

Final Project - HVAC Service Parts Inventory

GitHub URL: <https://github.com/ANGRAYSON/Final-Project>

Screenshots of Results of Running each path in Swagger:

Screenshots also under 'Final Project Screenshots' folder on GitHub. (There's a lot)

Inventory:

Put:

PUT

/inventory/update/{part_num}/{location_num}

Update a specific part's inventory

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Updates stock of a specific part, at specific location

Parameters

Cancel

Name	Description
part_num * required string (path)	<input type="text" value="11K49"/>
location_num * required integer(int32) (path)	<input type="text" value="1"/>
stock * required integer(int32) (query)	<input type="text" value="6"/>

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
'http://localhost:8080/inventory/update/11K49/1?stock=6' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/inventory/update/11K49/1?stock=6
```

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "part_num_fk": "11K49", "part_name": "LP KIT", "location_num_fk": 1, "location_name": "SHOP", "stock": 6 }</pre></div><div><div>Download</div></div></div>

Responses		
Code	Description	Links
200	Stock successfully updated	No links
<div>Media type</div> <div>application/json</div> <div>Controls Accept header</div> <div>Example Value Schema</div> <pre>{ "part_num_fk": "string", "part_name": "string", "location_num_fk": 0, "location_name": "string", "stock": 0 }</pre>		
400	Invalid request	No links
<div>Media type</div> <div>application/json</div>		
404	No inventory found with that ID, missing inventory component	No links
<div>Media type</div> <div>application/json</div>		
500	An unplanned error occurred	No links
<div>Media type</div> <div>application/json</div>		

Post:

POST /inventory/new/{location_num} Create new inventory at specific location

Creates a new inventory item at a certain location (shop is default)

Parameters
 Cancel

Name	Description
location_num * required integer(\$int32) (path)	<input type="text" value="4"/>
stock * required integer(\$int32) (query)	<input type="text" value="5"/>
part_num * required string (query)	<input type="text" value="11K49"/>

Execute
 Clear

Responses

Curl

```
curl -X 'POST' \
'http://localhost:8080/inventory/new/4?stock=5&part_num=11K49' \
-H 'accept: application/json' \
-d ''
```

Request URL

```
http://localhost:8080/inventory/new/4?stock=5&part_num=11K49
```

Server response

Code	Details
200 <small>Undocumented</small>	<div>Response body</div> <pre>{ "part_num_fk": "11K49", "part_name": "LP KIT", "location_num_fk": 4, "location_name": "TRUCK 1", "stock": 5 }</pre> <div> Download </div>

Response headers

Responses		
Code	Description	Links
201	An inventory was successfully created	No links
	Media type application/json	
	Controls Accept header.	
	Example Value Schema	
	<pre>{ "part_num_fk": "string", "part_name": "string", "location_num_fk": 0, "location_name": "string", "stock": 0 }</pre>	
400	Invalid request	No links
	Media type application/json	
404	Missing inventory component	No links
	Media type application/json	
500	An unplanned error occurred	No links
	Media type application/json	

Get:

Parameters
Cancel

No parameters

Execute
Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:8080/inventory/all' \
-H 'accept: application/json'
```

Request URL

http://localhost:8080/inventory/all

Server response

Code
Details

200

Response body

```
[
  {
    "part_num_fk": "11049",
    "part_name": "LP KIT",
    "location_num_fk": 1,
    "location_name": "SHOP",
    "stock": 6
  },
  {
    "part_num_fk": "93M13",
    "part_name": "INDUCED DRAFT ASSEMBLY",
    "location_num_fk": 1,
    "location_name": "SHOP",
    "stock": 10
  },
  {
    "part_num_fk": "71M49",
    "part_name": "LIMIT SWITCH",
    "location_num_fk": 1,
    "location_name": "SHOP",
    "stock": 10
  },
  {
    "part_num_fk": "11067",
    "part_name": "PRESSURE SWITCH",
    "location_num_fk": 1,
    "location_name": "SHOP",
    "stock": 10
  }
]
```

Download

Responses

Code	Description	Links
200	A list of all inventories is returned	No links
	Media type <input type="text" value="application/json"/> Controls Accept header. Example Value Schema <pre>{ "part_num_fk": "string", "part_name": "string", "location_num_fk": 0, "location_name": "string", "stock": 0 }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No inventories were found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

GET /inventory/location/{location_num} Show all inventory in one location

Returns all parts, stock in a specific location based on location ID

Parameters

Cancel

Name Description

location_num * required
integer(\$int32)
(path)

3

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/inventory/location/3' \
  -H 'accept: application/json'
```

Request URL

http://localhost:8080/inventory/location/3

Server response

Code Details

200

Response body

```
{
  {
    "part_num_fk": "11Y33",
    "part_name": "LO PRESSURE SWITCH",
    "location_num_fk": 3,
    "location_name": "VAN 2",
    "stock": 5
  },
  {
    "part_num_fk": "33M12",
    "part_name": "BLOWER MOTOR",
    "location_num_fk": 3,
    "location_name": "VAN 2",
    "stock": 5
  },
  {
    "part_num_fk": "71M15",
    "part_name": "TXV 2.5/3 TON",
    "location_num_fk": 3,
    "location_name": "VAN 2",
    "stock": 5
  }
}
```

Responses		
Code	Description	Links
200	<p>A list of all inventory with specific location is returned</p> <p>Media type application/json</p> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "part_num_fk": "string", "part_name": "string", "location_num_fk": 0, "location_name": "string", "stock": 0 }</pre>	No links
400	<p>Invalid request</p> <p>Media type application/json</p>	No links
404	<p>No inventories were found</p> <p>Media type application/json</p>	No links
500	<p>An unplanned error occurred</p> <p>Media type application/json</p>	No links

GET

/inventory/part/{part_num}

Show specific part inventory

^

Returns stock and locations for specific part

Parameters

Cancel

Name	Description
part_num * required string (path)	<input type="text" value="11K49"/>

Execute

Clear

Responses

Curl

curl -X 'GET' \
'http://localhost:8080/inventory/part/11K49' \
-H 'accept: application/json'

Request URL

http://localhost:8080/inventory/part/11K49

Server response

Code	Details
200	<div>Response body</div> <pre>{ { "part_num_fk": "11K49", "part_name": "LP KIT", "location_num_fk": 1, "location_name": "SHOP", "stock": 0 }, { "part_num_fk": "11K49", "part_name": "LP KIT", "location_num_fk": 0, "location_name": "TRUCK 1", "stock": 5 } }</pre> <div><div>Download</div></div>

Response headers

Responses		
Code	Description	Links
200	A inventory for a specific part is returned	No links
	Media type <input type="text" value="application/json"/> <small>Controls Accept header.</small> Example Value Schema <pre>{ "part_num_fk": "string", "part_name": "string", "location_num_fk": 0, "location_name": "string", "stock": 0 }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No inventories were found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

Parts:

Get:

GET

/parts/{part_num} Show a specific part

⬆

Returns part based on unique ID

Parameters

Cancel

Name	Description
part_num * required string (path)	<input type="text" value="11K49"/>

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:8080/parts/11K49' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/parts/11K49
```

Server response

Code	Details
200	<div>Response body</div> <pre>{ "part_num": "11K49", "name": "LP KI1", "type": "HEATING" }</pre> <div>Response headers</div> <pre>connection: keep-alive content-type: application/json date: Wed, 15 Jun 2022 20:52:17 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre>

Responses		
Code	Description	Links
200	The specific part was returned	No links
	Media type <input type="text" value="application/json"/> Controls Accept header. Example Value Schema <pre>{ "part_num": "string", "name": "string", "type": "HEATING" }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No part with that ID could be found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

GET /parts Show all parts

Returns all HVAC service parts

Parameters

Cancel

No parameters

Execute

Clear

Responses

Curl


```
curl -X 'GET' \
  'http://localhost:8080/parts' \
  -H 'accept: application/json'
```

Request URL


```
http://localhost:8080/parts
```

Server response

Code	Details
200	<div>Response body</div> <pre>[{ "part_num": "11U67", "name": "PRESSURE SWITCH", "type": "HEATING" }, { "part_num": "11X75", "name": "CONDENSOR FAN MOTOR", "type": "ELECTRIC" }, { "part_num": "11Y33", "name": "LO PRESSURE SWITCH", "type": "COOLING" }, { "part_num": "14C95", "name": "CONTROL BOARD", "type": "ELECTRIC" }, { "part_num": "16C81", "name": "CONTROL BOARD", "type": "ELECTRIC" }]</pre> <div>Download</div>

Responses		
Code	Description	Links
200	A list of all parts is returned	No links
	Media type <input type="text" value="application/json"/> Controls Accept header. Example Value Schema <pre>{ "part_num": "string", "name": "string", "type": "HEATING" }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No parts were found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

Put:

PUT

/parts/{part_num}

Update an existing part

^

Update an existing part base on its unique ID

Parameters

Cancel

Name	Description
part_num * required string (path)	<input type="text" value="11K49"/>
part_name * required string (query)	<input type="text" value="LP KIT 2"/>
type * required string (query)	<input type="text" value="HEATING"/>

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:8080/parts/11K49?part_name=LP%20KIT%202&type=HEATING' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/parts/11K49?part_name=LP%20KIT%202&type=HEATING
```

Server response

Code	Details
200	Response body <pre>{ "part_num": "11K49", "name": "LP KIT 2", "type": "HEATING" }</pre> <div>Download</div>

Responses		
Code	Description	Links
200	The part was updated successfully	No links
	<div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <pre>{ "part_num": "string", "name": "string", "type": "HEATING" }</pre>	
400	Invalid request	No links
	<div>Media type</div> <div>application/json</div>	
404	Missing component of part, or no part found with that ID	No links
	<div>Media type</div> <div>application/json</div>	
500	An unplanned error occurred	No links
	<div>Media type</div> <div>application/json</div>	

Delete:

DELETE

/parts/{part_num}

Delete a part

Delete a part in HVAC service parts

Parameters

Cancel

Name	Description
part_num * required string (path)	<input type="text" value="11K49"/>

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
  'http://localhost:8080/parts/11K49' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/parts/11K49
```

Server response

Code	Details
200	<div>Response body</div> <pre>{ "part_num": "11K49", "name": "LP KIT 2", "type": "HEATING" }</pre> <div>Response headers</div> <pre>connection: keep-alive content-type: application/json date: Wed, 15 Jun 2022 20:54:18 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre>

Responses		
Code	Description	Links
200	The part was deleted successfully	No links
Media type: application/json		
Controls Accept header.		
Example Value Schema		
<pre>{ "part_num": "string", "name": "string", "type": "HEATING" }</pre>		
400	Invalid request	No links
Media type: application/json		
404	No part with that ID found	No links
Media type: application/json		
500	An unplanned error occurred	No links
Media type: application/json		

Post:

No parameters

Request body required application/json

```
{
  "part_num": "11K49",
  "name": "LP KIT",
  "type": "HEATING"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/parts' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "part_num": "11K49",
    "name": "LP KIT",
    "type": "HEATING"
  }'
```

Request URL

```
http://localhost:8080/parts
```

Server response

Code	Details
200	<div>Response body<pre>{ "part_num": "11K49", "name": "LP KIT", "type": "HEATING" }</pre><div> Download</div></div>

Responses		
Code	Description	Links
200	The part was created successfully	No links
Media type: application/json		
Controls Accept header.		
Example Value Schema		
<pre>{ "part_num": "string", "name": "string", "type": "HEATING" }</pre>		
400	Invalid request	No links
Media type: application/json		
404	Missing component of part	No links
Media type: application/json		
500	An unplanned error occurred	No links
Media type: application/json		

Parts Out:
Post:

Parameters

Name

Description

partsOut * required

object

(query)

```
{
  "employee_num_fk": 1,
  "part_num_fk": "11K49",
  "location_num_fk": 1,
  "amount_out": 1
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
'http://localhost:8080/parts_out?employee_num_fk=1&part_num_fk=11K49&location_num_fk=1&amount_out=1' \
-H 'accept: application/json' \
-d ''
```

Request URL

```
http://localhost:8080/parts_out?employee_num_fk=1&part_num_fk=11K49&location_num_fk=1&amount_out=1
```

Server response

Code

Details

200

Undocumented

Response body

```
{
  "employee_num_fk": 1,
  "part_num_fk": "11K49",
  "location_num_fk": 1,
  "amount_out": 1
}
```

Response headers

Responses		
Code	Description	Links
201	Successfully created a parts out order	No links
	Media type <input type="text" value="application/json"/>	
	Controls Accept header	
	Example Value Schema	
	<pre>{ "employee_num_fk": 0, "part_num_fk": "string", "location_num_fk": 0, "amount_out": 0 }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	Missing parts out component	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

Technicians:

Get:

GET /technicians/{employee_num} Show a specific technician

Returns a technician based on unique ID

Parameters
Cancel

Name	Description
employee_num * required Integer(int32) (path)	<input type="text" value="1"/>

Execute
Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/technicians/1' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/technicians/1
```

Server response

Code	Details
200	Response body <pre>{ "employee_num": 1, "first_name": "JOE", "last_name": "SMITH", "status": "ACTIVE" }</pre> Download

Response headers

```
connection: keep-alive
content-type: application/json
date: Wed, 15 Jun 2022 21:04:25 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	The specific technician was returned Media type application/json <small>Controls Accept header.</small> Example Value Schema <pre>{ "employee_num": 0, "first_name": "string", "last_name": "string", "status": "ACTIVE" }</pre>	No links
400	Invalid request Media type application/json	No links
404	No location with that ID could be found Media type application/json	No links
500	An unplanned error occurred Media type application/json	No links

GET /technicians Show all technicians

Returns a list of all HVAC service techs

Parameters
Cancel

No parameters

Execute
Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:8080/technicians' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/technicians
```

Server response

Code	Details
200	Response body <pre>[{ "employee_num": 1, "first_name": "JOEY", "last_name": "SMITH", "status": "INACTIVE" }, { "employee_num": 2, "first_name": "CARRY", "last_name": "BARTOLETTI", "status": "ACTIVE" }, { "employee_num": 3, "first_name": "CHRIS", "last_name": "CLAYTON", "status": "ACTIVE" }]</pre> Download

Response headers

Responses		
Code	Description	Links
200	A list of all technicians is returned	No links
	Media type <input type="text" value="application/json"/>	
	Controls Accept header	
	Example Value Schema	
	<pre>{ "employee_num": 0, "first_name": "string", "last_name": "string", "status": "ACTIVE" }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No technicians were found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

Put:

Update an existing technician base on its unique ID

Parameters
 Cancel

Name	Description
employee_num * required integer(\$int32) (path)	<input type="text" value="1"/>
first_name * required string (query)	<input type="text" value="JOEY"/>
last_name * required string (query)	<input type="text" value="SMITH"/>
status * required string (query)	<input type="text" value="INACTIVE"/>

Execute
 Clear

Responses

Curl


```
curl -X 'PUT' \
  "http://localhost:8080/technicians/1?first_name=JOEY&last_name=SMITH&status=INACTIVE" \
  -H 'accept: application/json'
```

Request URL


```
http://localhost:8080/technicians/1?first_name=JOEY&last_name=SMITH&status=INACTIVE
```

Server response

Code	Details
200	Response body <pre>{ "employee_num": 1, "first_name": "JOEY", "last_name": "SMITH", "status": "INACTIVE" }</pre> Download

Responses		
Code	Description	Links
200	The technician was updated successfully	No links
Media type application/json		
Controls Accept header.		
Example Value Schema		
<pre>{ "employee_num": 0, "first_name": "string", "last_name": "string", "status": "ACTIVE" }</pre>		
400	Invalid request	No links
Media type application/json		
404	Missing component of technician, or no technician found with that ID	No links
Media type application/json		
500	An unplanned error occurred	No links
Media type application/json		

Post:

No parameters

Request body required application/json

```
{
  "employee_num": 4,
  "first_name": "AMBER",
  "last_name": "GRAYSON",
  "status": "ACTIVE"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/technicians' \
  -H 'accept: application/json' \
  -H 'content-type: application/json' \
  -d '{
    "employee_num": 4,
    "first_name": "AMBER",
    "last_name": "GRAYSON",
    "status": "ACTIVE"
  }'
```

Request URL

http://localhost:8080/technicians

Server response

Code	Details
200	<div>Response body</div> <pre>{ "employee_num": 4, "first_name": "AMBER", "last_name": "GRAYSON", "status": "ACTIVE" }</pre> <div>Download</div>

Responses		
Code	Description	Links
200	The technician was created successfully	No links
Media type application/json		
Controls Accept header.		
Example Value Schema		
<pre>{ "employee_num": 0, "first_name": "string", "last_name": "string", "status": "ACTIVE" }</pre>		
400	Invalid request	No links
Media type application/json		
404	Missing component of technician	No links
Media type application/json		
500	An unplanned error occurred	No links
Media type application/json		

Locations:

Get:

GET

/locations/{location_num} Show a specific location

Returns a location based on unique ID

Parameters

Cancel

Name	Description
location_num * required	
integer(\$int32)	
(path)	

Execute

Clear

Responses

Curl

curl -X 'GET' \n'http://localhost:8080/locations/4' \n-H 'accept: application/json'

Request URL

http://localhost:8080/locations/4

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{ "location_num": 4, "name": "TRUCK 1" }</pre></div><div><div>Download</div></div></div> <div><div>Response headers</div><div>connection: keep-alive\ncontent-type: application/json\ndate: Wed, 15 Jun 2022 21:09:37 GMT\nkeep-alive: timeout=60\ntransfer-encoding: chunked</div></div>

Responses		
Code	Description	Links
200	<p>The specific location was returned</p> <p>Media type <input type="text" value="application/json"/></p> <p>Controls Accept header.</p> <p>Example Value Schema</p> <pre>{ "location_num": 0, "name": "string" }</pre>	No links
400	<p>Invalid request</p> <p>Media type <input type="text" value="application/json"/></p>	No links
404	<p>No location with that ID could be found</p> <p>Media type <input type="text" value="application/json"/></p>	No links
500	<p>An unplanned error occurred</p> <p>Media type <input type="text" value="application/json"/></p>	No links

GET
/locations
Show all locations

Returns a list of all HVAC service part locations

Parameters
Cancel

No parameters

Execute
Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:8080/locations' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/locations
```

Server response

Code
Details

200

Response body

```
{
  {
    "location_num": 1,
    "name": "SHOP"
  },
  {
    "location_num": 2,
    "name": "VAN 1"
  },
  {
    "location_num": 3,
    "name": "VAN 2"
  }
}
```

Download

Response headers

```
connection: keep-alive
content-type: application/json
```

Responses		
Code	Description	Links
200	A list of all locations is returned	No links
	Media type <input type="text" value="application/json"/> Controls Accept header. Example Value Schema <pre>{ "location_num": 0, "name": "string" }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No locations were found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

Put:

PUT

/locations/{location_num} Update an existing location

Update an existing location base on its unique ID

Parameters

Cancel

Name	Description
location_num * required integer(int32) (path)	<input type="text" value="4"/>
name * required string (query)	<input type="text" value="NEW TRUCK"/>

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
'http://localhost:8080/locations/4?name=NEW%20TRUCK' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8080/locations/4?name=NEW%20TRUCK
```

Server response

Code	Details
200	<div>Response body</div> <pre>{ "location_num": 4, "name": "NEW TRUCK" }</pre> <div>Response headers</div> <pre>connection: keep-alive content-type: application/json date: Wed, 15 Jun 2022 21:10:16 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre>

Responses

Code	Description	Links
200	The location was updated successfully Media type application/json Controls Accept header. Example Value Schema <pre>{ "location_num": 0, "name": "string" }</pre>	No links
400	Invalid request Media type application/json	No links
404	Missing component of location, or no location found with that ID Media type application/json	No links
500	An unplanned error occured Media type application/json	No links

Delete:

DELETE /locations/{location_num} Delete a location

Delete a location based on ID

Parameters

Cancel

Name	Description
location_num * required Integer(int32) (path)	<input type="text" value="4"/>

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
  'http://localhost:8080/locations/4' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/locations/4
```

Server response

Code	Details
200	<div><div>Response body</div><pre>{ "location_num": 4, "name": "NEW TRUCK" }</pre><div><div>Download</div></div></div> <div><div>Response headers</div><pre>connection: keep-alive content-type: application/json date: Wed, 15 Jun 2022 21:11:00 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div>

Code	Description	Links
200	The location was deleted successfully	No links
	Media type <input type="text" value="application/json"/> Controls Accept header: Example Value Schema <pre>{ "location_num": 0, "name": "string" }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	No location with that ID found	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

Post:

No parameters

Request body required

```
{
  "location_num": 4,
  "name": "NEW VAN 1"
}
```

Execute
 Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8888/locations' \
  -H 'accept: application/json' \
  -H 'content-type: application/json' \
  -d '{
    "location_num": 4,
    "name": "NEW VAN 1"
  }'
```

Request URL

```
http://localhost:8888/locations
```

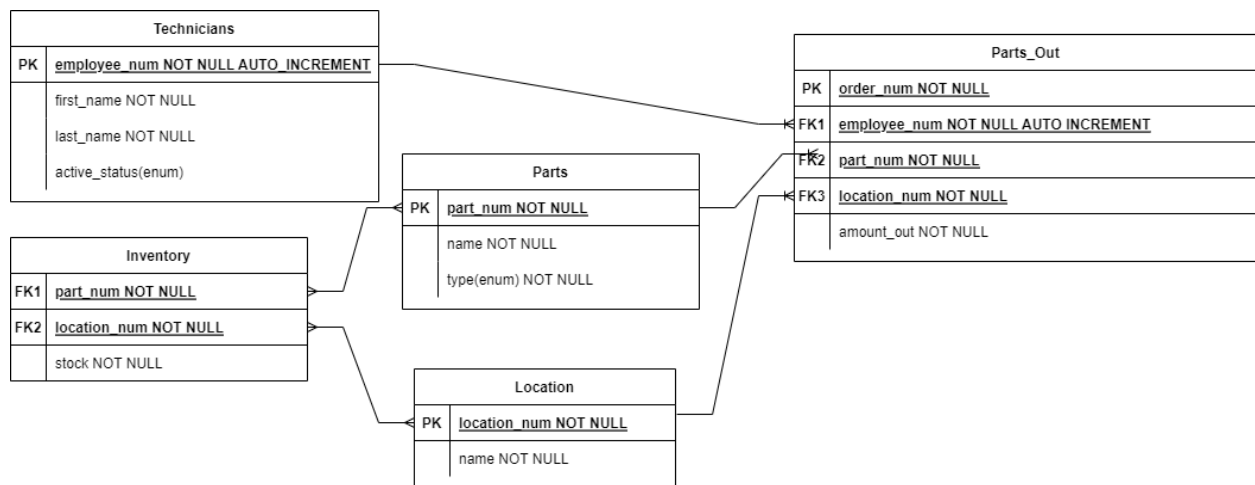
Server response

Code	Details
200	Response body <pre>{ "location_num": 4, "name": "NEW VAN 1" }</pre> <div> Download </div>

Response headers

Responses		
Code	Description	Links
200	The location was created successfully	No links
	Media type <input type="text" value="application/json"/> Controls Accept header. Example Value Schema <pre>{ "location_num": 0, "name": "string" }</pre>	
400	Invalid request	No links
	Media type <input type="text" value="application/json"/>	
404	Missing component of location	No links
	Media type <input type="text" value="application/json"/>	
500	An unplanned error occurred	No links
	Media type <input type="text" value="application/json"/>	

ERD



Web API Documentation:

Inventory: inventory as many URLs do to that fact that part numbers are strings not integers. Spring was unhappy about that so each one got its own URL to avoid errors.

Url: `/inventory/update/{part_num}/{location_num}`

- **Allowed requests:** PUT
- **Path variables:** part number, and location. Both required
- **Additional input:** stock. Also required

- **Excepted:** A user can update a parts stock at the specified location. Example: I can update the stock for part number 11K49 to be 2 at the shop location. This would most likely be done after an inventory count.
- **Returns:** This will return the updated part when it is done. Http status code 200
- **Errors:** If no part number, location number, or stock is supplied, or the part number or location doesn't exist, it will give a 400 status, meaning a bad request was sent. If there is no part at that location to update it will give a 404 status meaning the part was not found there. All errors put out messages explaining to the user what went wrong.

Url: /inventory/new/{location_num}

- **Allowed requests:** POST
- **Path Variables:** location number
- **Additional input:** stock, part number
- **Expected:** A user can create an inventory (add a part) to a location. Example: I can add 4 of part number 93W13 to my new truck.
- **Returns:** The newly created inventory when it's done
- **Errors:** If no location, stock, or part is supplied it will give a 400 bad request status. If the part or location does not exist it will have a 404 not found status. If that part already exists at the location it will throw a runtime error letting you know that you should update instead of create. All errors put out messages explaining to the user what went wrong.

Url: /inventory/part/{part_num}

- **Allowed requests:** GET
- **Path Variables:** part number
- **Additional input:** none
- **Expected:** A user can get the inventory for a specific part for all locations. Example. I can see all the locations and the inventory for part number 11K49.
- **Returns:** Returns a list of the part and its locations that it currently has stock.
- **Errors:** If no part number is supplied it will give a 400 bad request response. If the part does not exist it will give a 404 not found response. Both errors have messages stating the same.

Url: /inventory/location/{location_num}

- **Allowed requests:** GET
- **Path Variables:** location number
- **Additional input:** none
- **Expected:** A user can get all parts and their stock in a specific location. Example: I can look at what parts I have and how many I have of each in truck number 2.
- **Returns:** A list of parts and their stock at that location
- **Errors:** If no location number is supplied it will give a 400 bad request response. If the location does not exist it will give a 404 not found response. Both errors have messages stating the same.

Url: /inventory/all

- **Allowed requests:** GET
- **Path Variables:** none
- **Additional input:** none

- **Expected:** A user can look at all parts, locations, and their stock. Example: I can look at all parts in stock and where they are at.
- **Returns:** A list of parts, locations, and their stock.
- **Errors:** If no inventories are found at all, it will give a 404 not found response. There is a message stating there are no inventories.

Parts

Url: /parts/{part_num}

- **Allowed requests:** GET, PUT, DELETE
- **Path Variables:** part number for all requests
- **Additional input:** part name and type required for PUT request
- **Expected:** A user can get a specific part. A user can update the name and type of a specific part. A user can delete a specific part.
- **Returns:** GET returns the part with the matching part number. PUT returns the updated part. DELETE returns the deleted part.
- **Errors:** If the part number is not given, or if part name and type are not given for the PUT request, a 400 bad request status is given. If the part number does not exist, a 404 not found status is given. Both have messages with details.

Url: /parts

- **Allowed requests:** GET, POST
- **Path Variables:** none
- **Additional input:** request body - part number, part name, and part type
- **Expected:** A user can look at all parts. A user can create a new part.
- **Returns:** A list of all parts, or the new part created.
- **Errors:** If there are no parts found it will throw a 404 not found status. If any part of the request body is invalid(null or not given) it will give a 400 bad request status. Both have messages with detail.

Parts Out

Url: /parts_out

- **Allowed requests:** POST
- **Path Variables:** none
- **Additional input:** request body - employee number, part number, location number, and amount
- **Expected:** A user can create a part out order with a specific employee, part, location the part is coming from, and how many they are taking. Example: I am employee number 1. I am taking 4 of part number 93W13 from the shop.
- **Returns:** A created parts out order.
- **Errors:** If any part of the request body is null or not given, it will give a 400 bad request status. If the employee, part, or location does not exist it will give a 404 not found status. If the part doesn't have any stock at the location it will also give a 404 not found status. All have messages with more detail about how to fix it when it happens.

Technicians

Url: /technicians/{employee_num}

- **Allowed requests:** GET, PUT
- **Path Variables:** employee number
- **Additional input:** first name, last name, status for PUT request
- **Expected:** A user can look at a specific technician based on the employee number. A user can update the status or name of an existing tech.
- **Returns:** Both will return a technician. Either the one searched for or the one updated.
- **Errors:** If the employee number, or the first name, last name, or status, is not given you will get a 400 bad request status. If an employee with that number doesn't exist you will get a 404 not found status. Both have detailed messages.

Url: /technicians

- **Allowed requests:** GET, POST
- **Path Variables:** none
- **Additional input:** request body - employee number, first name, last name, status
- **Expected:** A user can look at all technicians. A user can create a new technician.
- **Returns:** A list of techs, or the newly created tech.
- **Errors:** If any items in the request body are not given you will get a 400 bad request error. If no techs are available to show you will get a 404 not found error.

Locations

Url: /locations{location_num}

- **Allowed requests:** GET, PUT, DELETE
- **Path Variables:** location number
- **Additional input:** name for PUT request
- **Expected:** A user can see a specific location based on the number. A user can update a location's name based on its number. A user can delete a location based on its number.
- **Returns:** All return a location.
- **Errors:** If location number, or name, is not given it will give you a 400 bad request status. If the location does not exist it will give you 404 not found status.

Url: /locations

- **Allowed requests:** GET, POST
- **Path Variables:** none
- **Additional input:** request body - location number, name
- **Expected:** A user can look at all locations. A user can create a new location.
- **Returns:** A list of all locations. A newly created location.
- **Errors:** If location number or name is not given you will get a 400 bad request status. If there are no locations you will get a 404 not found status.