

## Service Endpoints and Purpose

### POST users

- **Purpose:** Creates a new user
- **Parameters:**

```
{  
  "userID": AUTO_INCREMENT,  
  "firstName": "string",  
  "username": "string",  
  "password": "string",  
  "email": "string"  
}
```
- **Responses:**  
201: Created  
409: Username already taken

### GET users/{username}

- **Purpose:** Gets user by {username}
- **Parameters:**

```
{  
  "username": string  
}
```
- **Responses:**  
200: OK  
404: User not found

### DELETE users/{username}

- **Purpose:** Deletes user by {username}
- **Parameters:**

```
{  
  "username": string  
}
```
- **Responses:**  
200: OK  
404: User not found

### POST users/self/collections

- **Purpose:** Creates a new collection for the user
- **Parameters:**

```
{  
  "collectionID": AUTO_INCREMENT,  
  "collectionName": "string"  
}
```
- **Responses:**

201: Collection created

409: Collection with this name already exists

GET users/self/collections

- **Purpose:** Returns all collections the user has
- **Parameters:**  
None
- **Responses:**  
200: OK  
404: No collections found for this user

GET users/self/collections/{collectionName}

- **Purpose:** Returns the collection by its name {collectionName}
- **Parameters:**  
{  
  "collectionName": "string"  
}
- **Responses:**  
404: Collection with this name not found

PUT users/self/collections/{collectionName}

- **Purpose:** Modifies the name of the {collectionName} collection
- **Parameters:**  
{  
  "collectionName": "string",  
  newCollectionName: "string"  
}
- **Responses:**  
200: OK  
404: Collection with this name not found

DELETE users/self/collections/{collectionName}

- **Purpose:** Deletes the {collectionName} collection
- **Parameters:**  
{  
  "collectionName": "string"  
}
- **Responses:**  
200: OK  
404: Collection with this name not found

POST users/self/collections/{collectionName}/items

- **Purpose:** Creates a new item in {collectionName} collection
- **Parameters:**  
{  
  "collectionName": "string"  
  "itemID": AUTO\_INCREMENT,  
  "itemName": "string",  
  "itemYear": "year",  
}

```
    "itemDescription": "string"
  }
}
```

- **Responses:**

201: Created item

GET users/self/collections/{collectionName}/items

- **Purpose:** Returns the list of items within {collectionName} collection

- **Parameters:**

```
{
  "collectionName": "string"
}
```

- **Responses:**

200: OK

404: No items found

GET users/self/collections/{collectionName}/items/{itemName}

- **Purpose:** Returns {itemName} item in {collectionName} collection - This allows users to search their items via item name. For example, if a user was looking for a specific baseball card, they could search that name and determine if it was part of their collection via this service endpoint

- **Parameters:**

```
{
  "collectionName": "string",
  "itemName": "string"
}
```

- **Responses:**

200: OK

404: Item name not found

GET users/self/collections/{collectionName}/items/{year}

- **Purpose:** Returns items by {year} in {collectionName} collection

- **Parameters:**

```
{
  "collectionName": "string",
  "collectionYear": "year"
}
```

- **Responses:**

200: OK

404: No items found in year listed

PUT users/self/collections/{collectionName}/items/{itemName}/changeItemName

- **Purpose:** Modifies name of {itemName} item in {collectionName} collection

- **Parameters:**

```
{
  "collectionName": "string",
  "itemName": "string",
  "newItemName": "string"
}
```

- **Responses:**

200: OK

404: No items found with that name

PUT users/self/collections/{collectionName}/items/{itemName}/changeItemYear

- **Purpose:** Modifies year of {itemName} item in {collectionName} collection
- **Parameters:**

```
{
  "collectionName": "string",
  "itemName": "string"
  "newItemYear": "string"
}
```
- **Responses:**  
200: OK  
404: No items found with that name

PUT users/self/collections/{collectionName}/items/{itemName}/changeItemDescription

- **Purpose:** Modifies description of {itemName} item in {collectionName} collection
- **Parameters:**

```
{
  "collectionName": "string",
  "itemName": "string"
  "newItemDescription": "string"
}
```
- **Responses:**  
200: OK  
404: No items found with that name

DELETE users/self/collections/{collectionName}/items/{itemName}

- **Purpose:** Deletes {itemName} item in {collectionName} collection
- **Parameters:**

```
{
  "collectionName": "string",
  "itemName": "string"
}
```
- **Responses:**  
200: OK  
404: No items found with that name

Diagram of Communication from UI to Service Endpoints

