



RESTFUL APIS AND PUBLIC APIS

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01 - RESTFUL API

A student grade system using HTML, CSS, and JS for the front-end and PHP with MySQL for the back-end, used Ajax for transferring data as a JSON file

02 - PUBLIC API

A Car library system, the user can search for a car model and the website will show all results, using HTML, CSS, and JS, with public API no need for a back-end since we just need to send a request from js.

03 - POSTMANE

Postmane is used for testing URLs with methods, I used it extensively in the Restful API, and to test the public API.

RESTFUL API

- A Restful API is software style that is used in web development, that state:
 - Data can have multiple forms.
 - Resources are identified by resources.
 - Uses HTTP methods.
 - The way of communication between clients and server is the same between all .
 - Each request must contains all needed information.
- The user can add students and their grades and edit each student name and grade and delete student from the table.

Student Grades

Add

Refresh

| Student Name | Math | Science | History | | |
|--------------|------|---------|---------|-----------------|-------------------|
| ibrahim | 90% | 86% | 79% | <div>Edit</div> | <div>Delete</div> |
| adham | 88% | 81% | 75% | <div>Edit</div> | <div>Delete</div> |
| Mahmoud | 88% | 67% | 87% | <div>Edit</div> | <div>Delete</div> |
| Omar | 78% | 80% | 90% | <div>Edit</div> | <div>Delete</div> |

Student Grades

Add

Refresh

| Student Name | Math | Science | History | | |
|--------------|------|---------|---------|-----------------|-------------------|
| ibrahim | 90% | 86% | 79% | <div>Edit</div> | <div>Delete</div> |
| adham | 88% | 81% | 75% | <div>Edit</div> | <div>Delete</div> |
| Mahmoud | | | | | <div>Delete</div> |
| Omar | | | | | <div>Delete</div> |

Add a Student

Ibrahim, Adham, Mahmoud,

50%, 80%, etc.....

50%, 80%, etc.....

50%, 80%, etc.....

Submit

Cancel

PUBLIC API

- A public API makes developing a web page much easier by providing a back-end, that revives requested and processes them then sends back information or data in response to the request.
- The public API provides also a documentation for the user to read, so the user can figure out how to use the API.
- The user can search for a specific car model, when the user press search a list will show with a potential results, the model, year, class, and a small discription

Car Docs

Welcome to Car Docs! Search for details about your favorite Cars.

Model: tesla model x awd - 90d

Year: 2016

Class: standard sport utility vehicle

This car is a awd standard sport utility vehicle with a undefined cylinders engine.

Model: tesla model x awd - p90d

Year: 2016

Class: standard sport utility vehicle

This car is a awd standard sport utility vehicle with a undefined cylinders engine.

Model: tesla model x awd - 75d

Year: 2016

Class: standard sport utility vehicle

This car is a awd standard sport utility vehicle with a undefined cylinders engine.

Model: tesla model x awd - 60d

Year: 2016

Class: standard sport utility vehicle

This car is a awd standard sport utility vehicle with a undefined cylinders engine.

Model: tesla model x awd - p100d

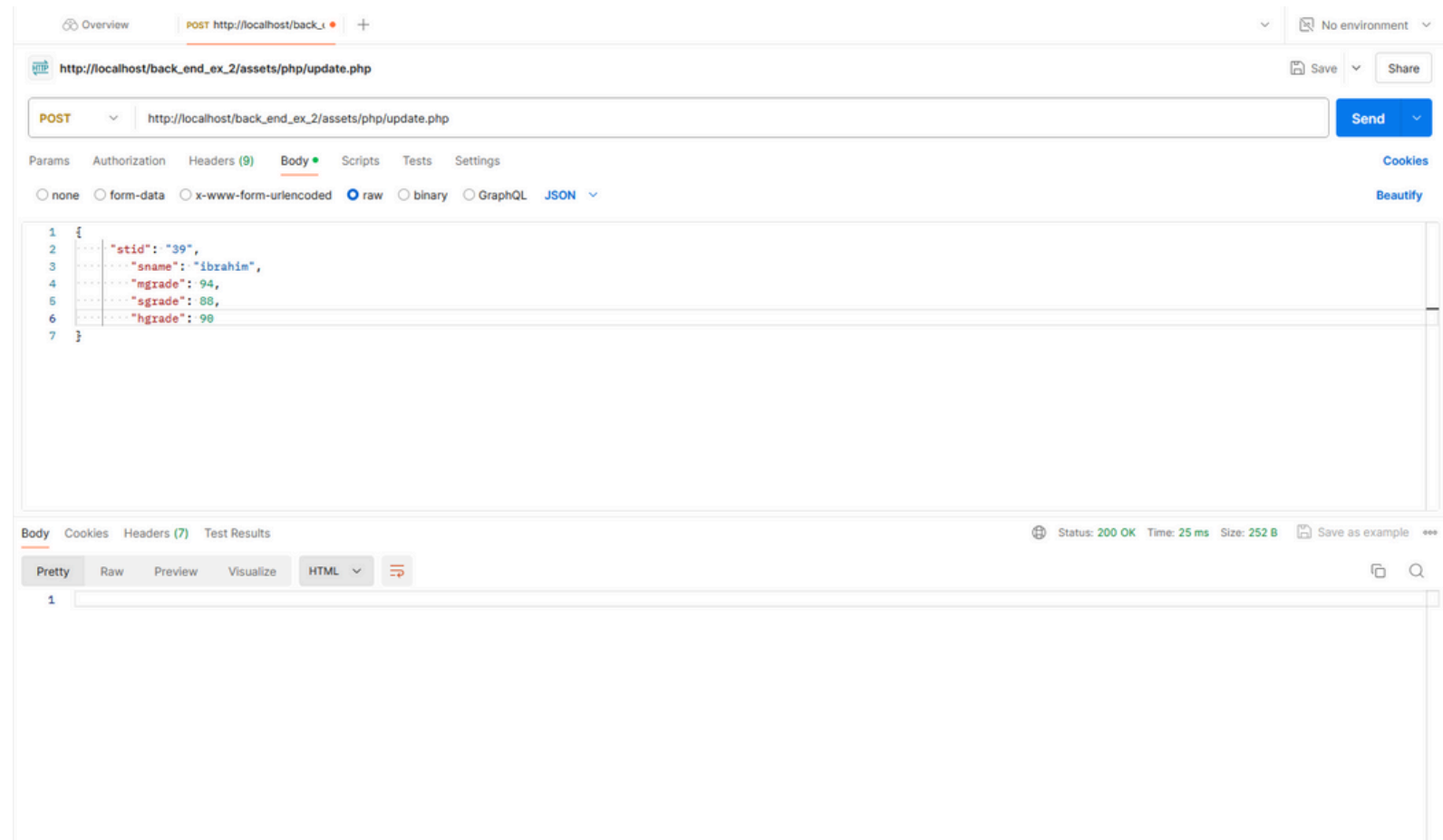
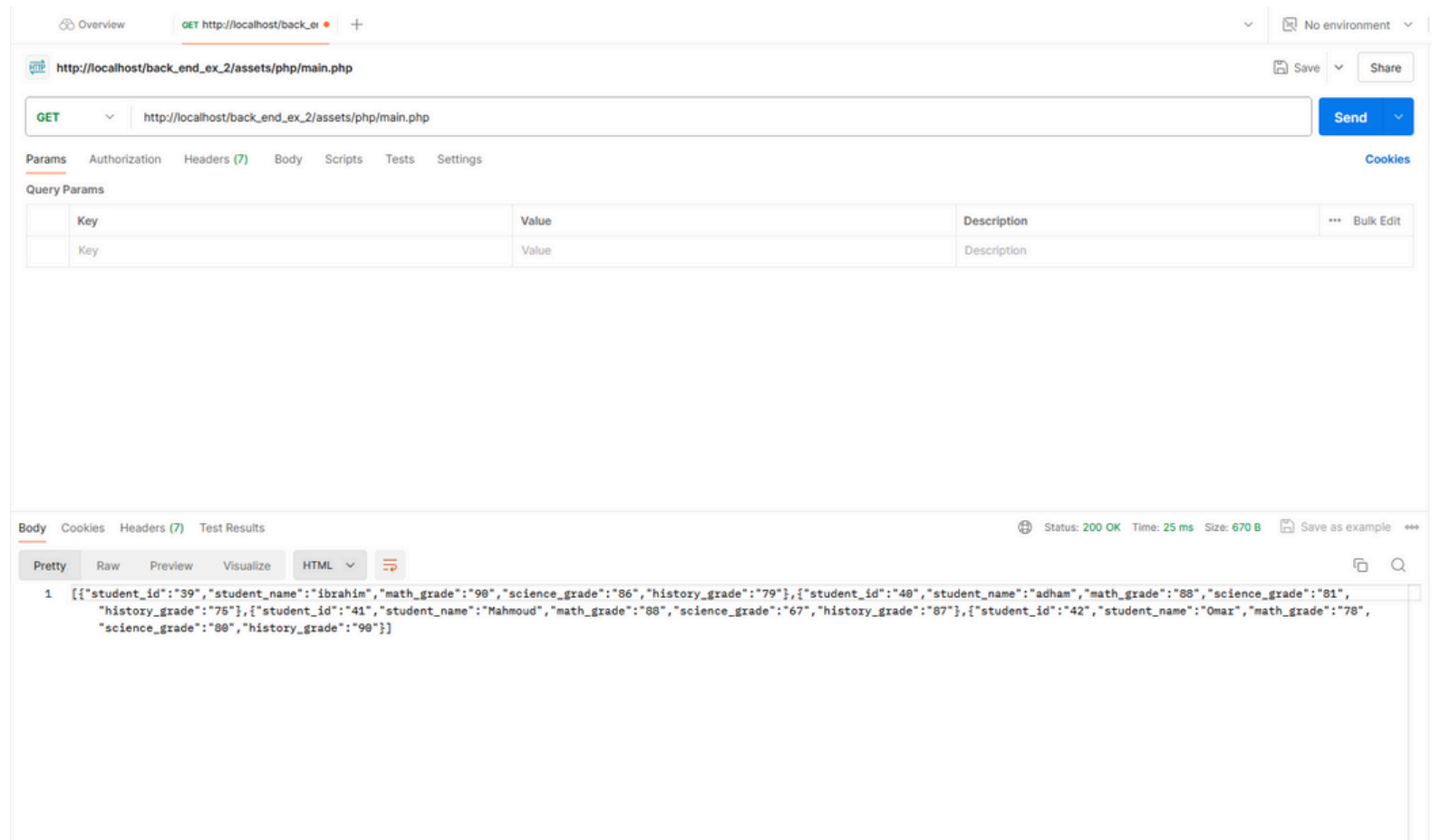
Year: 2016

Class: standard sport utility vehicle

This car is a awd standard sport utility vehicle with a undefined cylinders engine.

POSTMANE

Postmane is an API platform for testing APIs, I used it for both tasks, but it was mostly helpful for the restful API task, I needed it to make sure that my PHP code was correct.



The background features four decorative geometric patterns in the corners. The top-left corner has a series of parallel diagonal lines in a light blue-grey color. The top-right corner contains a cluster of overlapping semi-circles in yellow, red, and teal. The bottom-left corner features a similar cluster of overlapping semi-circles in red, teal, and dark blue. The bottom-right corner has a large, faint semi-circle outline with several parallel diagonal lines inside it, matching the top-left pattern.

THANK YOU