

#### Failure

| <u>401 - Unauthorized</u> |
|---------------------------|
|---------------------------|

```
{
    "401": "JWT missing or invalid"
}

403 - Forbidden
{
    "403": "JWT and user_id don't match"
}

404 - Not Found
{
    "404": "User does not exist"
}
```

# **Contact Routes**

### Needed Routes:

- /users/:user\_id/contacts
  - o POST
  - o GET
- /users/:user\_id/contacts/:contact\_id
  - o GET
  - o PUT
  - o PATCH
  - o DELETE

### Routes Not Allowed:

- /users/:user\_id/contacts
  - o **DELETE**
  - o PUT
  - o PATCH
- /users/:user\_id/contacts/:contact\_id
  - o POST

### Create a Contact

Allows to create a new contact.

### Request

#### **Path Parameters**

POST users/:user\_id/contacts

#### Request Body

• Required

Format: JSON

#### **Request Authorization**

Required

#### Request JSON Attributes

| Name              | Description                         | Required? |
|-------------------|-------------------------------------|-----------|
| first_name        | Contact's first name                | yes       |
| last_name         | Contact's last name                 | yes       |
| email             | Contact's email                     | no        |
| phone             | Contact's phone number              | no        |
| notes             | Info about the contact              | no        |
| contact_at_app_id | Applications related to the contact | no        |

### Request Body Example

```
{
    "last_name": "Smith",
    "first_name": "Rob",
    "email": "Smith@Smith.com",
    "phone": "888-8888-888",
    "notes": "Added by user 1",
    "contact_at_app_id": []
}
```

### **Response**

### Response Body Format

Success: JSONFailure: JSON

#### Response Body Notes

• Success: JSON with ID of the posted object, the ID is used when testing the app with Postman, otherwise not required.

### **Response Statuses**

| Outcome    | Status Code | Notes                               |
|------------|-------------|-------------------------------------|
| Success    | 201         |                                     |
| Failure #1 | 400         | The user sends invalid object keys. |

| Failure #2 | 415 | The user sends unsupported Content-Type. |
|------------|-----|--|
| Failure #3 | 400 | Problem with JSON format in body.        |
| Failure #4 | 401 | JWT is Invalid.                          |

### Response Examples

#### Success

```
201 CREATED
"5769252946575360"
```

#### Failure #1

```
400 Bad request
{
    "Error": "The user sends invalid object keys."
}
```

#### Failure #2

```
415 Unsupported Media Type

{
    "Error": "The user sends unsupported Content-Type."
}
```

### Failure #3

```
400 Bad request
{
    "Error": "Problem with JSON format in body."
}
```

```
401 Unauthorized
{
  "401": "JWT is Invalid!"
}
```

### Delete a Contact

Allows to delete a contact.

### Request

#### **Path Parameters**

DELETE users/:user\_id/contacts/:contact\_id

#### Request Body

None

#### **Request Authorization**

• Required

#### Request JSON Attributes

None

### Request Body Example

None

### Response

### Response Body Format

• Success: None

• Failure: JSON, error message

### **Response Body Notes**

None

#### **Response Statuses**

| Outcome    | Status Code | Notes                           |
|------------|-------------|---------------------------------|
| Success    | 204         |                                 |
| Failure #1 | 404         | No contact exists with this id. |
| Failure #2 | 401         | JWT is Invalid.                 |

### Response Examples

Success

#### 204 No Content

#### Failure #1

```
404 Not Found
{
    "Error": "No contact exists with this id."
}
```

```
401 Unauthorized
{
  "401": "JWT is Invalid!"
}
```

# Edit a Contact with PUT

Allows to replace all old contact's properties with new contact's properties.

### Request

#### **Path Parameters**

PUT users/:user\_id/contacts/:contact\_id

#### Request Body

Required

Format: JSON

#### **Request Authorization**

Required

#### Request JSON Attributes

| Name              | Description                         | Required? |
|-------------------|-------------------------------------|-----------|
| first_name        | Contact's first name                | yes       |
| last_name         | Contact's last name                 | yes       |
| email             | Contact's email                     | no        |
| phone             | Contact's phone number              | no        |
| notes             | Info about the contact              | no        |
| contact_at_app_id | Applications related to the contact | no        |

### Request Body Example

```
{
    "last_name": "Smith",
    "first_name": "Rob",
    "email": "Smith@Smith.com",
    "phone": "888-8888-888",
    "notes": "Put request by user 1",
    "contact_at_app_id": []
}
```

### Response

### Response Body Format

• Success: None

• Failure: JSON, error message

#### Response Body Notes

None

### **Response Statuses**

| Outcome    | Status Code | Notes                               |
|------------|-------------|-------------------------------------|
| Success    | 200         |                                     |
| Failure #1 | 403         | User does not own resource.         |
| Failure #2 | 404         | No contact exists with this id.     |
| Failure #3 | 400         | The user sends invalid object keys. |

| Failure #4 | 415 | The user sends unsupported Content-Type. |
|------------|-----|--|
| Failure #5 | 401 | JWT is Invalid.                          |

### **Response Examples**

Success

200 OK

#### Failure #1

```
403 Forbidden
{
"403": "User does not own resource"
}
```

#### Failure #2

```
404 Not Found
{
    "Error": "No contact exists with this id."
}
```

### Failure #3

```
400 Bad Request
{
    "Error": "The user sends invalid object keys."
}
```

#### Failure #4

```
415 Unsupported Media Type

{
    "Error": "The user sends unsupported Content-Type."
}
```

```
401 Unauthorized
{
    "401": "JWT is Invalid!"
}
```

### Edit a Contact with PATCH

Allows to update contact's properties.

### Request

#### **Path Parameters**

• PATCH users/:user\_id/contacts/:contact\_id

#### Request Body

Required

Format: JSON

#### **Request Authorization**

Required

#### Request JSON Attributes

| Name              | Description                         | Required? |
|-------------------|-------------------------------------|-----------|
| first_name        | Contact's first name                | yes       |
| last_name         | Contact's last name                 | yes       |
| email             | Contact's email                     | no        |
| phone             | Contact's phone number              | no        |
| notes             | Info about the contact              | no        |
| contact_at_app_id | Applications related to the contact | no        |

### Request Body Example

```
{
    "last_name": "patch last_name",
    "first_name": "patch first_name"
}
```

### Response

### Response Body Format

Success: None

• Failure: JSON, error message

### **Response Body Notes**

None

### **Response Statuses**

| Outcome    | Status Code | Notes                                    |
|------------|-------------|--|
| Success    | 200         |  |
| Failure #1 | 403         | User does not own resource.              |
| Failure #2 | 400         | Required keys must have value.           |
| Failure #3 | 404         | No contact exists with this id.          |
| Failure #4 | 415         | The user sends unsupported Content-Type. |
| Failure #5 | 401         | JWT is Invalid.                          |

### Response Examples

Success

```
200 OK
```

### Failure #1

```
403 Forbidden
{
"403": "User does not own resource"
}
```

#### Failure #2

```
400 Bad Request
{
    "Error": "Required keys must have value."
}
```

#### Failure #3

```
404 Not Found
{
    "Error": "No contact exists with this id."
}
```

### Failure #4

```
415 Unsupported Media Type

{
    "Error": "The user sends unsupported Content-Type."
}
```

```
401 Unauthorized
{
  "401": "JWT is Invalid!"
}
```

### Get a Contact

Allows to get an existing contact.

### Request

#### Path Parameters

• GET users/:user\_id/contacts/:contact\_id

#### Request Body

None

#### **Request Authorization**

Required

#### Request JSON Attributes

None

### Request Body Example

• None

### Response

### Response Body Format

Success: JSON

• Failure: JSON, error message

### **Response Body Notes**

• None

#### **Response Statuses**

| Outcome    | Status Code | Notes                                     |
|------------|-------------|---|
| Success    | 200         |   |
| Failure #1 | 403         | User ID in JWT does not match URL.        |
| Failure #2 | 403         | User does not own resource.               |
| Failure #3 | 406         | The user sends unsupported Accept header. |
| Failure #4 | 404         | No contact exists with this id.           |
| Failure #5 | 401         | JWT is Invalid.                           |

#### Response Examples

#### Success

```
200 OK

{
    "notes": "Added by user 1",
    "last_name": "Smith",
    "user": "64076c422bdf99d93b8e74f2",
    "phone": "888-8888-888",
    "email": "Smith@Smith.com",
    "first_name": "Rob",
    "contact_at_app_id": [],
```

```
"id": "5707748519968768"
}
```

#### Failure #1

```
403 Forbidden
{
    "Error": "User ID in JWT does not match URL"
}
```

### Failure #2

```
403 Forbidden
{
  "403": "User does not own resource"
}
```

#### Failure #3

```
406 Not Acceptable
{
    "Error": "The user sends unsupported Accept header."
}
```

#### Failure #4

```
404 Not Found
{
    "Error": "No contact exists with this id."
}
```

```
401 Unauthorized
{
   "401": "JWT is Invalid!"
}
```

### **Get all Contacts**

Allows to get all contacts that belong to the user.

### Request

#### **Path Parameters**

• GET users/:user\_id/contacts/

#### Request Body

None

#### **Request Authorization**

Required

#### Request JSON Attributes

None

### Request Body Example

• None

### Response

### Response Body Format

Success: JSON

• Failure: JSON, error message

### **Response Body Notes**

None

#### **Response Statuses**

| Outcome    | Status Code | Notes                                     |
|------------|-------------|---|
| Success    | 200         |   |
| Failure #1 | 403         | User ID in JWT does not match URL.        |
| Failure #2 | 406         | The user sends unsupported Accept header. |
| Failure #3 | 401         | JWT is Invalid.                           |

### Response Examples

#### Success

```
200 OK
{
    "firstName": "Rob L.",
    "phone": "111-2222-333",
    "notes": "Contact at Amazon",
    "email": "rob@rob.com",
    "lastName": "Smith",
    "id": "5764518391054336"
}
```

```
403 Forbidden
{
    "Error": "User ID in JWT does not match URL"
}
```

### Failure #2

```
406 Not Acceptable
{
    "Error": "The user sends unsupported Accept header."
}
```

```
401 Unauthorized
{
  "401": "JWT is Invalid!"
}
```

# **Application Routes**

# **Create an application**

Allows user to create a new application

POST /user/:user\_id/applications

### Request

#### **Path Parameters**

| Name    | Description                           |
|---------|---------------------------------------|
| user_id | Unique user id that owns the resource |

### **Request Headers**

• Header: Authorization: "Bearer <Token>"

### **Request Body**

• Required

### **Request Body Format**

JSON

#### **Request Authorization**

Required: YesType: JWT

### Request JSON Attributes

| Name             | Description  | Required? |
|------------------|--|-----------|
| user_id          | Name of the user. Only a-z, A-Z and spaces are allowed as input. 1-50 character length | Yes       |
| skills           | Skills associated with the application.  | No        |
| contacts         | Contacts associated with the application   | No        |
| title            | A title for the application  | Yes       |
| description      | A description of what the application entails  | Yes       |
| posting_da<br>te | The application's posting date   | No        |
| status           | The user's action status related to the application                                    | Yes       |
| link             | The external link to the application   | No        |

### Request Body Example

```
{
   "username": "Jsmith",
   "skills": [],
   "contacts": [],
```

```
"title": "Netflix Database Administrator",
   "description": "Senior level database position...",
   "posting_date": "1/25/23",
   "status": "Applied",
   "link": "https://www.glassdoor.com/Job/software-developer-jobs-ABCD_AO9,1.htm"
}
```

### Response

#### Response Body Format

JSON

#### Response Body Notes

- Datastore will automatically generate an ID and store it with the entity being created.
- The response will generate a "self" attribute that links to the specific url where the individual application resource can be accessed.

#### **Response Statuses**

| Outcome | Status Code     | Notes  |
|---------|-----------------|--|
| Success | 201 Created     |  |
| Failure | 400 Bad Request | If any required attributes are missing the application is not created an a 400 status code is returned |
| Failure | 403 Forbidden   | Bearer Token does not match resource owner   |

#### Response Examples

#### Success

```
Status: 201 Created

{
   "id": 123,
   "username": "Jsmith",
   "skills": [],
   "contacts": [],
   "title": "Google Junior Developer",
   "description": "Entry level developer position...",
   "posting_date": "1/25/23",
   "last_modified": "1/25/23",
   "status": "Applied",
   "link": "https://www.glassdoor.com/Job/software-developer-jobs-ABCD_AO9,1.htm"
   "self": "https://jobseeker.com/applications/123"
}
```

#### Failure

```
Status: 400 Bad Request

{
   "Error": "The request object is missing at least one of the required attributes"
}

Status: 403 Forbidden

{
   "Error": "Bearer Token does not match this owner of this resource"
}
```

# List all applications

List all applications owned by a user

GET /users/:user\_id/applications

### Request

#### **Path Parameters**

| Name    | Description                           |
|---------|---------------------------------------|
| user_id | Unique user id that owns the resource |

### **Request Body**

None

#### **Request Headers**

• Header: Authorization: "Bearer <Token>"

### Response

### Response Body Format

JSON

#### **Request Authorization**

- Required? Yes
- Type? JWT

### **Response Statuses**

| Outcome | Status Code   | Notes                                      |
|---------|---------------|--|
| Success | 200 OK        | application/json supported                 |
| Failure | 403 Forbidden | Bearer Token does not match resource owner |

#### Response Body Notes

• The response will generate a "self" attribute that links to the specific url where the individual application resource can be accessed.

#### Response Examples

#### Success

```
Status: 200 OK
{
   "applications": [
   {
   "id": 123,
```

```
"username": "Jsmith",
"skills": [],
"contacts": [],
"title": "Google Junior Developer",
"description": "Entry level developer position...",
"date": "1/25/23",
"status": "Applied",
"link": "https://www.glassdoor.com/Job/software-developer-jobs-ABCD_AO9,1.htm"
"self": "https://jobseeker.com/applications/123"
},
"id": 456,
"username": "MJohnson",
"skills": [{"id": 1234,
            "description": "Python",
            "self": "users/:user id/skills/:skill id"}],
"contacts": [],
"title": "Netflix Database Administrator",
"description": "Senior level database position...",
"date": "1/25/23",
"status": "Applied",
"link": "https://www.glassdoor.com/Job/software-developer-jobs-BCDE AOO, 1.htm"
"self": "https://jobseeker.com/applications/456"
],
"collection size":2
```

#### Failure

```
Status: 403 Forbidden

{
    "Error": "Bearer Token does not match this owner of this resource"
}
```

# **Get an Application**

Get an existing application by id

GET /user/:user\_id/applications/:application\_id

### Request

#### **Path Parameters**

| Name     | Description                           |
|----------|---------------------------------------|
| username | Unique user id that owns the resource |

| application_id | ID of the application |
|----------------|-----------------------|
|                |                       |

#### Request Body

None

#### **Request Headers**

Header: Authorization: "Bearer <Token>"Accept: application/json(accepted format)

#### Request Authorization

Required: YesType: JWT

### Response

#### Response Body Format

JSON

#### Response Body Notes

• The response will generate a "self" attribute that links to the specific url where the individual application resource can be accessed.

#### **Response Statuses**

| Outcome | Status Code     | Notes  |
|---------|-----------------|--|
| Success | 200 OK          | application/json supported                           |
| Failure | 403 Forbidden   | Bearer Token does not match resource owner           |
| Failure | 404 Not Found   | No application with this application_id exists       |
| Failure | 406 Unsupported | Client requests unsupported MIME type from route via |
|         |                 | header   |

#### Response Examples

#### Success

```
Status: 200 OK

{
    "id": 123,
    "username": "Jsmith",
    "skills": [],
    "contacts": [],
    "title": "Google Junior Developer",
    "description": "Entry level developer position...",
    "date": "1/25/23",
    "status": "Applied",
    "link": "https://www.glassdoor.com/Job/software-developer-jobs-ABCD AO9,1.htm"
    "self": "https://jobseeker.com/applications/123"
    }
}
```

#### Failure

Status: 403 Forbidden

```
{
  "Error": "Bearer Token does not match this owner of this resource"
}
Status: 404 Not Found
{
  "Error": "No application with this application_id exists"
}
Status 406 Unsupported
{
  "Error": "Not Acceptable, only application/json is accepted"
}
```

# **Edit an Application**

Modify one or more allowed attributes of an application by application id

```
PATCH /user/:user_id/applications/:application_id
```

### Request

**Path Parameters** 

| Name           | Description                           |
|----------------|---------------------------------------|
| user_id        | Unique user id that owns the resource |
| application_id | ID of the application                 |

#### **Request Headers**

• Header: Authorization: "Bearer <Token>"

#### Request Body

Required

#### Request Body Format

JSON

#### **Request Authorization**

• Required: Yes

• Type: JWT

### Request JSON Attributes

| Name Description Requir | ed? |
|-------------------------|-----|
|-------------------------|-----|

| title       | A title for the application                         |    |
|-------------|---|----|
| description | A description of what the application entails No    |    |
| date        | The application's posting date                      | No |
| status      | The user's action status related to the application | No |
| link        | The external link to the application                | No |

### Request Body Example

```
{
  "title": "Amazon Data Scientist",
  "status": "Not Applied"
}
```

### **Response**

#### Response Body Format

JSON

### **Response Body Notes**

• The response will generate a "self" attribute that links to the specific url where the individual application resource can be accessed.

#### Response Statuses

| Outcome | Status Code     | Notes   |
|---------|-----------------|---|
| Success | 201 Created     |   |
| Failure | 400 Bad Request | If the request does not include at least one allowed attribute, the application is not modified and a 400 status code is returned |
| Failure | 403 Forbidden   | Editing of protected attributes is forbidden on this route  |
| Failure | 403 Forbidden   | Bearer Token does not match resource owner  |
| Failure | 404 Not Found   | No application with this application id exists  |
| Failure | 415 Unsupported | Client sends unsupported MIIME type to route. (Only application/JSON is supported)  |

#### Response Examples

#### Success

```
Status: 201 Created

{
    "id": 123,
    "username": "Jsmith",
    "skills": [],
    "contacts": [],
    "title": "Amazon Data Scientist",
    "description": "Entry level developer position...",
    "date": "1/25/23",
    "status": "Not Applied",
    "link": "https://www.glassdoor.com/Job/software-developer-jobs-ABCD A09,1.htm"
    "self": "https://jobseeker.com/applications/123"
}
```

#### Failure

```
Status: 400 Bad Request
{
```

```
"Error": "At least one allowed attribute must be specified"
}
Status 403 Forbidden
{
   "Error": "Editing id, username, skills, and contacts is not allowed"
}
Status: 403 Forbidden
{
   "Error": "Bearer Token does not match this owner of this resource"
}
Status 404 Not Found
{
   "Error": "No application with this application id exists"
}
Status 415 Unsupported
{
   "Error": "Server only accepts application/json requests"
}
```

# **Delete an Application**

Delete an existing application by id

```
DELETE /user/:user_id/applications/:application_id
```

### Request

**Path Parameters** 

| Name           | Description                           |
|----------------|---------------------------------------|
| user_id        | Unique user id that owns the resource |
| application_id | ID of the application                 |

### Request Body

None

**Request Headers** 

Header: Authorization: "Bearer <Token>"

#### Request Authorization

Required: YesType: JWT

#### **Request JSON Attributes**

| Name | Description | Required? |
|------|-------------|-----------|
|      |             |           |
|      |             |           |
|      |             |           |
|      |             |           |

#### Request Body Example

### Response

#### Response Body Format

- Success None (no body)
- Failure JSON

#### Response Statuses

| Outcome | Status Code    | Notes  |
|---------|----------------|--|
| Success | 204 No Content |  |
| Failure | 403 Forbidden  | Bearer Token does not match resource owner     |
| Failure | 404 Not Found  | No application with this application_id exists |

#### Response Examples

Success

```
Status: 204 No Content
```

#### Failure

```
Status: 403 Forbidden

{
   "Error": "Bearer Token does not match this owner of this resource"
}

Status: 404 Not Found

{
   "Error": "No application with this application_id exists"
}
```

# **Add Skill to Application**

Add a skill to the skills attribute of an application

POST /user/:user\_id/applications/:application\_id/skills

### Request

### **Path Parameters**

| Name           | Description                           |
|----------------|---------------------------------------|
| user_id        | Unique user id that owns the resource |
| application_id | ID of the application                 |

### **Request Headers**

• Header: Authorization: "Bearer <Token>"

### Request Body

• Required

### Request Body Format

JSON

### **Request Authorization**

Required: YesType: JWT

### Request JSON Attributes

| Name  | Description     | Required? |
|-------|-----------------|-----------|
| skill | Id of the skill | Yes       |

### Request Body Example

```
{
    "skill": "123",
    }
```

### Response

### Response Body Format

JSON

### **Response Body Notes**

### **Response Statuses**

| Outcome | Status Code     | Notes   |
|---------|-----------------|---|
| Success | 204 OK          |   |
| Failure | 400 Bad Request | If the request does not include at least one allowed attribute, the application is not modified and a 400 status code is returned |
| Failure | 403 Forbidden   | Bearer Token does not match resource owner  |
| Failure | 404 Not Found   | No application with this application id exists  |
| Failure | 415 Unsupported | Client sends unsupported MIIME type to route. (Only application/JSON is supported)  |

### Response Examples

Success

Status: 204 OK

```
{
  "id": 123
}
```

#### Failure

```
Status: 400 Bad Request

{
    "Error": "At least one allowed attribute must be specified"
}

Status: 403 Forbidden

{
    "Error": "Bearer Token does not match this owner of this resource"
}

Status 404 Not Found

{
    "Error": "No application with this application id exists"
}

Status 415 Unsupported

{
    "Error": "Server only accepts application/json requests"
}
```

# **Remove Skill from Application**

Delete a skill from the skills attribute of an application

DELETE /user/:user\_id/applications/:application\_id/skills/:skill\_id

### Request

**Path Parameters** 

| Name           | Description                           |
|----------------|---------------------------------------|
| user_id        | Unique user id that owns the resource |
| application_id | ID of the application                 |
| skill_id       | ID of the skill                       |

### **Request Headers**

• Header: Authorization: "Bearer <Token>"

#### Request Body

None

#### **Request Authorization**

Required: YesType: JWT

### **Response**

#### Response Body Format

None

### Response Body Notes

#### **Response Statuses**

| Outcome | Status Code     | Notes   |
|---------|-----------------|---|
| Success | 204 OK          |   |
| Failure | 400 Bad Request | If the request does not include at least one allowed attribute, the application is not modified and a 400 status code is returned |
| Failure | 403 Forbidden   | Bearer Token does not match resource owner  |
| Failure | 404 Not Found   | No application with this application id exists  |

#### Response Examples

Success

Status: 204 OK

Failure

```
Status: 400 Bad Request
{
    "Error": "At least one allowed attribute must be specified"
}
Status: 403 Forbidden
{
    "Error": "Bearer Token does not match this owner of this resource"
}
Status 404 Not Found
{
    "Error": "No application with this application id exists"
}
```

# **Add Contact to Application**

Add a contact to the skills attribute of an application

POST /user/:user\_id/applications/:application\_id/contacts

### Request

#### **Path Parameters**

| Name           | Description                           |
|----------------|---------------------------------------|
| user_id        | Unique user id that owns the resource |
| application_id | ID of the application                 |

### **Request Headers**

• Header: Authorization: "Bearer <Token>"

### Request Body

• Required

### **Request Body Format**

JSON

### **Request Authorization**

Required: YesType: JWT

#### **Request JSON Attributes**

| Name    | Description       | Required? |
|---------|-------------------|-----------|
| contact | Id of the contact | Yes       |

### Request Body Example

```
{
    "contact": "123",
}
```

### Response

### Response Body Format

JSON

### **Response Body Notes**

### Response Statuses

| Outcome | Status Code     | Notes  |
|---------|-----------------|--|
| Success | 204 OK          |  |
| Failure | 400 Bad Request | If the request does not include at least one allowed attribute, the application is not modified and a 400 status |
|         |                 | code is returned   |
| Failure | 403 Forbidden   | Bearer Token does not match resource owner   |
| Failure | 404 Not Found   | No application with this application id exists   |
| Failure | 415 Unsupported | Client sends unsupported MIIME type to route. (Only application/JSON is supported)                               |

### **Response Examples**

Success

```
Status: 204 OK
{
   "id": 123
}
```

#### Failure

```
Status: 400 Bad Request
{
   "Error": "At least one allowed attribute must be specified"
}
Status: 403 Forbidden
{
   "Error": "Bearer Token does not match this owner of this resource"
}
Status 404 Not Found
{
   "Error": "No application with this application id exists"
}
Status 415 Unsupported
{
   "Error": "Server only accepts application/json requests"
}
```

# **Remove Contact from Application**

Delete a contact from the contacts attribute of an application

DELETE /user/:user\_id/applications/:application\_id/contacts/:contact\_id

### Request

**Path Parameters** 

| Name           | Description                           |
|----------------|---------------------------------------|
| user_id        | Unique user id that owns the resource |
| application_id | ID of the application                 |
| contact_id     | ID of the contact                     |

### **Request Headers**

• Header: Authorization: "Bearer <Token>"

#### Request Body

None

#### **Request Authorization**

Required: YesType: JWT

### Response

### Response Body Format

None

### Response Body Notes

#### **Response Statuses**

| - Toop or the contract of the |                 |   |  |  |
|---|-----------------|---|--|--|
| Outcome   | Status Code     | Notes   |  |  |
| Success   | 204 OK          |   |  |  |
| Failure   | 400 Bad Request | If the request does not include at least one allowed attribute, the application is not modified and a 400 status code is returned |  |  |
| Failure   | 403 Forbidden   | Bearer Token does not match resource owner  |  |  |
| Failure   | 404 Not Found   | No application with this application id exists  |  |  |

#### Response Examples

Success

```
Status: 204 OK
```

#### Failure

```
Status: 400 Bad Request

{
    "Error": "At least one allowed attribute must be specified"
}

Status: 403 Forbidden

{
    "Error": "Bearer Token does not match this owner of this resource"
}

Status 404 Not Found

{
    "Error": "No application with this application id exists"
}
```

# **Application Methods Not Allowed**

Methods not allowed on applications routes

| PATCH /user/:user_id/applications |  |
|-----------------------------------|--|
| PUT /users/:user_id/applications  |  |
| DELETE /user_id/applications      |  |

### **Response Statuses**

| Outcome | Status Code     | Notes   |
|---------|-----------------|---|
| Failure | 405 Not Allowed | Only GET and POST requests allowed for all applications |
|         |                 | route   |

### Response Examples

### Failure

```
Status: 405 Not Allowed

{
    "Error": "Only GET and POST requests allowed for all applications route"
}
```