Homework3

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Table of Contents for Test Cases

1. Creating the SportsSearch Lambda and API

2. insertedSport=Baseball&insertedTeam=Rays

3. insertedSport=Baseball&insertedTeam=Orioles

4. insertedSport=Baseball&insertedTeam=Nationals

5. insertedSport=Football&insertedTeam=Ravens

6. insertedSport= Football&insertedTeam=Bills

7. insertedSport= Football&insertedTeam=Buccaneers

8. insertedSport=Hockey&insertedTeam=Capitals

9. insertedSport= Hockey&insertedTeam=Golden Knights

10. insertedSport= Hockey&insertedTeam=Lightning

11. Tests for failure

1. **Creating the SportsSearch Lambda and API**

Figure 1 shows the deploying of the created API con. Figure 2 shows the lambda

connecting the DynamoDB database and the SportsSearch API with the link:

https://4yc4xx569d.execute-api.us-east-1.amazonaws.com/SportSearch.
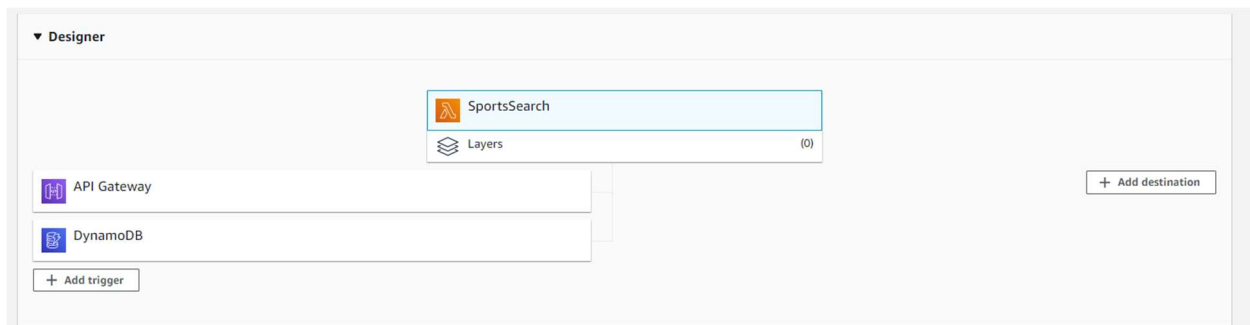

Figure 1, Deploy API

Figure 2, Creating Lambda

2. insertedSport=Baseball&insertedTeam=Rays

Figure 3 shows the successful retrieving of the last four scores for the Rays baseball team with Baseball being used in the insertedSport query and Rays being used in the insertertedTeam query.

and directly invokes your method

Request: /?insertedSport=Baseball&insertedTeam=Rays

Status: 200

Latency: 301 ms

Response Body

```
{
  "message": [
    "Rays lost to the Dodgers 2-4 on Oct 25, 2020",
    "Rays lost to the Dodgers 1-3 on Oct 27, 2020",
    "Rays lost to the Dodgers 2-6 on Oct 23, 2020",
    "Rays beat the Dodgers 8-7 on Oct 24, 2020"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-60356da2-fd84bd8071334c4e4ae16fec;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 3, Rays

3. insertedSport=Baseball&insertedTeam=Orioles

Figure 4 shows the successful retrieving of the last four scores for the Orioles baseball

team with Baseball being used in the insertedSport query and Orioles being used in the

insertertedTeam query.

Request: /?insertedSport=Baseball&insertedTeam=Orioles
Status: 200
Latency: 173 ms
Response Body

```
{
  "message": [
    "Orioles lost to the Blue Jays 2-5 on Sept 26, 2020",
    "Orioles beat the Blue Jays 7-5 on Sept 27, 2020",
    "Orioles beat the Red Sox 13-1 on Sept 24, 2020",
    "Orioles lost to the Blue Jays 5-10 on Sept 25, 2020"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-60356f0b-ecc7c12f15e6f816499ce4f1;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 4, Orioles

4. insertedSport=Baseball&insertedTeam=Nationals

Figure 5 shows the successful retrieving of the last four scores for the Nationals baseball team with Baseball being used in the insertedSport query and Nationals being used in the insertertedTeam query.

Request: /?insertedSport=Baseball&insertedTeam=Nationals
Status: 200
Latency: 287 ms
Response Body

```
{
  "message": [
    "Nationals beat the Mets 15-5 on Sept 27, 2020",
    "Nationals beat the Mets 5-3 on Sept 26, 2020",
    "Nationals lost to the Mets 2-3 on Sept 24, 2020",
    "Nationals beat the Mets 4-3 on Sept 26, 2020"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-60356f95-0379a68979b78bdee818c528;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 5, Nationals

5. insertedSport=Football&insertedTeam=Ravens

Figure 6 shows the successful retrieving of the last four scores for the Ravens football

team with Football being used in the insertedSport query and Ravens being used in the

insertertedTeam query.

Request: /?insertedSport=Football&insertedTeam=Ravens
Status: 200
Latency: 314 ms
Response Body

```
{
  "message": [
    "Ravens beat the Bengals 38-3 on Jan 03, 2021",
    "Ravens beat the Giants 27-13 on Dec 27, 2020",
    "Ravens beat the Titans 20-13 on Jan 10, 2021",
    "Ravens lost to the Bills 3-17 on Jan 16, 2021"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-603570f0-c134ee7c0a53926d16f4131e;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 6, Ravens

6. insertedSport=Football&insertedTeam=Bills

Figure 7 shows the successful retrieving of the last four scores for the Bills football team with Football being used in the insertedSport query and Bills being used in the insertertedTeam query.

Request: /?insertedSport= Football&insertedTeam=Bills

Status: 200

Latency: 304 ms

Response Body

```
{
  "message": [
    "Bills beat the Ravens 17-3 on Jan 16, 2021",
    "Bills beat the Dolphins 56-26 on Jan 03, 2021",
    "Bills lost to the Chiefs 24-38 on Jan 24, 2021",
    "Bills beat the Colts 27-24 on Jan 09, 2021"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-6035719f-ccc9d05320f53674c881e15a;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 7, Bills

7. insertedSport=Football&insertedTeam=Buccaneers

Figure 8 shows the successful retrieving of the last four scores for the Buccaneers football team with Football being used in the insertedSport query and Buccaneers being used in the insertertedTeam query.

```
Request: /?insertedSport= Football&insertedTeam=Buccaneers
Status: 200
Latency: 270 ms
```

Response Body

```
{
  "message": [
    "Buccaneers beat the Saints 30-20 on Jan 17, 2021",
    "Buccaneers beat the Packers 31-26 on Jan 24, 2021",
    "Buccaneers beat the Redskins 31-23 on Jan 09, 2021",
    "Buccaneers beat the Chiefs 31-9 on Feb 7, 2021"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-60357214-062ded44e0bbb5c915b70d6f;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 8, Buccaneers

8. insertedSport=Hockey&insertedTeam=Capitals

Figure 9 shows the successful retrieving of the last four scores for the Capitals hockey team with Hockey being used in the insertedSport query and Capitals being used in the insertertedTeam query.

Request: /?insertedSport=Hockey&insertedTeam=Capitals
Status: 200
Latency: 299 ms
Response Body

```
{
  "message": [
    "Capitals lost to the Rangers 1-4 on Feb 20, 2021",
    "Capitals beat the Penguins 3-1 on Feb 16, 2021",
    "Capitals beat the Sabes 3-1 on Feb 18, 2021",
    "Capitals lost to the Penguins 3-6 on Feb 14, 2021"
  ]
}
```

Response Headers

{"X-Amzn-Trace-Id":"Root=1-6035724b-1850f63249143e22c71bccae;Sampled=0","Content-Type":"application/json"}

Figure 9, Capitals

9. insertedSport=Hockey&insertedTeam=Golden Knights

Figure 10 shows the successful retrieving of the last four scores for the Golden Knights

hockey team with Hockey being used in the insertedSport query and Golden Knights being used

in the insertertedTeam query.

Request: /?insertedSport= Hockey&insertedTeam=Golden Knights
Status: 200
Latency: 301 ms
Response Body

```
{
  "message": [
    "Golden Knights beat the Sharks 3-1 on Feb 13, 2021",
    "Golden Knights lost to the Avalanche 3-2 on Feb 20, 2021",
    "Golden Knights lost to the Avalanche 3-2 on Feb 16, 2021",
    "Golden Knights beat the Avalanche 3-2 on Feb 14, 2021"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-60357304-7c2c74d55b18012df1e9e044;Sampled=0","Content-Type":"applicatio
n/json"}
```

Figure 10, Golden Knights

10. insertedSport=Hockey&insertedTeam=Lightning

Figure 11 shows the successful retrieving of the last four scores for the Lightning hockey team with Hockey being used in the insertedSport query and Lightning being used in the insertertedTeam query.

Request: /?insertedSport= Hockey&insertedTeam=Lightning
Status: 200
Latency: 169 ms
Response Body

```
{
  "message": [
    "Lightning lost to the Panthers 2-5 on Feb 11, 2021",
    "Lightning beat the Panthers 6-1 on Feb 13, 2021",
    "Lightning lost to the Hurricanes 0-4 on Feb 20, 2021",
    "Lightning lost to the Panthers 4-6 on Feb 18, 2021"
  ]
}
```

Response Headers

{"X-Amzn-Trace-Id":"Root=1-6035731a-2f24af9621dce064b2c44882;Sampled=0","Content-Type":"application/json"}

Figure 11, Lightning

11. Tests for failure

Figure 11 shows the prompt from the lambda function, when using Basketball as the insertedSport, telling the user that Basketball is not stored in the database. Figure 12 shows the prompt when a baseball team that is not stored in the database is entered. Figure 13 shows the prompt when a football team that is not stored in the database is entered. Figure 14 shows the prompt when a hockey team that is not stored in the database is entered.

Request: /?insertedSport=Basketball&insertedTeam=Rays
Status: 200
Latency: 46 ms
Response Body

```
{
  "message": [
    "Basketball is not in databse. Please enter a valid sport: ",
    "       Football",
    "       Baseball",
    "       Hockey"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-603584bc-d71e40113e1d9d59dcb54b92;Sampled=0","Content-Type":"application/json"}
```

Figure 11, invalid sport

Request: /?insertedSport=Baseball&insertedTeam=Padres
Status: 200
Latency: 285 ms
Response Body

```
{
  "message": [
    "Padres is not in databse. Please enter a valid Baseball team: ",
    "       Orioles",
    "       Rays",
    "       Nationals"
  ]
}
```

Response Headers

```
{"X-Amzn-Trace-Id":"Root=1-60358649-769f06179bdbf2349abe31bc;Sampled=0","Content-Type":"application/json"}
```

Figure 12, invalid baseball team

Request: /?insertedSport=Football&insertedTeam=Titans
Status: 200
Latency: 109 ms
Response Body

```
{
  "message": [
    "Titans is not in databse. Please enter a valid Football team: ",
    "      Buccaneers",
    "      Ravens",
    "      Bills"
  ]
}
```

Response Headers

{"X-Amzn-Trace-Id":"Root=1-60358676-3bfc1e08b4c9862d1dcf18fc;Sampled=0","Content-Type":"application/json"}

Figure 13, invalid football team

Request: /?insertedSport=Hockey&insertedTeam=Penguins
Status: 200
Latency: 135 ms
Response Body

```
{
  "message": [
    "Penguins is not in databse. Please enter a valid Hockey team: ",
    "      Capitals",
    "      Golden Knights",
    "      Lightning"
  ]
}
```

Response Headers

{"X-Amzn-Trace-Id":"Root=1-603586d9-62bf231b7b5fba6bc22e19a0;Sampled=0","Content-Type":"application/json"}

Figure 14, invalid hockey team

References

MoviesCreateTable.py[Source Code].http://aws.amazon.com/apache2.0/

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