

Chess Rest API

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Restful chess service implemented as part of a code challenge

Errors

Uses conventional HTTP response codes to indicate the success or failure of an API request. In general, codes in the 2XX range indicate success, codes in the 4XX range indicate client errors, and codes in the 5XX range indicate an unexpected error which should be rare or temporary.

Attributes

types	The type of error returned. Can be invalid_request, api_error
status	HTTP status code
errors (Optional)	An array of error objects that give context for the error. Includes code, message, field, and rejected value.

Error Response

```
{
  "status": 400,
  "type": "invalid_request",
  "errors": [
    {
      "code": "NotBlank",
      "message": "may not be empty",
      "field": "whitePlayer",
      "rejectedValue": ""
    }
  ]
}
```

Create Game

Creates a game

Request

Parameter	Description
event	The name of the tournament or match event
site	The location of the event
whitePlayer	The player of the white pieces
blackPlayer	The player of the black pieces

HTTP Request

```
POST /api/chess/game HTTP/1.1
Host: localhost:8080
Content-Type: application/x-www-form-urlencoded

event=Test+Event&site=Test+Site&whitePlayer=Sean&blackPlayer=Mike
```

CURL Request

```
$ curl 'http://localhost:8080/api/chess/game' -i -X POST -d
'event=Test+Event&site=Test+Site&whitePlayer=Sean&blackPlayer=Mike'
```

Response Fields

Path	Type	Description
id	String	Game id
event	String	The name of the tournament or match event
site	String	The location of the event
date	String	The starting date of the game
whitePlayer	Object	The player of the white pieces
blackPlayer	Object	The player of the black pieces
round	Number	The playing round ordinal of the game
result	String	The result of the game
board	Object	The current board
moves	Array	The moves that occurred during the game

HTTP Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 576

{"id":"2300b818-c27c-4221-8b7d-503875dcb9cd","event":"Test Event","site":"Test Site","date":"2017-10-01T14:14:58.365-05:00","round":0,"whitePlayer":{"name":"Sean"},"blackPlayer":{"name":"Mike"},"result":"*","board":{"squares":[[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null]],"moves":[]}}
```

Resign

Allows a player to resign

Path Parameters

/api/chess/game/{gameId}/resign

Parameter	Description
<code>gameId</code>	The id of the game

Request

Parameter	Description
<code>player</code>	The player who is resigning

CURL Request

```
$ curl 'http://localhost:8080/api/chess/game/db1b9e5b-8ac1-4946-9470-04fa75cb320d/resign' -i -X POST -d 'player=Sean'
```

Response Fields

Path	Type	Description
<code>id</code>	String	The id of the game
<code>event</code>	String	The name of the tournament or match event
<code>site</code>	String	The location of the event
<code>date</code>	String	The starting date of the game
<code>whitePlayer</code>	Object	The player of the white pieces
<code>round</code>	Number	The playing round ordinal of the game
<code>blackPlayer</code>	Object	The player of the black pieces
<code>result</code>	String	The result of the game
<code>board</code>	Object	The current board
<code>moves</code>	Array	The moves that occurred during the game

HTTP Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Content-Length: 578
```

```
{"id":"db1b9e5b-8ac1-4946-9470-04fa75cb320d","event":"Test Event","site":"Test Site","date":"2017-10-01T14:14:58.425-05:00","round":0,"whitePlayer":{"name":"Sean"},"blackPlayer":{"name":"Mike"},"result":"0-1","board":{"squares":[[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null]],"moves":[]}}
```

Get Game

Get details for a game

Path Parameters

/api/chess/game/{gameId}

Parameter	Description
<code>gameId</code>	The id of the game

Request

Unresolved directive in api.adoc - include::/Users/seancarroll/workspace/Chess-Rest-Challenge/target/generated-snippets/get-game/request-parameters.adoc[]

CURL Request

```
$ curl 'http://localhost:8080/api/chess/game/f6673800-0b11-47ff-b448-34344e5a3906' -i
```

Response Fields

Path	Type	Description
<code>id</code>	String	Game id
<code>event</code>	String	The name of the tournament or match event
<code>site</code>	String	The location of the event
<code>date</code>	String	The starting date of the game
<code>whitePlayer</code>	Object	The player of the white pieces
<code>blackPlayer</code>	Object	The player of the black pieces

Path	Type	Description
round	Number	The playing round ordinal of the game
result	String	The result of the game
board	Object	The current board
moves	Array	The moves that occurred during the game

HTTP Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
Content-Length: 576

{"id":"f6673800-0b11-47ff-b448-34344e5a3906","event":"Test Event","site":"Test Site","date":"2017-10-01T14:14:57.925-05:00","round":0,"whitePlayer":{"name":"Sean"},"blackPlayer":{"name":"Mike"},"result":"*","board":{"squares":[[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null],[null,null,null,null,null,null,null,null]],"moves":[]}}
```

Move

Execute a move

Path Parameters

/api/chess/game/{gameId}/move

Parameter	Description
gameId	The id of the game

Request

Parameter	Description
san	The players move in SAN (Standard Algebraic Notation)

CURL Request

```
$ curl 'http://localhost:8080/api/chess/game/6ddfaf21-d450-4fe5-86f3-1d7b780908e7/move' -i -X POST -d 'san=e4'
```

Response Fields

Path	Type	Description
id	String	Game id
event	String	The name of the tournament or match event
site	String	The location of the event
date	String	The starting date of the game
whitePlayer	Object	The player of the white pieces
blackPlayer	Object	The player of the black pieces
round	Number	The playing round ordinal of the game
result	String	The result of the game
board	Object	The current board
moves	Array	The moves that occurred during the game

HTTP Response

HTTP/1.1 200 OK

Content-Type: application/json;charset=UTF-8

Content-Length: 596

```
{
  "id": "6ddfaf21-d450-4fe5-86f3-1d7b780908e7",
  "event": "Test Event",
  "site": "Test Site",
  "date": "2017-10-01T14:14:58.277-05:00",
  "round": 0,
  "whitePlayer": {
    "name": "Sean"
  },
  "blackPlayer": {
    "name": "Mike"
  },
  "result": "*",
  "board": {
    "squares": [
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null],
      [null, null, null, null, null, null, null, null]
    ]
  },
  "moves": [
    {
      "pgnMovetext": "e4"
    }
  ]
}
```