

Final Project Document
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GitHub Repository link: https://github.com/BradyBenner/Final_Project_Springboot.git

My Swagger Web API path screenshots with successful executions:

Home:

The screenshot displays the Swagger UI for the 'Space Mission Pilot and Ship Assignment Application'. The browser address bar shows 'localhost:8080/swagger-ui/index.html'. The application title is 'Space Mission Pilot and Ship Assignment Application' with the path '/v3/api-docs'. A 'Servers' dropdown is set to 'http://localhost:8080 - Brady's Local Server'. The API endpoints are listed as follows:

- create-pilot-controller**: PUT /createpilot. Description: Creates a pilot with the specified First and Last Name and License.
- update-pilot-controller**: POST /updatepilot. Description: Update a pilot with the specified First and Last Name and License given a pilot ID primary key value.
- read-ship-controller**: GET /readships. Description: Returns a list of Ships.
- read-pilot-controller**: GET /readpilots. Description: Returns a list of Pilots.
- read-mission-controller**: GET /readmissions. Description: Returns a list of Missions.
- delete-pilot-controller**: DELETE /deletepilots. Description: Deletes pilots based on a first and last name.

A 'Schemas' section is also present, listing the following data models:

- Pilot
- PilotRequest
- Ship
- Mission

Create Pilot Controller with working Put, response 201 Created

create-pilot-controller

PUT /createpilot Creates a pilot with the specified First and Last Name and License

Creates a pilot with the specified First and Last Name and License

Parameters

Cancel

Reset

No parameters

Request body required

application/json

```
{
  "first_name": "Herbert",
  "last_name": "Johnson",
  "license": "1A"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \
  'http://localhost:8080/createpilot' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "first_name": "Herbert",
    "last_name": "Johnson",
    "license": "1A"
  }'
```

Request URL

http://localhost:8080/createpilot

Server response

Code Details

201

Response body

```
{
  "first_name": "Herbert",
  "last_name": "Johnson",
  "license": "1A"
}
```

Response headers

```
connection: keep-alive
content-type: application/json
date: Sat, 12 Feb 2022 21:46:06 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code Description

Links

201

No links

Responses

Code Description

Links

201

A Pilot was created

No links

Media type

application/Json

Controls Accept header.

Example Value Schema

```
{
  "first_name": "string",
  "last_name": "string",
  "license": "string"
}
```

400

The request parameters are invalid

No links

Media type

application/Json

500

An unplanned error occurred

No links

Media type

application/Json

Update Pilot Controller with working POST , response 201 At least one pilot updated.

update-pilot-controller

POST /updatepilot Update a pilot with the specified First and Last Name and License given a pilot ID primary key value

Update a pilot with the specified First and Last Name and License given a pilot ID primary key value

Parameters

Name

Description

pilot_id * required

integer(\$int32)

The pilot id of the pilot to be updated

(query)

4

Cancel

Reset

Request body

required

application/json

```
{
  "first_name": "Fiver",
  "last_name": "Ace",
  "license": "ALL"
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/updatepilot?piot_Id=4' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "first_name": "Fiver",
    "last_name": "Ace",
    "license": "ALL"
  }'
```

Request URL

http://localhost:8080/updatepilot?piot_Id=4

Server response

Code	Details
201	<div><div>Response body</div><pre>{ "first_name": "Fiver", "last_name": "Ace", "license": "ALL" }</pre><div><div>Download</div></div></div> <div><div>Response headers</div><pre>connection: keep-alive content-type: application/json date: Sat, 12 Feb 2022 21:51:09 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div>

Responses

Responses		
Code	Description	Links
201	At least one Pilot was updated	No links
Media type <input type="text" value="application/Json"/>		
Controls Accept header.		
Example Value Schema		
<pre>{ "first_name": "string", "last_name": "string", "license": "string" }</pre>		
400	The request parameters are invalid	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"/>		

Read Ship Controller with working get, response 200 a list of ships is returned.

read-ship-controller

GET /readships Returns a list of Ships

Returns a list of Ships given a ship Name

Parameters

Cancel

Name	Description
name * required string (query)	The name of the ship <input type="text" value="Aegis"/>

Execute

Clear

Responses

Responses		
Curl		
<pre>curl -X 'GET' \ 'http://localhost:8080/readships?name=Aegis' \ -H 'accept: application/json'</pre>		
Request URL		
http://localhost:8080/readships?name=Aegis		
Server response		
Code	Details	
200	Response body	
<pre>{ "name": "Aegis", "pilot_id": 1 }</pre>		
Response headers		
<pre>connection: keep-alive content-type: application/json date: Sat, 12 Feb 2022 21:53:42 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre>		
Responses		
Code	Description	Links
200	A list of Ships is returned	No links
Media type		
<input type="text" value="application/Json"/>		

Example Value | Schema

```

{
  "name": "string",
  "pilot_id": 0
}

```

400
The request parameters are invalid
No links

Media type
application/Json

404
No Ships are found with the input criteria
No links

Media type
application/Json

500
An unplanned error occurred
No links

Media type
application/Json

Read Pilot Controller with working Get, response 200 A list of Pilots is returned.

read-pilot-controller

GET /readpilots Returns a list of Pilots

Returns a list of Pilots given a First or Last Name

Parameters

Cancel

Name	Description
first_name * required string (query)	The first name of the pilot <input type="text" value="Brady"/>
last_name * required string (query)	The last name of the pilot <input type="text" value="Benner"/>

Execute
Clear

Responses

Responses

Curl

```

curl -X 'GET' \
'http://localhost:8080/readpilots?first_name=Brady&last_name=Benner' \
-H 'accept: application/json'

```

Request URL

http://localhost:8080/readpilots?first_name=Brady&last_name=Benner

Server response

Code
Details

200

Response body

```

{
  {
    "first_Name": "Brady",
    "last_Name": "Benner",
    "license": "ALL"
  }
}

```

Download

Response headers

```

connection: keep-alive
content-type: application/json
date: Sat, 12 Feb 2022 21:56:21 GMT
keep-alive: timeout=60
transfer-encoding: chunked

```

Responses		
Code	Description	Links
200	A list of Pilots is returned <div> Media type <input type="text" value="application/Json"/> Controls Accept header. Example Value Schema <div> <pre>{ "first_name": "string", "last_name": "string", "license": "string" }</pre> </div> </div>	No links
400	The request parameters are invalid <div> Media type <input type="text" value="application/Json"/> </div>	No links
404	No Pilots are found with the input criteria <div> Media type <input type="text" value="application/Json"/> </div>	No links
500	An unplanned error occurred <div> Media type <input type="text" value="application/Json"/> </div>	No links

Read Missions Controller with working Get, response 200 A list of Missions is returned.

read-mission-controller

GET /readmissions Returns a list of Missions

Returns a list of Missions given a mission Name

Parameters

NameDescription

name required

string

(query)

The name of the mission

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'http://localhost:8080/readmissions?name=KillKing' \
  -H 'accept: application/json'
```

Request URL

http://localhost:8080/readmissions?name=KillKing

Server response

CodeDetails

200

Response body

```
{
  "name": "KillKing",
  "location": "Saturn"
}
```

Response headers

```
connection: keep-alive
content-type: application/json
date: Sat, 12 Feb 2022 21:57:58 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses		
Code	Description	Links
200	A list of Missions is returned	No links
	<div>Media type</div> <div>application/Json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <pre>{ "name": "string", "location": "string" }</pre>	
400	The request parameters are invalid	No links
	<div>Media type</div> <div>application/Json</div>	
404	No Missions are found with the input criteria	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 Pilot Controller with working Delete, response 200 At least one pilot was deleted.

delete-pilot-controller

DELETE /deletepilots Deletes pilots based on a first and last name

Deletes pilots based on a first and last name

Parameters Cancel

Name	Description
first_name * required string (query)	The first name of the pilot <input type="text" value="Jon"/>
last_name * required string (query)	The last name of the pilot <input type="text" value="Poly"/>

Execute Clear

Responses

Curl

```
curl -X 'DELETE' \
  'http://localhost:8080/deletepilots?first_name=Jon&last_name=Poly' \
  -H 'accept: application/json'
```

Request URL

```
http://localhost:8080/deletepilots?first_name=Jon&last_name=Poly
```

Server response

Code	Details
200	Response body <pre>{}</pre> <div>Download</div>

Response headers

```
connection: keep-alive
content-type: application/json
date: Sat, 12 Feb 2022 22:00:40 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses		
Code	Description	Links
200	At least one Pilot was deleted	No links
<div>Media type</div> <div>application/Json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <pre>{ "first_Name": "string", "last_Name": "string", "license": "string" }</pre>		
400	The request parameters are invalid	No links
<div>Media type</div> <div>application/Json</div>		
404	No Pilots are found with the input criteria	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>		

Pilot Database ERD

