

Project: Transformers (API Restful)

This Web project was built with Maven, Java8, SpringBoot, Swagger, and Junit.

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Steps to build and start the project

- 1-) Go to GitHub through the link: <https://github.com/marcosdeveloper/Transformers>
- 2-) Download the project as ZIP;
- 3-) Unzip the content;
- 4-) Access the terminal/MS-DOS;
- 5-) Go to the root folder of the project (where is the pom file and where the project was unzipped);
- 6-) Execute the command: **mvn install**; It **builds** the project, installs all the dependencies and executes all the unit tests;
- 7-) After that, execute the command: **mvn spring-boot:run**; It initializes the project on 8080 port;
- 8-) If everything is ok, access the url: <http://localhost:8080/swagger-ui.html>. The Swager documentation of REST services will open.
- 9-) Open Postman and do the call methods. Examples:

Using **Post** method and url: **localhost:8080/transformer/**, pass this JSON on the body of the request.

```
{
  "name": "Bluestreak",
  "teamMember": "A",
  "strenght": 6,
  "intelligence": 6,
  "speed": 7,
  "endurance": 9,
  "rank": 5,
  "courage": 2,
  "firepower": 9,
  "skill": 7
}
```

Using **Post** method and url: **localhost:8080/transformer/**, pass this JSON on the body of the request.

```
{
  "name": "Hubcap",
  "teamMember": "A",
  "strenght": 4,
  "intelligence": 4,
  "speed": 4,
  "endurance": 4,
  "rank": 4,
  "courage": 4,
}
```

```
    "firepower":4,  
    "skill":4  
}
```

Using **Post** method and url: **localhost:8080/transformer/**, pass this JSON on the body of the request.

```
{  
    "name": "Soundwave",  
    "teamMember": "D",  
    "strenght": 8,  
    "intelligence": 9,  
    "speed":2,  
    "endurance":6,  
    "rank":7,  
    "courage":5,  
    "firepower":6,  
    "skill":10  
}
```

10-) To get the results after the battle, execute:

Get method and url: **localhost:8080/battle**

Then, the return should be:

```
{  
    "numberOfBattles": 1,  
    "winningTeam": "Decepticons",  
    "listOfWinningTeam": [  
        {  
            "name": "Soundwave",  
            "teamMember": "D",  
            "strenght": 8,  
            "intelligence": 9,  
            "speed": 2,  
            "endurance": 6,  
            "rank": 7,  
            "courage": 5,  
            "firepower": 6,  
            "skill": 10,  
            "alreadyInTheBattle": true,  
            "loserOrWinning": "W",  
            "overallRating": 31  
        }  
    ],  
    "losingTeam": "Autobots",  
    "listOfSurvivalLosingTeam": [  
        {  
            "name": "Hubcap",
```

```
"teamMember": "A",
"strenght": 4,
"intelligence": 4,
"speed": 4,
"endurance": 4,
"rank": 4,
"courage": 4,
"firepower": 4,
"skill": 4,
"alreadyInTheBattle": false,
"loserOrWinning": null,
"overallRating": 20
}
]
}
```