

Concordia University

CSC 6210: Advanced Web Technologies

Fall 2025

Postman Part-2 Assignment

Manchester United Players API

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A Node.js, Express, and MongoDB API for managing Manchester United
players, tested with Postman

[illegible]

The image shows a VS Code editor window with a file named `multi_players.json` open. The file contains a Mongoose schema for a player. The schema is defined in the `models` directory, specifically in `playerModels.js`. The schema includes fields for `name`, `shirt`, `role`, `age`, `nationality`, `appearances`, and `goals`, each with specific validation rules.

```
const mongoose = require('mongoose');
const Schema = mongoose.Schema;

const playerSchema = new Schema({
  name: {
    type: String,
    required: [true, 'Player name is required'],
    trim: true,
    minlength: [2, 'Name must be at least 2 characters'],
    match: [/^[a-zA-Z\s]+$/, 'Name must contain only letters and spaces']
  },
  shirt: {
    type: Number,
    required: [true, 'Shirt number is required'],
    min: [0, 'Shirt number cannot be negative'],
    max: [99, 'Shirt number cannot exceed 99'],
    unique: true
  },
  role: {
    type: String,
    required: [true, 'Role is required'],
    enum: {
      values: ['goalkeeper', 'defender', 'midfielder', 'forward'],
      message: 'VALUE is not a valid role'
    },
    lowercase: true
  },
  age: {
    type: Number,
    required: [true, 'Age is required'],
    min: [16, 'Age must be at least 16'],
    max: [50, 'Age cannot exceed 50']
  },
  nationality: {
    type: String,
    required: [true, 'Nationality is required'],
    trim: true,
    minlength: [2, 'Nationality must be at least 2 characters']
  },
  appearances: {
    type: Number,
    required: [true, 'Appearances is required'],
    min: [0, 'Appearances cannot be negative']
  },
  goals: {
    type: Number,
    required: [true, 'Goals is required'],
    min: [0, 'Goals cannot be negative']
  }
});
```

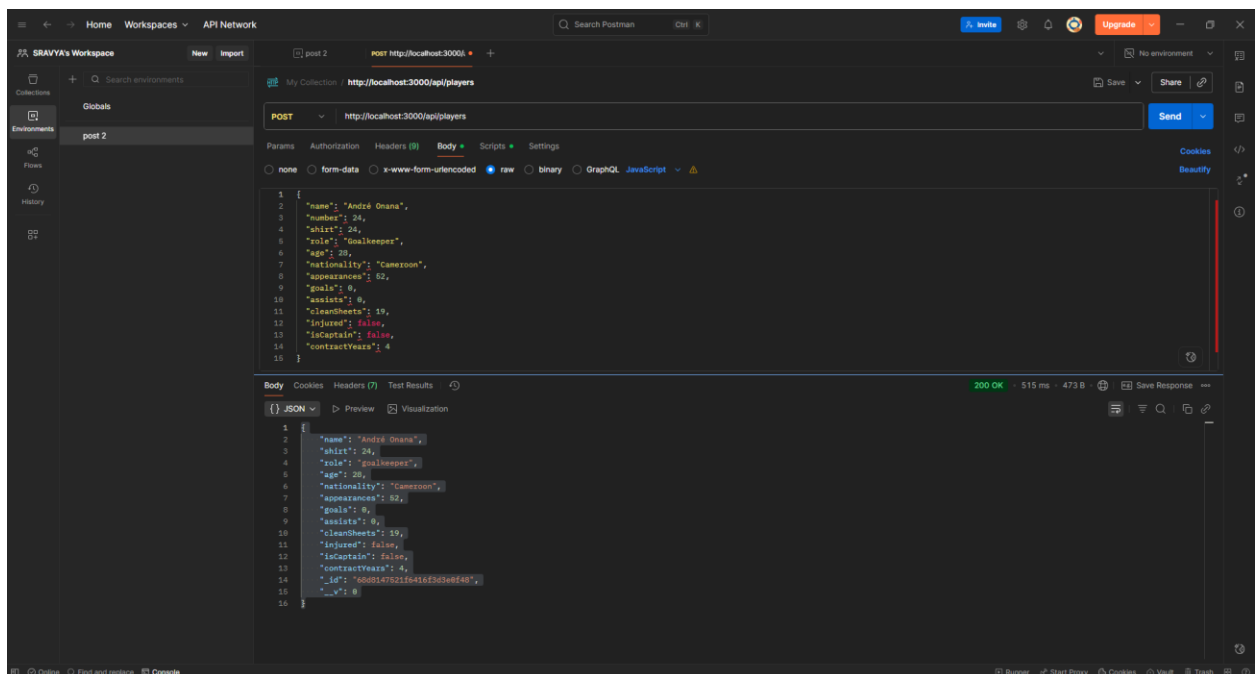


```
}
```

- Response: Status 200 OK, JSON like:

json

```
{
  "_id": "66f...",
  "name": "André Onana",
  "shirt": 24,
  "role": "goalkeeper",
  "age": 28,
  "nationality": "Cameroon",
  "appearances": 52,
  "goals": 0,
  "assists": 0,
  "cleanSheets": 19,
  "injured": false,
  "isCaptain": false,
  "contractYears": 4,
  "__v": 0
}
```



```
localhost:3000/api/players

Pretty-print ✓

[
  {
    "_id": "68d8099208243a16e8685e80",
    "name": "André Onana",
    "shirt": 24,
    "role": "goalkeeper",
    "age": 28,
    "nationality": "Cameroon",
    "appearances": 52,
    "goals": 0,
    "assists": 0,
    "cleanSheets": 19,
    "injured": false,
    "isCaptain": false,
    "contractYears": 4,
    "__v": 0
  }
]
```

Validation Test :

json

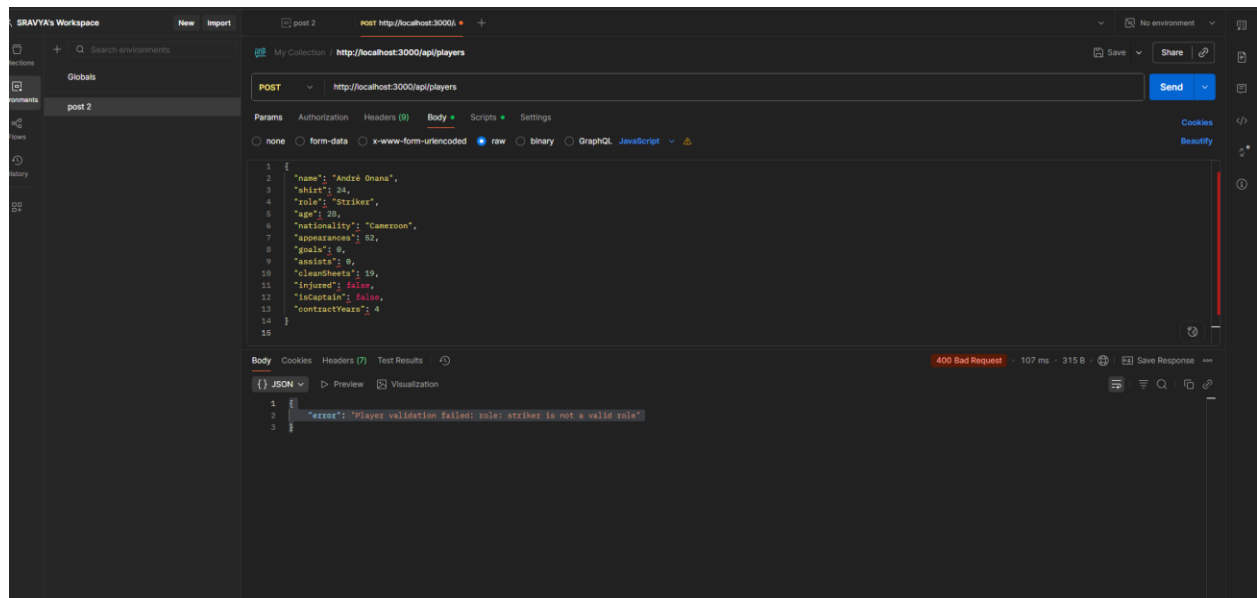
```
{
  "name": "André Onana",
  "shirt": 24,
  "role": "Striker",
```

```

    "age": 28,
    "nationality": "Cameroon",
    "appearances": 52,
    "goals": 0,
    "assists": 0,
    "cleanSheets": 19,
    "injured": false,
    "isCaptain": false,
    "contractYears": 4
  }
}

```

400 Bad Request: {"error":"Striker is not a valid role"}.



□ GET Request (All Players):

- Method: GET
- URL: `http://localhost:3000/api/players`
- Body: None
- Response: Status 200 OK, JSON array like:

json

```

[
  {

```

```
    "_id": "66f...",
    "name": "André Onana",
    "shirt": 24,
    "role": "goalkeeper",
    "age": 28,
    "nationality": "Cameroon",
    "appearances": 52,
    "goals": 0,
    "assists": 0,
    "cleanSheets": 19,
    "injured": false,
    "isCaptain": false,
    "contractYears": 4,
    "__v": 0
  }
]
```

Home Workspaces API Network Search Postman CH X

SBMTA's Workspace New Import

Global post 2

My Collection Get All Players

GET http://localhost:3000/api/players

Params Authorization Headers Body Scripts Settings

Pre-request // Visualization Script // Visualization Script

Post-request const template =

Body Cookies Headers Test Results

JSON Preview Visualization

200 OK 117 ms 3.24 KB Save Response

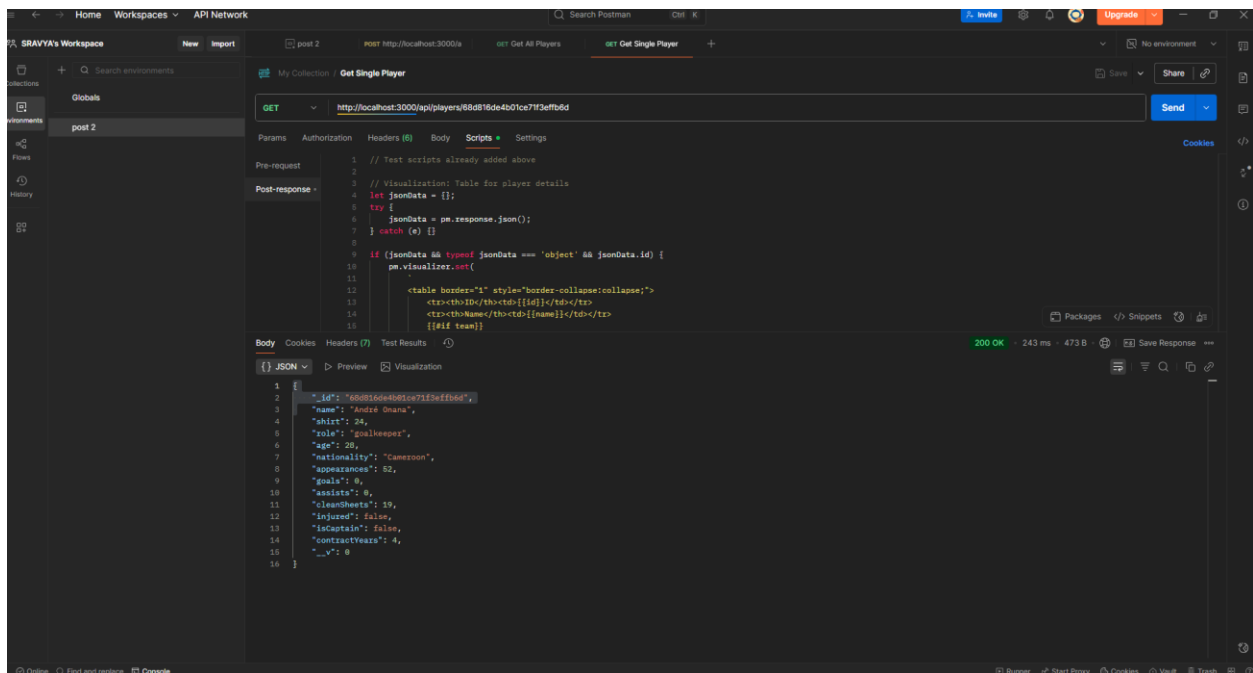
```
1 {
2   "_id": "5b016e4b0c71f3e0f0e0",
3   "name": "Kerik Smith",
4   "weight": 24,
5   "role": "goalkeeper",
6   "age": 28,
7   "nationality": "Swedish",
8   "experience": 12,
9   "goals": 0,
10  "assists": 0,
11  "cleanSheets": 15,
12  "injured": false,
13  "isCaptain": false,
14  "contractYears": 4,
15  "___v": 0
16 }
17
18 {
19   "_id": "5b016e4b0c71f3e0f0e1",
20   "name": "Ringo White",
21   "weight": 28,
22   "role": "defender",
23   "age": 26,
24   "nationality": "Portuguese",
25   "experience": 10,
26   "goals": 2,
27   "assists": 4,
28   "cleanSheets": 14,
29   "injured": false,
30   "isCaptain": false,
31   "contractYears": 3,
32   "___v": 0
33 }
34
35 {
36   "_id": "5b016e4b0c71f3e0f0e2",
```


Pretty-print ✓

```
[
  {
    "_id": "68d816de4b01ce71f3effb6d",
    "name": "André Onana",
    "shirt": 24,
    "role": "goalkeeper",
    "age": 28,
    "nationality": "Cameroon",
    "appearances": 52,
    "goals": 0,
    "assists": 0,
    "cleanSheets": 19,
    "injured": false,
    "isCaptain": false,
    "contractYears": 4,
    "__v": 0
  },
  {
    "_id": "68d816de4b01ce71f3effb6e",
    "name": "Diogo Dalot",
    "shirt": 20,
    "role": "defender",
    "age": 25,
    "nationality": "Portugal",
    "appearances": 46,
    "goals": 2,
    "assists": 6,
    "cleanSheets": 14,
    "injured": false,
    "isCaptain": false,
    "contractYears": 3,
    "__v": 0
  },
  {
    "_id": "68d816de4b01ce71f3effb6f",
    "name": "Lisandro Martínez",
    "shirt": 6,
    "role": "defender",
    "age": 26,
    "nationality": "Argentina",
    "appearances": 23,
    "goals": 1,
    "assists": 1,
    "cleanSheets": 10,
    "injured": true,
    "isCaptain": false,
    "contractYears": 3,
    "__v": 0
  },
  {
    "_id": "68d816de4b01ce71f3effb70",
    "name": "Raphaël Varane",
    "shirt": 19,
    "role": "defender",
    "age": 31,
    "nationality": "France",
    "appearances": 32,
    "goals": 1,
    "assists": 0,
    "cleanSheets": 13,
    "injured": false,
    "isCaptain": false,
    "contractYears": 1,
    "__v": 0
  },
  {
    "_id": "68d816de4b01ce71f3effb71",
    "name": "Luke Shaw",
    "shirt": 23,
    "role": "defender",
    "age": 29,
    "nationality": "England",
    "appearances": 21,
    "goals": 0,
    "assists": 3,
    "cleanSheets": 9,
    "injured": true,
    "isCaptain": false,
    "contractYears": 2,
    "__v": 0
  },
  {
    "_id": "68d816de4b01ce71f3effb72",
    "name": "Casemiro",
    "shirt": 18,
    "role": "midfielder",
    "age": 32,
    "nationality": "Brazil",
    "appearances": 39,
    "goals": 6,
    "assists": 3,
    "cleanSheets": 11,
    "injured": false,
    "isCaptain": false,
    "contractYears": 2,
    "__v": 0
  },
  {
    "_id": "68d816de4b01ce71f3effb73",
    "name": "Bruno Fernandes",
    "shirt": 8,
    "role": "midfielder",
    "age": 30,
    "nationality": "Portugal",
    "contractYears": 3,
    "goals": 10,
    "assists": 10,
    "cleanSheets": 0,
    "injured": false,
    "isCaptain": true,
    "contractYears": 3,
    "__v": 0
  }
]
```

□ GET Request (Single Player):

- Method: GET
- URL:
`http://localhost:3000/api/players/68d816de4b01ce71f3effb6e`
- Body: None
- Response: Status 200 OK, JSON of the player.



□ PATCH Request:

- Method: PATCH
- URL: `http://localhost:3000/api/players/68d816de4b01ce71f3effb6d`
- Body:

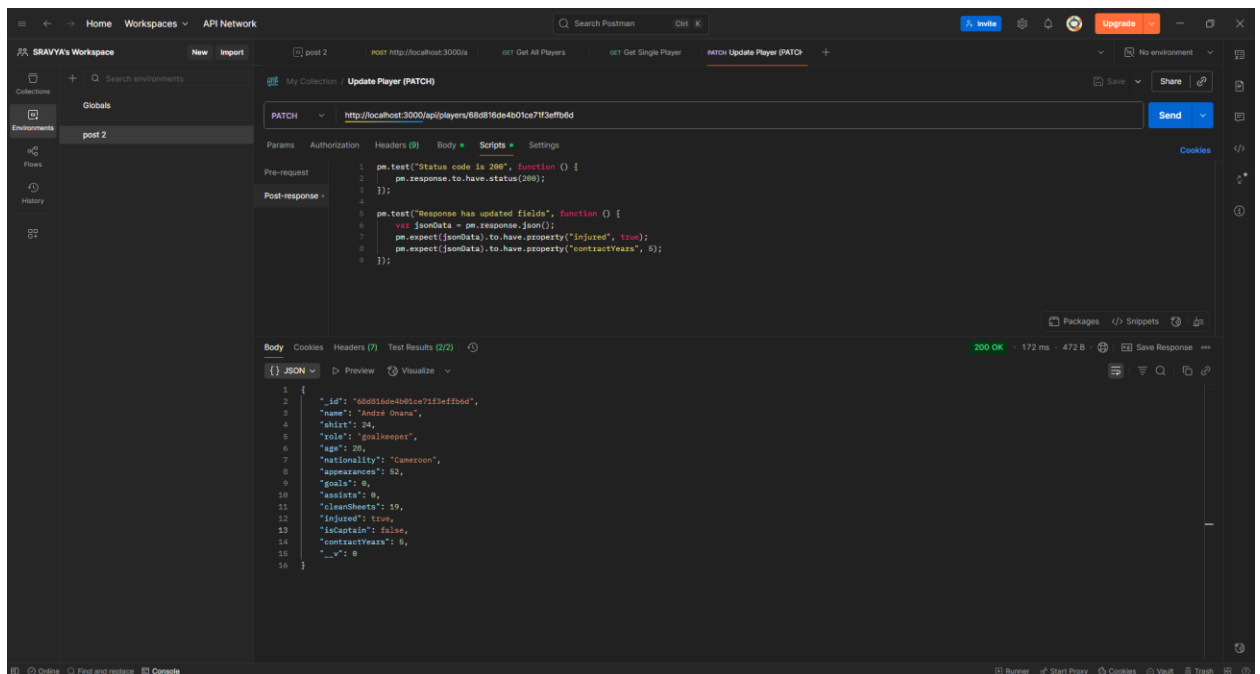
json

```
{  
  "injured": true,  
  "contractYears": 5  
}
```

- Response: Status 200 OK, updated JSON like:

json

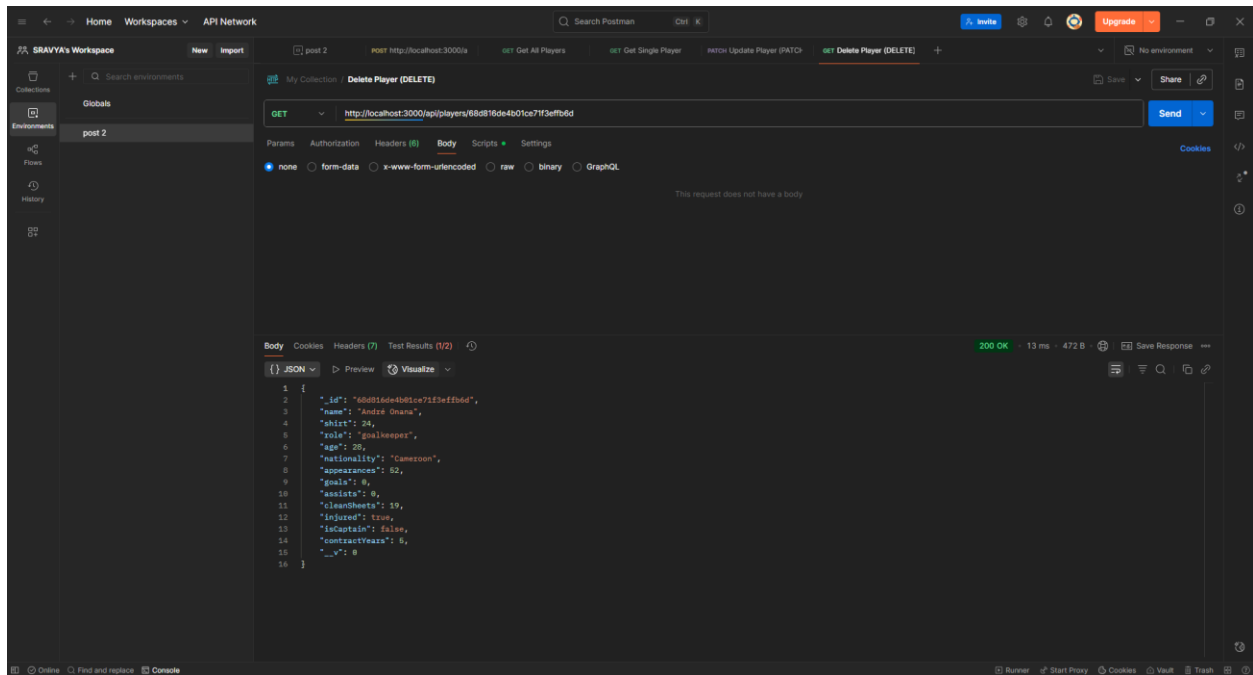
```
{
  "_id": "66f...",
  "name": "André Onana",
  "shirt": 24,
  "role": "goalkeeper",
  "age": 28,
  "nationality": "Cameroon",
  "appearances": 52,
  "goals": 0,
  "assists": 0,
  "cleanSheets": 19,
  "injured": true,
  "isCaptain": false,
  "contractYears": 5,
  "__v": 0
}
```



❑ DELETE Request:

- Method: DELETE

- URL: `http://localhost:3000/api/players/68d816de4b01ce71f3effb6d`
- Body: None
- Response: Status 200 OK, deleted JSON.



□ Add More Players:

json

```

{
  "name": "Bruno Fernandes",
  "shirt": 8,
  "role": "Midfielder",
  "age": 30,
  "nationality": "Portugal",
  "appearances": 53,
  "goals": 15,
  "assists": 12,
  "cleanSheets": 12,
  "injured": false,
  "isCaptain": true,
  "contractYears": 3
}

```

}

SBAAVYA'S Workspace

Home Workspaces API Network

Search Postman

post 2 post http://localhost:3000/a set Get All Players set Get Single Player Patch Update Player (PATCH) set Delete Player (DELETE) **POST Add Player (POST)**

POST http://localhost:3000/api/players

Params Authorization Headers (9) Body **raw** Scripts Settings

Body

```
1 {
2   "name": "Bruno Fernandes",
3   "shirt": 81,
4   "role": "Midfielder",
5   "age": 30,
6   "nationality": "Portugal",
7   "appearances": 63,
8   "goals": 16,
9   "assists": 12,
10  "cleanSheets": 12,
11  "injured": false,
12  "isCaptain": true,
13  "contractYears": 3
14 }
15
```

200 OK · 16 ms · 477 B

Body Cookies Headers (7) Test Results

JSON Preview Visualization

```
1 {
2   "name": "Bruno Fernandes",
3   "shirt": 81,
4   "role": "Midfielder",
5   "age": 30,
6   "nationality": "Portugal",
7   "appearances": 63,
8   "goals": 16,
9   "assists": 12,
10  "cleanSheets": 12,
11  "injured": false,
12  "isCaptain": true,
13  "contractYears": 3,
14  "_id": "60d81ab32adceda2f8cfcf3",
15  "_v": 0
16 }
```

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