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Explained



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CREATE

DELETE

new item

Item 1



Item 2



UPDATE

READ

Item 5

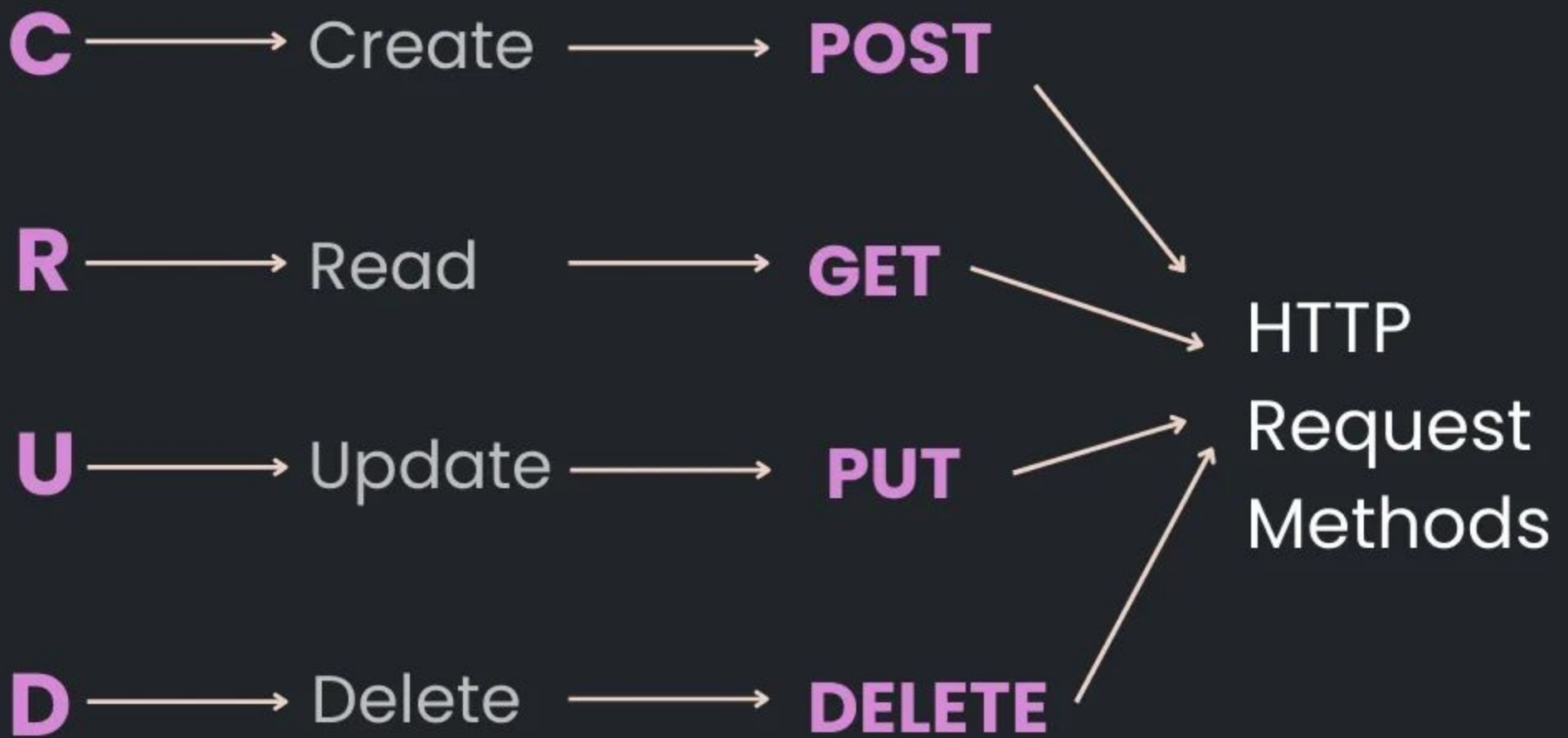
Update



What is CRUD?

- CRUD stands for Create, Read/Retrieve, Update and Delete which represents the four basic operations you can do on any data stored in an application.
- You can create something new, read or view the newly created data, edit or update the data and finally the option to delete it.
- CRUD is data-oriented and the standardized use of HTTP methods.





CRUD Functions

When working with web services, CRUD corresponds to the HTTP methods, which communications to a web server how you want to interact with a website or web applications



Create

- It means creating an entry. This entry could be an account, user information, a post, or a task.
- When we submit the data using forms, a POST requested is sent to our API and data will be stored in the database.
- The HTTP protocol that implements a CREATE operation is the POST method.

Example

The route for GET request

```
/appointments/new
```



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Read

- The READ operation means getting access to the inputs or entries in the UI. That is, seeing it.
- Again, the entry could be anything from user information to social media posts, and others.
- The HTTP protocol that implements a READ operation is the GET method.

Example

The route for GET request

```
/appointments
```



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Update

- UPDATE is the operation that allows you to modify existing data. That is, editing the data.
- PUT and PATCH are the HTTP protocols with which you can implement an UPDATE operation, depending on what you need.
- PUT should be used when you want the entire entry updated, and PATCH if you don't want the entire entry to be modified.

Example

The route for PUT request

```
/appointments/:id
```

id in the route specifies which entry in the record needs to be updated



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Delete

- To delete is to get rid of an entry from the UI and the database.
- DELETE is the HTTP protocol for implementing a DELETE operation.
- To delete any record, each entry has a unique id and the id in the request below identifies the specific record to be removed from the database.

Example

The route for DELETE request

```
/appointments/:id
```



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