

Question 1

Mistake 1:

There are two APIs that use the path parameters:

- `/api/users/:imageId`
- `/api/users/:userId`

You can get users by image or user ID. This creates ambiguity since we don't know if a request like `GET /api/users/5` will fetch the users by image IDs that match 5, or users with user ID 5. We can fix this ambiguity by using more distinguishable paths. We can use `imageId` as a parameter for something else like `/api/images/:imageId`, so there's no conflict.

Mistake 2:

Here, we are using the GET method to log a user out.

```
app.get("/api/users/logout", (req, res)
```

We don't have to request any resources when logging out. A more appropriate method like DELETE for removing resources should be used to log a user out.

Mistake 3:

We aren't supposed to request a body for GET methods according to the API specification for GET.

```
app.get("/api/users/images", (req, res) => {  
  let currentUser = req.body.userId;
```

We could pass `userId` as a query parameter instead.

Mistake 4:

The only error we catch is a `SQL_CONNECTION_ERROR`.

```
  /api/users/:userId/images  
  ...  
  catch(error) { if(error.type == "SQL_CONNECTION_ERROR")
```

We can fix this by handling all possible errors.

Question 2:

Path: `/api/employees/:id`

Method: GET

Body: N/A

Description: Display an employee from the database based on ID

Responses:

- 404
 - Description: Employee with given ID not found
- ```
{
 "error": "No such employee"
```

- 200

Method: POST

- **firstName**
  - String, The employee's first name
- **lastName**
  - String, The employee's last name
- **dateOfBirth**

- Date, The date of employee's birth
- **contactNumber**
  - String, Employee's phone number
- **Email**
  - String, Employee's email address
- **Address**
  - Description: Employee's address
  - **Street**
    - String, street name
  - **City**
    - String, name of city
  - **Province**
    - String, name of province
  - **zip**
    - String, zip code
- **emergencyContact**
  - Description: Emergency contact info for employees
  - **name**
    - String, name of the contact
  - **relationship**
    - String, relation between employee and contact
  - **phone**
    - string, phone number of contact
- **role**
  - String, role of employee in the hospital (doctor, nurse, administrative)
- **department**
  - String, Department the employee works in
- **employeeID**
  - String,
- **officeLocation**
  - String, location of employee's office
- **notes**
  - String,

Description: Create a new employee

Responses:

- 201
  - Description: successfully added new employee
 

```
{
 "_id": "60d21b4667d0d8992e610c85",
 "firstName": "John",
 "lastName": "Doe",
 "dateOfBirth": "1990-01-01T00:00:00.000Z",
 "contactNumber": "123-456-7890",
 "email": "john.doe@example.com",
```

- ```

    "address": "123 Main St, Anytown, USA",
    "emergencyContact": "Jane Doe - 123-456-7890",
    "role": "Nurse",
    "department": "Pediatrics",
    "employeeID": "E001",
    "officeLocation": "Building A, Room 101",
    "notes": "Notes about John Doe"
  }

```
- 400
 - Description: bad request, new employee not created


```

          {
            "error": "Missing required fields"
          }
          
```

Path: /api/employees/:id

Method: DELETE

Body: N/A

Description: Remove the employee with the given ID from the database

Responses:

- 404
 - Description: Employee with given ID not found


```

          {
            "error": "No such employee"
          }
          
```
- 200
 - Successfully removed employee


```

          {
            "message": "Employee deleted successfully"
          }
          
```

Path: /api/employees/:id

Method: PATCH

Body:

- **firstName**
 - String, The employee's first name
- **lastName**
 - String, The employee's last name
- **dateOfBirth**
 - Date, The date of employee's birth
- **contactNumber**
 - String, Employee's phone number
- **Email**
 - String, Employee's email address
- **Address**

- Description: Employee's address
- **Street**
 - String, street name
- **City**
 - String, name of city
- **Province**
 - String, name of province
- **zip**
 - String, zip code
- **emergencyContact**
 - Description: Emergency contact info for employees
 - **name**
 - String, name of the contact
 - **relationship**
 - String, relation between employee and contact
 - **phone**
 - string, phone number of contact
- **role**
 - String, role of employee in the hospital (doctor, nurse, administrative)
- **department**
 - String, Department the employee works in
- **employeeID**
 - String,
- **officeLocation**
 - String, location of employee's office
- **notes**
 - String,

Description: Update the information of the employee with the given ID

Responses:

- 404
 - Description: Employee with given ID not found


```
{
  "error": "No such employee"
}
```
- 200
 - Successfully updated employee


```
{
  "message": "Employee info updated successfully"
}
```