

UNIVERSITY OF THE ARMED FORCES ESPE

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Course: Web Application Development - 5450

EXAM 1

Design and implement one GET Web service (REST) that gets information from a MongoDB Atlas Database for the following problem: A company X has a system currently running, among other data, its system stores information about (The topic is according to your number in the roster (list)). You must think in at least 4 attributes for your element. A web client and a JSP pages (nodeJS is other option) are also needed to insert the information into the database (MongoDB Atlas).

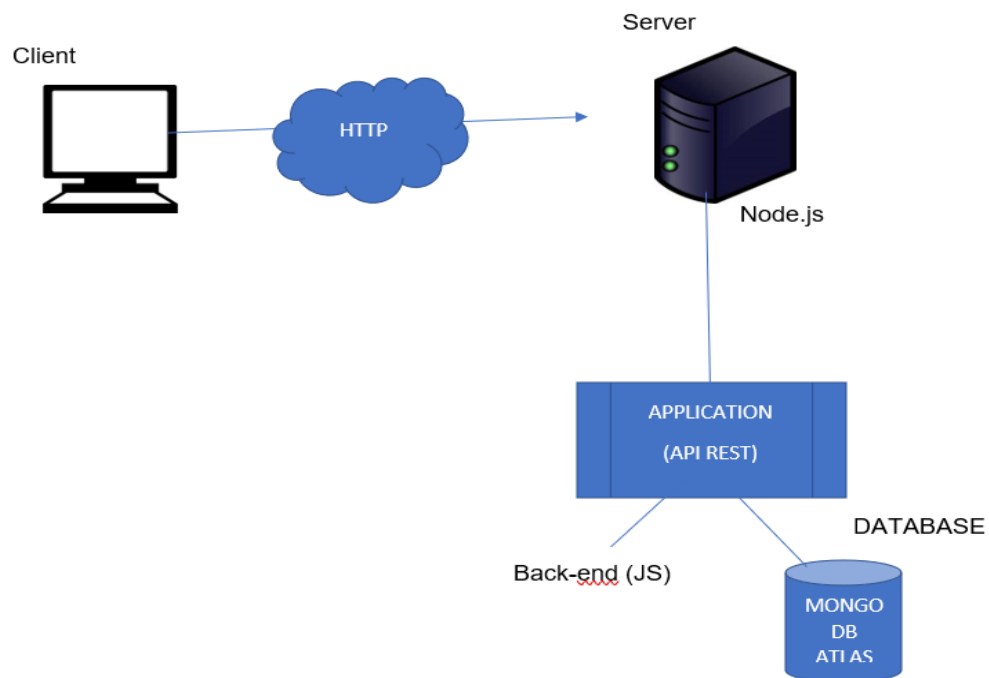
Note. For Database management purposes. Please create a collection in your MongoDB Atlas cluster according to your topic. Even numbers will design and program the REST services, Odd numbers will design and implement the Form and the JSP(PHP/nodeJS) pages, even numbers will design and program the REST service. Everyone must design the architecture of the correspondent system. If you are programming the REST service, you can enter data into MongoDB manually. If you are programming the Web application, you only need to program the insert action. Both (even and odd) must present proof of your data in the cloud.

Rubric (Even numbers- 8 FLORES MEDRANO PAMELA LISSETTE-8 Soccer Teams)

- 1. Architecture design:5 points.**
- 2. URI design:5 points.**
- 3. REST Service:10 points.**
- 4. Database data:5 points.**
- 5. Clean Code:5 points.**

Once, the Service and the pages are implemented, upload the files in a zip file here in ESPE-Educativa containing your code and a Word Document (or PDF) containing your answers, execution, and DB data. Screenshots of the execution should be uploaded to Google Docs in a google doc document in the correspondent folder, and the code should be committed into GitHub (<https://github.com/elascano/ESPE202205-WEB-TI-5450>) inside a folder /exams/yourlastname/unit1. Please create a folder with your last name and your topic, for example: LascanoErasers, the same applies for the zip file that you must upload to ESPE educativa, for example LascanoErasers.zip

1. Architecture design:5 points.



2. URI design:5 points.

| | |
|------------|---|
| Method | GET |
| URI | http://localhost:3000/api/soccerteam |
| Parameters | <pre>{ "_id": ObjectId, "teamName": String, "coachName": String, "wonGames": Number, "achievements": String }</pre> |
| Format | JSON |
| Deploy | <pre>{ "_id": " 62b65c6c113d4246b6b8e7a6", "teamName": "FC Barcelona", "coachName": "Xavi Hernandez", "wonGames": 500, "achievements": "Copa del Rey" }</pre> |

3. REST Service:10 points.

The screenshot shows a web browser at `localhost:3000/api/soccerteam` displaying a JSON array of three soccer teams. Below the browser, the Postman interface shows a GET request to `http://localhost:3000/api/soccerteam` with a 200 OK status. The response body is a JSON array of three team objects.

```
[{"_id": "62b65c6c113d4246b6b8e7a6", "teamName": "FC Barcelona", "couchName": "Xavi Hernández", "wonGames": 500, "achievements": "Copa del Rey", "__v": 0}, {"_id": "62b65cd2113d4246b6b8e7a9", "teamName": "Real Madrid", "couchName": "Carlo Ancelotti", "wonGames": 450, "achievements": "Supercopa de Europa", "__v": 0}, {"_id": "62b65d4d113d4246b6b8e7ac", "teamName": "Liverpool", "couchName": "Jurgen Klopp", "wonGames": 450, "achievements": "FA Cup", "__v": 0}]
```

4. Database data:5 points.

The screenshot shows the MongoDB Atlas interface. The left sidebar shows the navigation menu with 'Database' selected. The main panel shows the 'soccerteams.soccerteams' collection. The 'Find' tab is active, showing a query filter of `{ field: 'value' }`. The query results show three documents, each representing a soccer team.

```
{ "_id": "62b65c6c113d4246b6b8e7a6", "teamName": "FC Barcelona", "couchName": "Xavi Hernández", "wonGames": 500, "achievements": "Copa del Rey", "__v": 0 }
{ "_id": "62b65cd2113d4246b6b8e7a9", "teamName": "Real Madrid", "couchName": "Carlo Ancelotti", "wonGames": 450, "achievements": "Supercopa de Europa", "__v": 0 }
{ "_id": "62b65d4d113d4246b6b8e7ac", "teamName": "Liverpool", "couchName": "Jurgen Klopp", "wonGames": 450, "achievements": "FA Cup", "__v": 0 }
```

cloud.mongodb.com/v2/6296d3824500ed5e80c5a29f#metrics/replicaSet/62ab8f7946410d60237425a7/explorer/soccerteams/s...

PAMELA LIS... Access Manager Billing All Clusters Get Help PAMELA LISSETTE

Project 0 Atlas App Services Charts

DEPLOYMENT Database Data Lake PREVIEW DATA SERVICES Triggers Data API Data Federation SECURITY Database Access Network Access Advanced

+ Create Database

Search Namespaces

database

soccerteams

data

soccerteams

soccerteams.soccerteams

STORAGE SIZE: 36KB TOTAL DOCUMENTS: 3 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

INSERT DOCUMENT

FILTER { field: 'value' } OPTIONS Apply Reset

```

{
  "wonGames": 450,
  "achievements": "Supercopa de Europa",
  "_v": 0
}

```

> { _id: ObjectId("62b65d4d113d4246b6b8e7ac"), TeamName: "Liverpool", coachName: "Jurgen Klopp", wonGames: 450, achievements: "FA Cup", _v: 0 }

System Status: All Good

5. Clean Code:5 points.