

App URL: <https://hw9-final-deanh.appspot.com>

App Sign-In URL: <https://hw9-final-deanh.appspot.com>

Non-User Entities:

Patients: This entity is a protected resource. CRUD operations involving patients require a JWT authorization token (Viewing the /patients collection does not require a JWT). The required fields for POST and PUT requests are "first_name" and "last_name" the remainder of the fields {"gender": "", "phone": "", "email_address": "", "address": "", "visit_date": "", "diagnosis": ""} are optional. The addition of any other fields to these requests will be rejected.

Rooms: This entity is not a protected resource. CRUD operations involving rooms do NOT require a JWT token. The three fields {"number": "", "check_in": "", "wing": ""} are all required for both PUT and POST requests. The PATCH request can modify zero to all three of these properties. The addition of any other fields to these requests will be rejected.

Relationship between Patients and Rooms:

This relationship is a one-to-zero/one relationship, meaning that a room can either have zero or one patients in it. A patient can only be located in one room, or has yet to be assigned a room. If a patient is assigned a room, the patient resource will contain a "room" attribute that contains the "id" of the assigned room. The room resource will contain a "patient" attribute that contains the "id" and the "last_name" of the patient assigned to that room. Upon discharging a patient from a room (removal of relationship between these two entities) each attribute will be set to "null" (i.e. a patient's "room" attribute = "null" and a room's "patient" attribute = "null"). The addition of a new patient to an occupied room or the addition of a patient already assigned a room to a new room will result in a 403 status code.

User Entity:

The unique identifier for the user is their doctor ID is gathered from your JWT token as the "sub" field. This identifier will be shown to the user after successful authentication. Please specify this ID when accessing the List Patients for a Given Doctor request. The application maps a JWT to a specified user by using the verify_oauth2_token() (https://google-auth.readthedocs.io/en/latest/reference/google.oauth2.id_token.html) function provided through Google which returns a mapping for the specified JWT. This mapping includes a "sub" field which is a unique identifier for each authenticated Google Account.

Relationship between Doctors (User) and Patients:

Doctors can create patients (their records). Patients are a protected resource and all CRUD operations can only be completed by a valid doctor (using their JWT). The patient record will contain a "physician_id" field upon successful creation of their record. This field is set to the doctor ID who created this patient record. A doctor may view his patients by List Patients for a Given Doctor request. You must specify your doctor ID to see your patients (doctor ID will be shown to you upon successful authentication).

Login

This Application requires you to authenticate yourself by using a Google Account. To utilize the application, please sign in with your Google Account. Upon successful authentication, you will be shown a JWT to be used to interact with the “patients” resources. Please set your Authorization header as “Bearer <your-jwt>”. Your physician/doctor ID will be shown upon successful authentication and can be used to view your patients.

Postman Collection Set-up:

Please replace the value of the “doctor_id” variable in the Postman environment to the value that was presented to you upon successful authentication. Please replace the value of “your_jwt_token” to the JWT shown to you upon successful authentication (this JWT is only good for one hour). Using another google account, please authenticate again to receive a different JWT and doctor ID. Set the value of “other_jwt_token” in Postman environment to the JWT of the other google account. This is important for one of the tests that require a “valid” JWT but is associated with a different doctor ID.

Assignment 9: API Spec

CS 493: Cloud Application Development

Fall 2019

Oregon State University

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Create a Patient

Allows you to create a new boat.

POST /boats

Request

Request Headers

Content-Type: 'application/json'

Authorization: "Bearer <your-jwt>"

Request Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
first_name	String	The first name of the patient.	Yes
last_name	String	The last name of the patient.	Yes
gender	String	Gender of patient.	No
phone	String	Phone Number of patient.	No
email_address	String	Email address of patient.	No
address	String	Address of patient.	No
visit_date	String	Date of visit	No
diagnosis	String	Diagnosis of patients visit	No

Request Body Example

```
{
  "first_name": "John",
  "last_name": "Doe"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing any of the 2 required attributes, the patient must not be created, and 400 status code must be returned.

		If the request contains any attribute not specified, the 400 status code will be returned.
Unauthorized	401 Unauthorized	Invalid or missing JWT
Unsupported Media	415 Unsupported Media Type	The request Content-Type must be JSON

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created. This value needs to be sent in the response body as shown in the example.
- The `self` attribute will contain the live link to the REST resource corresponding to this patient. In other words, this is the URL to get this newly created patient.
- The `room` attribute cannot be set at the time of creation.
- The `physician_id` field will be automatically generated based on your JWT and will be set to your ID shown after authentication

Success

Status: 201 Created

```
{
  "first_name": "John",
  "visit_date": "",
  "last_name": "Doe",
  "email_address": "",
  "gender": "",
  "diagnosis": "",
  "additional_information": [],
  "drug_code": "",
  "physician_id": "116663046689015953290",
  "room": null,
  "phone": "",
  "address": "",
  "id": "6209824106741760",
  "self": "http://localhost:8080/patients/6209824106741760"
}
```

Failure

Status: 400 Bad Request

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

Unauthorized

Status: 401 Unauthorized

```
{
  "Error": "Invalid or Missing JWT"
}
```

Unsupported Media Type

Status: 415 Unsupported Media Type

```
{  
  "Error": " The request Content-Type must be JSON"  
}
```

Get a Patient

Allows you to get an existing patient. Must have proper JWT to view specific patient.

GET /patients/:patient_id

Request

Request Headers

Authorization: "Bearer <your-jwt>"

Request Parameters

Name	Type	Description	Required?
patient_id	String	ID of the patient	Yes

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	404 Not Found	No patient with this patient_id exists
Unauthorized	401 Unauthorized	Invalid or missing JWT
Not Acceptable	406 Not Acceptable	Accept mimetype must be 'application/json'

Response Examples

Success

Status: 200 OK

```
{
  "diagnosis": "",
  "id": "6209824106741760",
  "additional_information": [],
  "physician_id": "116663046689015953290",
  "drug_code": "",
  "room": null,
  "phone": "",
  "address": "",
  "first_name": "John",
  "visit_date": "",
  "last_name": "Doe",
  "gender": "",
  "email_address": "",
  "self": "http://localhost:8080/patients/6209824106741760"
}
```

Failure

Status: 404 Not Found

```
{  
  "Error": "No patient with this patient_id exists"  
}
```

Unauthorized

Status: 401 Unauthorized

```
{  
  "Error": "Invalid or Missing JWT"  
}
```

Not Acceptable

Status: 406 Not Acceptable

```
{  
  "Error": "Accept mimetype must be 'application/json'"  
}
```


List all Patients

List all the patients.

GET /patients

Request

Request Headers

Accept: 'application/json'

Request Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Not Acceptable	406 Not Acceptable	Accept mimetype must be 'application/json'

Response Examples

Success

Status: 200 OK

```
[{
  "patients": [
    {
      "id": 5101952727777280,
      "diagnosis": "",
      "additional_information": [],
      "drug_code": "",
      "physician_id": "116663046689015953290",
      "room": {
        "id": 5702167830724608,
        "self": "http://localhost:8080/rooms/5702167830724608"
      },
      "phone": "",
      "address": "",
      "first_name": "Bob",
      "visit_date": "",
      "last_name": "Saget",
      "gender": "",
      "email_address": "",
      "self": "http://localhost:8080/patients/5101952727777280"
    },
    {

```

```

    "diagnosis": "",
    "id": 5700305828184064,
    "physician_id": "116663046689015953290",
    "first_name": "Bob",
    "visit_date": "",
    "room": null,
    "address": "",
    "phone": "444-444-4444",
    "last_name": "Kelso",
    "gender": "",
    "email_address": "kelso@hospital.com",
    "self": "http://localhost:8080/patients/5700305828184064"
  },
  {
    "diagnosis": "Tumor",
    "id": 5706275094528000,
    "first_name": "Tim",
    "physician_id": "116663046689015953290",
    "visit_date": "",
    "room": null,
    "address": "",
    "phone": "444-444-4444",
    "last_name": "Dongle",
    "gender": "",
    "email_address": "tim@hospital.com",
    "self": "http://localhost:8080/patients/5706275094528000"
  },
  {
    "id": 6209824106741760,
    "diagnosis": "",
    "additional_information": [],
    "drug_code": "",
    "physician_id": "116663046689015953290",
    "room": null,
    "phone": "",
    "address": "",
    "first_name": "John",
    "visit_date": "",
    "last_name": "Doe",
    "gender": "",
    "email_address": "",
    "self": "http://localhost:8080/patients/6209824106741760"
  },
  {
    "diagnosis": "",
    "id": 6227852634619904,
    "physician_id": "116663046689015953290",
    "first_name": "Bob",
    "visit_date": "",
    "room": null,
    "address": "",
    "phone": "",
    "last_name": "Saget",

```

```
      "email_address": "",
      "gender": "",
      "self": "http://localhost:8080/patients/6227852634619904"
    }
  ],
  "total": 6,
  "next": "http://localhost:8080/patients?limit=5&offset=5"
```

Not Acceptable

Status: 406 Not Acceptable

```
{
  "Error": "Accept mimetype must be 'application/json'"
}
```

Edit a Patient

Allows you to edit a patient. Must have proper JWT to edit patient.

PATCH /patient/:patient_id

Request

Request Headers

Content-Type: 'application/json'

Authorization: "Bearer <your-jwt>"

Request Parameters

Name	Type	Description	Required?
patient_id	String	ID of the patient	Yes

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
first_name	String	The first name of the patient.	No
last_name	String	The last name of the patient.	No
gender	String	Gender of patient.	No
phone	String	Phone Number of patient.	No
email_address	String	Email address of patient.	No
address	String	Address of patient.	No
visit_date	String	Date of visit	No
diagnosis	String	Diagnosis of patients visit	No

Request Body Example

Request Body Example

```
{
  "diagnosis": "Sprained Ankle",
  "email_address": "odyssey@odyssey.com"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	The request object has unacceptable attributes
Unauthorized	401 Unauthorized	Invalid or missing JWT
Failure	404 Not Found	No patient with this patient_id exists

Not Acceptable	406 Not Acceptable	Accept mimetype must be 'application/json'
Unsupported Media	415 Unsupported Media Type	The request Content-Type must be JSON

Response Examples

- The `self` attribute will contain the live link to the REST resource corresponding to this patient.

Success

Status: 200 OK

```
{
  "diagnosis": "Sprained Ankle",
  "id": "6270652252160000",
  "physician_id": "116663046689015953290",
  "first_name": "Jason",
  "visit_date": "1/1/2020",
  "room": null,
  "address": "",
  "phone": "444-444-4444",
  "last_name": "Took",
  "email_address": "odyssey@odyssey.com",
  "gender": "",
  "self": "http://localhost:8080/patients/6270652252160000"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object has unacceptable attributes"
}
```

Unauthorized

Status: 401 Unauthorized

```
{
  "Error": "Invalid or Missing JWT"
}
```

Status: 404 Not Found

```
{
  "Error": "No patient with this patient_id exists"
}
```

Not Acceptable

Status: 406 Not Acceptable

```
{
  "Error": "Accept mimetype must be 'application/json'"
}
```

Unsupported Media Type

Status: 415 Unsupported Media Type

```
{
  "Error": " The request Content-Type must be JSON"
}
```

PUT /patient/:patient_id

Request

Request Headers

Content-Type: 'application/json'

Authorization: "Bearer <your-jwt>"

Request Parameters

Name	Type	Description	Required?
patient_id	String	ID of the patient	Yes

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
first_name	String	The first name of the patient.	Yes
last_name	String	The last name of the patient.	Yes
gender	String	Gender of patient.	No
phone	String	Phone Number of patient.	No
email_address	String	Email address of patient.	No
address	String	Address of patient.	No
visit_date	String	Date of visit	No
diagnosis	String	Diagnosis of patients visit	No

Request Body Example

Request Body Example

```
{
  "first_name": "Enterprise",
  "last_name": "Ship"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
---------	-------------	-------

Success	200 OK	
Failure	400 Bad Request	The request object has unacceptable attributes
Unauthorized	401 Unauthorized	Invalid or missing JWT
Failure	404 Not Found	No patient with this patient_id exists
Not Acceptable	406 Not Acceptable	Accept mimetype must be 'application/json'
Unsupported Media	415 Unsupported Media Type	The request Content-Type must be JSON

Response Examples

- The `self` attribute will contain the live link to the REST resource corresponding to this patient.

Success

Status: 200 OK

```
{
  "diagnosis": "",
  "id": "6270652252160000",
  "physician_id": "116663046689015953290",
  "first_name": "Enterprise",
  "visit_date": "",
  "room": null,
  "address": "",
  "phone": "",
  "last_name": "Ship",
  "email_address": "",
  "gender": "",
  "self": "http://localhost:8080/patients/6270652252160000"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object has unacceptable attributes"
}
```

Unauthorized

Status: 401 Unauthorized

```
{
  "Error": "Invalid or Missing JWT"
}
```

Status: 404 Not Found

```
{
  "Error": "No patient with this patient_id exists"
}
```

Not Acceptable

Status: 406 Not Acceptable

```
{  
  "Error": "Accept mimetype must be 'application/json'"  
}
```

Unsupported Media Type

Status: 415 Unsupported Media Type

```
{  
  "Error": "The request Content-Type must be JSON"  
}
```


Delete a Patient

Allows you to delete a patient. Note that if the patient is currently in a room, deleting the patient makes the room empty. Must have proper JWT to delete patient.

DELETE /patients/:patient_id

Request

Request Headers

Authorization: "Bearer <your-jwt>"

Request Parameters

None

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Unauthorized	401 Unauthorized	Invalid or missing JWT
Failure	404 Not Found	No patient with this patient_id exists

Response Examples

Success

Status: 204 No Content

Unauthorized

Status: 401 Unauthorized { "Error": "Invalid or Missing JWT" }

Failure

Status: 404 Not Found { "Error": "No patient with this patient_id exists" }
--

Create a Room

Allows you to create a new room.

POST /rooms

Request

Request Headers

Content-Type: 'application/json'

Request Parameters

None

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
number	String	Number of the room.	Yes
check_in	String	Date of patient check_in to room.	Yes
wing	String	Which wing is the room located in	Yes

Request Body Example

```
{
  "number": "H-1",
  "check_in": "12/12/2019",
  "wing": "West"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	201 Created	
Failure	400 Bad Request	If the request is missing the any attribute, the room is not created, and 400 status code is returned.
Unsupported Media	415 Unsupported Media Type	The request Content-Type must be JSON

Response Examples

- Datastore will automatically generate an ID and store it with the entity being created.
- The value of the attribute `patient` is the ID and `last_name` of the patient currently holding this load. If there is no patient in this room, the value of `patient` is null
- The value of the attribute `self` is a live link to the REST resource corresponding to this load. In other words, this is the URL to get this newly created load.

Success

Status: 201 Created

```
{
  "wing": "West",
  "number": "H-1",
  "check_in": "12/12/2019",
  "patient": null,
  "id": "5702167830724608",
  "self": "http://localhost:8080/rooms/5702167830724608"
}
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object is missing the required number"
}
```

Unsupported Media Type

Status: 415 Unsupported Media Type

```
{
  "Error": "The request Content-Type must be JSON"
}
```

Get a Room

Allows you to get an existing room.

GET /rooms/:room_id

Request

Request Headers

Accept: 'application/json'

Request Parameters

Name	Type	Description	Required?
room_id	String	ID of the room	Yes

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	404 Not Found	No room with this room_id exists
Not Acceptable	406 Not Acceptable	Accept mimetype must be 'application/json'

Response Examples

Success

Status: 200 OK
<pre>{ "number": "H-1", "id": "5702167830724608", "wing": "West", "check_in": "12/12/2019", "patient": { "id": 510195272777280, "last_name": "Saget", "self": "http://localhost:8080/patients/510195272777280" }, "self": "http://localhost:8080/rooms/5702167830724608" }</pre>

Failure

Status: 404 Not Found
<pre>{ "Error": "No room with this room_id exists" }</pre>

Not Acceptable

Status: 406 Not Acceptable

```
{  
  "Error": "Accept mimetype must be 'application/json'"  
}
```

List all Rooms

List all the rooms.

GET /rooms

Request

Request Headers

Accept: 'application/json'

Request Parameters

None

Request Body

None

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Not Acceptable	406 Not Acceptable	Accept mimetype must be 'application/json'

Response Examples

Success

Status: 200 OK

```
{
  "rooms": [
    {
      "number": "F-5",
      "id": 5186378094608384,
      "wing": "North",
      "check_in": "12/1/2019",
      "patient": null,
      "self": "http://localhost:8080/rooms/5186378094608384"
    },
    {
      "wing": "East",
      "number": "H-2",
      "id": 5669869676658688,
      "check_in": "12/13/2019",
      "patient": null,
      "self": "http://localhost:8080/rooms/5669869676658688"
    },
    {
      "wing": "West",
      "number": "H-1",
      "id": 5702167830724608,
      "check_in": "12/12/2019",
      "patient": {
```

```
        "id": 5101952727777280,  
        "last_name": "Saget",  
        "self": "http://localhost:8080/patients/5101952727777280"  
    },  
    "self": "http://localhost:8080/rooms/5702167830724608"  
},  
],  
"total": 3  
}
```

Not Acceptable

Status: 406 Not Acceptable

```
{  
  "Error": "Accept mimetype must be 'application/json'"  
}
```

Edit a Room

Allows you to edit a room.

PATCH /rooms/:room_id

Request

Request Headers

Content-Type: 'application/json'

Request Parameters

Name	Type	Description	Required?
room_id	String	ID of the room	Yes

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
number	String	Number of the room.	No
check_in	String	Date of patient check_in to room.	No
wing	String	Which wing is the room located in	No

Request Body Example

```
{
  "number": "B-52"
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	The request object has unacceptable attributes
Failure	404 Not Found	No room with this room_id exists
Unsupported Media	415 Unsupported Media Type	The request Content-Type must be JSON

Response Examples

- The `self` attribute will contain the live link to the REST resource corresponding to this patient.

Success

```
Status: 200 OK

{
  "number": "B-52",
  "id": "5186378094608384",
}
```



```
"wing": "North",
"check_in": "12/1/2019",
"patient": {
  "id": 6270652252160000,
  "last_name": "Ship",
  "self": "http://localhost:8080/patients/6270652252160000"
},
"self": "http://localhost:8080/rooms/5186378094608384"
```

Failure

Status: 400 Bad Request

```
{
  "Error": "The request object has unacceptable attributes"
}
```

Status: 404 Not Found

```
{
  "Error": "No room with this room_id exists"
}
```

Unsupported Media Type

Status: 415 Unsupported Media Type

```
{
  "Error": "The request Content-Type must be JSON"
}
```

PUT /rooms/:room_id

Request

Request Headers

Content-Type: 'application/json'

Request Parameters

Name	Type	Description	Required?
room_id	String	ID of the room	Yes

Request Body

Required

Request Body Format

JSON

Request JSON Attributes

Name	Type	Description	Required?
number	String	Number of the room.	Yes
check_in	String	Date of patient check_in to room.	Yes
wing	String	Which wing is the room located in	Yes

Request Body Example

```
{
  "number": "A-12",
```

```
"check_in": "12/1/2019",  
"wing": "West"  
}
```

Response

Response Body Format

JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Failure	400 Bad Request	The request object has unacceptable attributes
Failure	404 Not Found	No room with this room_id exists
Unsupported Media	415 Unsupported Media Type	The request Content-Type must be JSON

Response Examples

- The `self` attribute will contain the live link to the REST resource corresponding to this patient.

Success

Status: 200 OK

```
{  
  "number": "A-12",  
  "id": "5186378094608384",  
  "wing": "West",  
  "check_in": "12/1/2019",  
  "patient": null,  
  "self": "http://localhost:8080/rooms/5186378094608384"  
}
```

Failure

Status: 400 Bad Request

```
{  
  "Error": "The request object has unacceptable attributes"  
}
```

Status: 404 Not Found

```
{  
  "Error": "No room with this room_id exists"  
}
```

Unsupported Media Type

Status: 415 Unsupported Media Type

```
{  
  "Error": "The request Content-Type must be JSON"  
}
```

Delete a Room

Allows you to delete a room. If the room being deleted has a patient, the patient's room attribute is set to null.

DELETE /rooms/:room_id

Request

Request Parameters

None

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	
Failure	404 Not Found	No room with this room_id exists

Response Examples

Success

Status: 204 No Content

Failure

Status: 404 Not Found <pre>{ "Error": "No load with this load_id exists" }</pre>

Admit Patient to Room

Patient is admitted to a given room.

```
PUT /patients/:patient_id/rooms/:room_id
```

Request

Request Headers

Authorization: "Bearer <your-jwt>"

Request Parameters

None

Request Body

None

Note: You will need to set Content-Length to 0 in your request when calling out to this endpoint.

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	Succeeds only if a patient exists with this patient_id, a room exists with this room_id and the room does not have another patient in it.
Unauthorized	401 Unauthorized	Invalid or Missing JWT
Failure	403 Forbidden	There is already a boat with this load.
Not Found	404 Not Found	No patient with this patient_id exists, and/or no room with this room_id exists.

Response Examples

Success

```
Status: 204 No Content
```

Failure

```
Status: 403 Forbidden
```

```
{
  "Error": "The room already has a patient"
}
```

Not Found

```
Status: 404 Not Found
```

```
{
  "Error": "The specified patient and/or room don't exist"
}
```

```
}
```

Unauthorized

Status: 401 Unauthorized

```
{  
  "Error": "Invalid or Missing JWT"  
}
```

Discharge a Patient from a Room

Remove a patient from a given room.

```
DELETE /patients/:patient_id/rooms/:room_id
```

Request

Request Headers

Authorization: "Bearer <your-jwt>"

Request Parameters

None

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	204 No Content	Succeeds only if a patient exists with this patient_id, a room exists with this room_id and the room does not have another patient in it.
Unauthorized	401 Unauthorized	Invalid or Missing JWT
Forbidden	403 Forbidden	There is already a boat with this load.
Not Found	404 Not Found	No patient with this patient_id exists, and/or no room with this room_id exists.

Response Examples

Success

```
Status: 204 No Content
```

Forbidden

```
Status: 403 Forbidden
```

```
{
  "Error": "The room already has a patient"
}
```

Not Found

```
Status: 404 Not Found
```

```
{
  "Error": "The specified patient and/or room don't exist"
}
```

Unauthorized

Status: 401 Unauthorized

```
{  
  "Error": "Invalid or Missing JWT"  
}
```

Lists Room for a Given Patient

Lists the room for a given patient.

GET / patients/:patient_id/rooms

Request

Request Parameters

None

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	Succeeds only if a patient exists with this patient_id exists.
Failure	404 Not Found	No patient with this patient_id exists.

Response Examples

Success

Status: 200 OK
<pre>[{ "wing": "North", "number": "F-5", "id": "5186378094608384", "check_in": "12/1/2019", "patient": { "id": 6270652252160000, "last_name": "Ship", "self": "http://localhost:8080/patients/6270652252160000" }, "self": "http://localhost:8080/rooms/5186378094608384" }]</pre>

Failure

Status: 404 Not Found
<pre>{ "Error": "No patient with this patient_id exists" }</pre>

Lists Patients for a Given Doctor

Lists the patients for a given user.

GET / doctors/:doctor_id/patients

Request

Request Headers

Authorization: "Bearer <your-jwt>"

Request Parameters

None

Request Body

None

Response

No body

Response Body Format

Success: No body

Failure: JSON

Response Statuses

Outcome	Status Code	Notes
Success	200 OK	
Unauthorized	401 Unauthorized	Invalid or Missing JWT
Forbidden	403 Forbidden	There is already a boat with this load.

Response Examples

Success

Status: 200 OK

```
[
  {
    "id": "5645015573331968",
    "diagnosis": "Sprained Ankle",
    "physician_id": "116663046689015953290",
    "first_name": "Jason",
    "visit_date": "1/1/2020",
    "room": null,
    "phone": "444-444-4444",
    "address": "",
    "last_name": "Took",
    "email_address": "odyssey@odyssey.com",
    "gender": "",
    "self": "http://localhost:8080/patients/5645015573331968"
  },
  {
    "diagnosis": "Tumor",
```

```
[{"id": "5742796208078848",
  "physician_id": "116663046689015953290",
  "first_name": "Jason",
  "visit_date": "1/1/2020",
  "room": null,
  "address": "",
  "phone": "444-444-4444",
  "last_name": "Took",
  "email_address": "json@hospital.com",
  "gender": "",
  "self": "http://localhost:8080/patients/5742796208078848"
}]
```

Unauthorized

```
Status: 401 Unauthorized
{
  "Error": "Invalid or Missing JWT"
}
```

Forbidden

```
Status: 403 Forbidden
{
  "Error": "You do not have access to this collection"
}
```