

Intro to web Development

Welcome to our first session of web development !



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- Baby Steps with violin
- Huge fan of "HIMYM"





● **Ice Breaker**

Small game to break the ice and get to know each other more.

● **101 internet**

Understand how the internet works.

● **What's poppin?**

Understand the content of this training.

● **Resources**

We will try to share some useful links.

● **Roadmaps**

Check on different web development roadmaps

● **Kahoot**

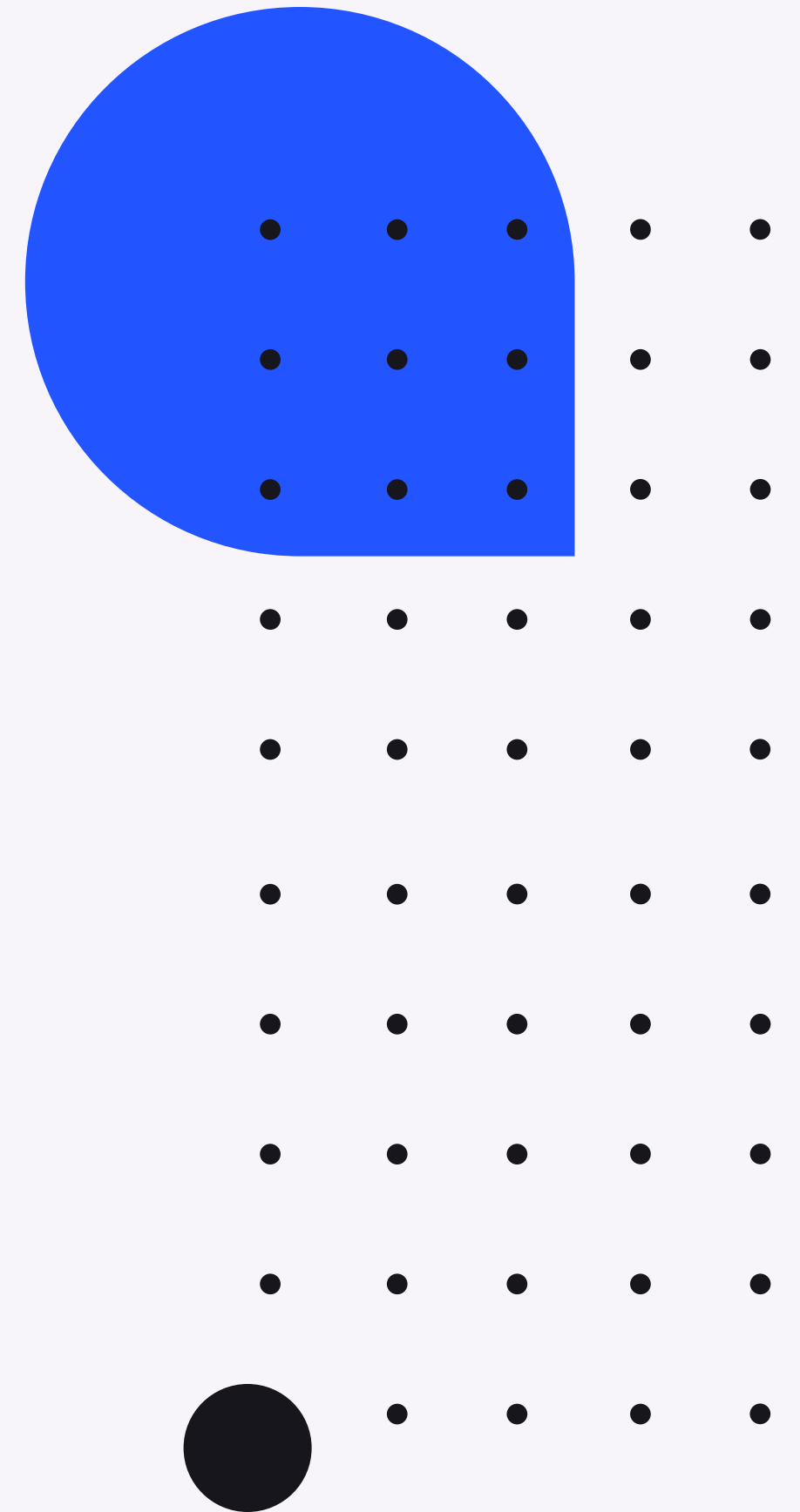
Finally we recap the session with a small game.

Who is ready for an ice breaker ?



What's poppin ?

For this training we will try to be more dynamic based on the interests of the participants and the time we have, Yet we will do our best to cover most of the important aspects in web development with an interactive way.

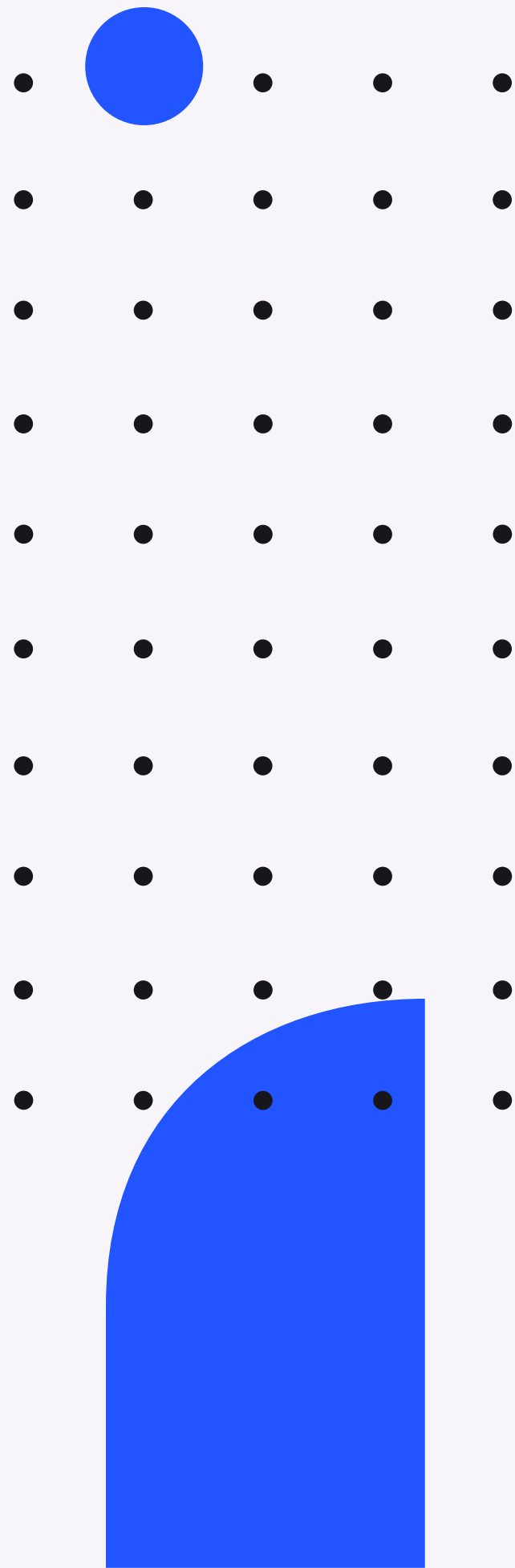




Can you relate ?

**Let's understand more why we feel overwhelmed
learning web development ?**





Roadmaps

Let's help each other find the best path for us in web development !

Usually we feel overwhelmed when we have a big task and we don't know how to decouple it or where to start exactly, and for web development the solution to this issue is to follow a specific roadmap that will tell us exactly what to learn next until we feel confident enough to continue the journey by ourselves.

WEB DEV Roadmap

Front End ☒

Front-end web development is the development of the graphical user interface of a website, through the use of HTML, CSS, and JavaScript, so that users can view and interact with that website.

Back End ☒

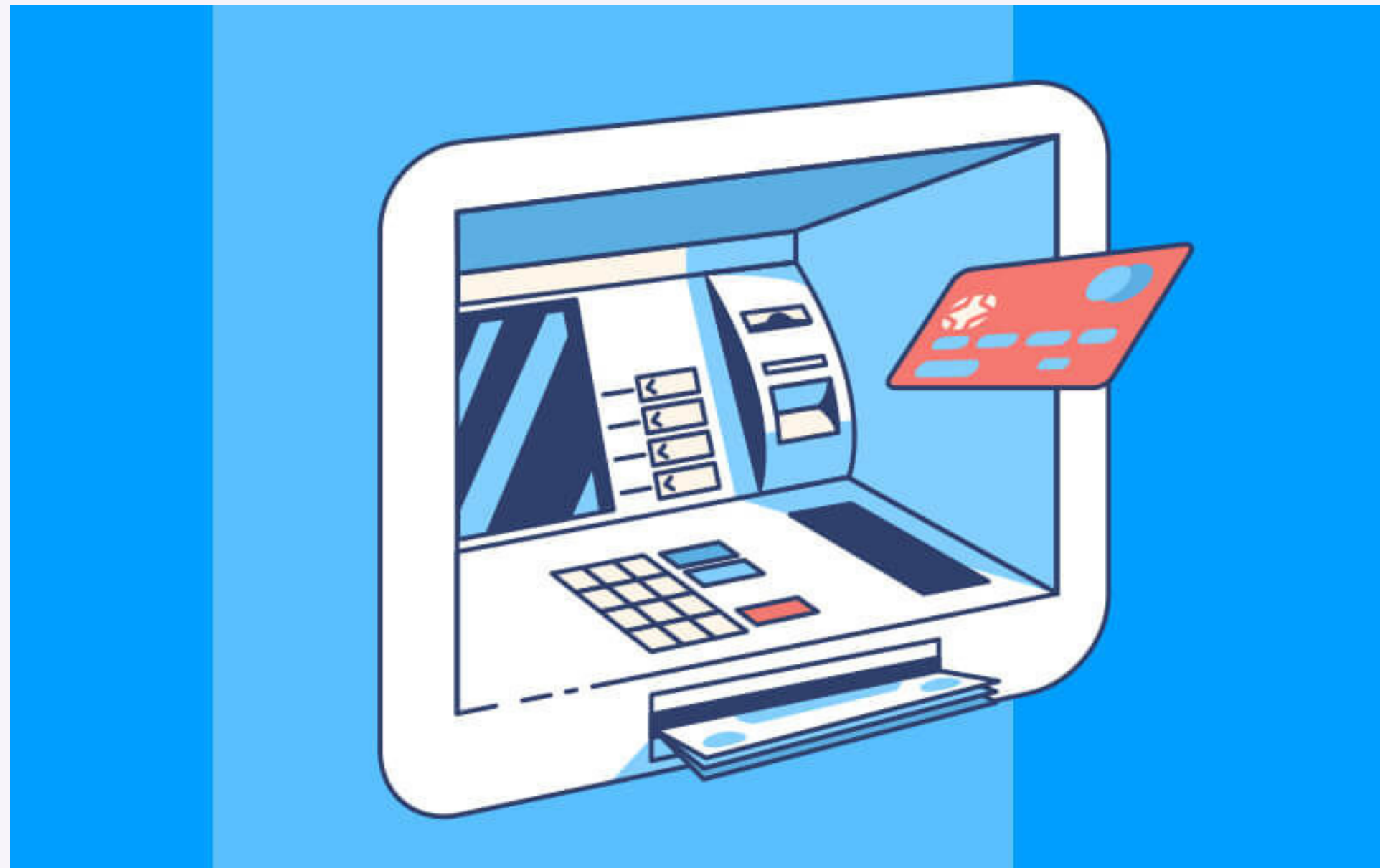
Back end development refers to the logic happening behind the scene or the server side of an application and everything that communicates between the database and the browser.

Dev Ops ☒

DevOps is a set of practices that combines software development and IT operations. It aims to provide continuous delivery with high software quality.



Example: ATM machine



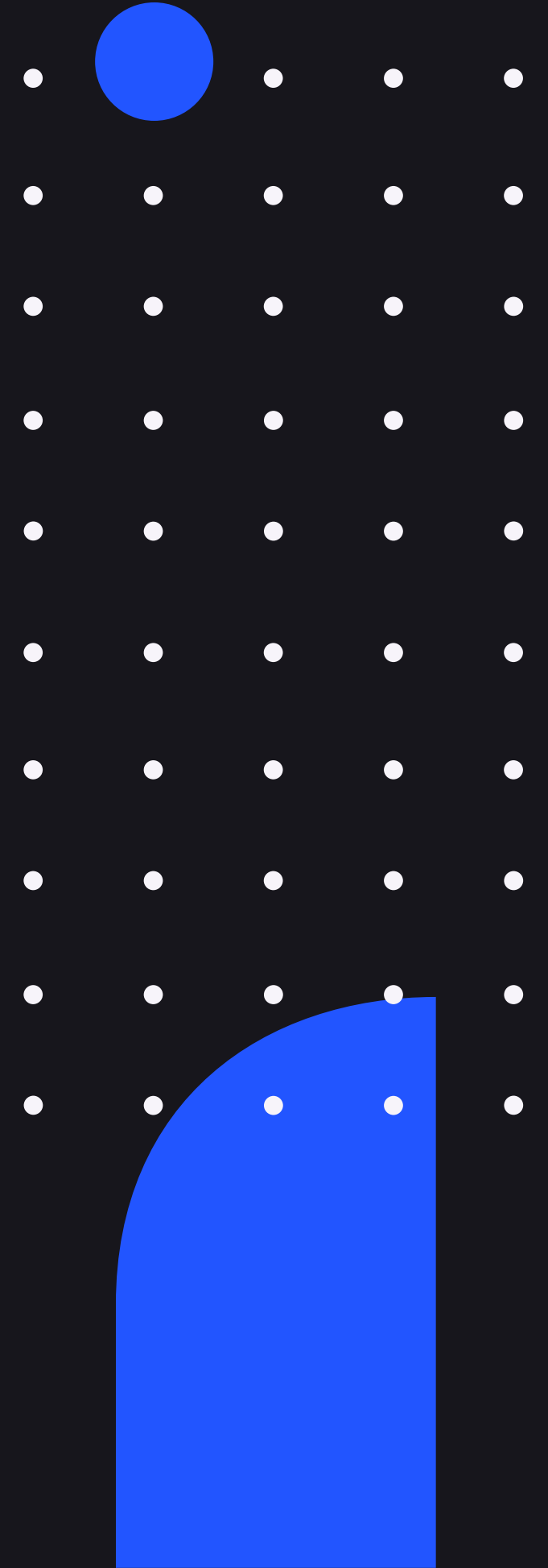
Now let's check each roadmap in details

Visit <https://roadmap.sh/>

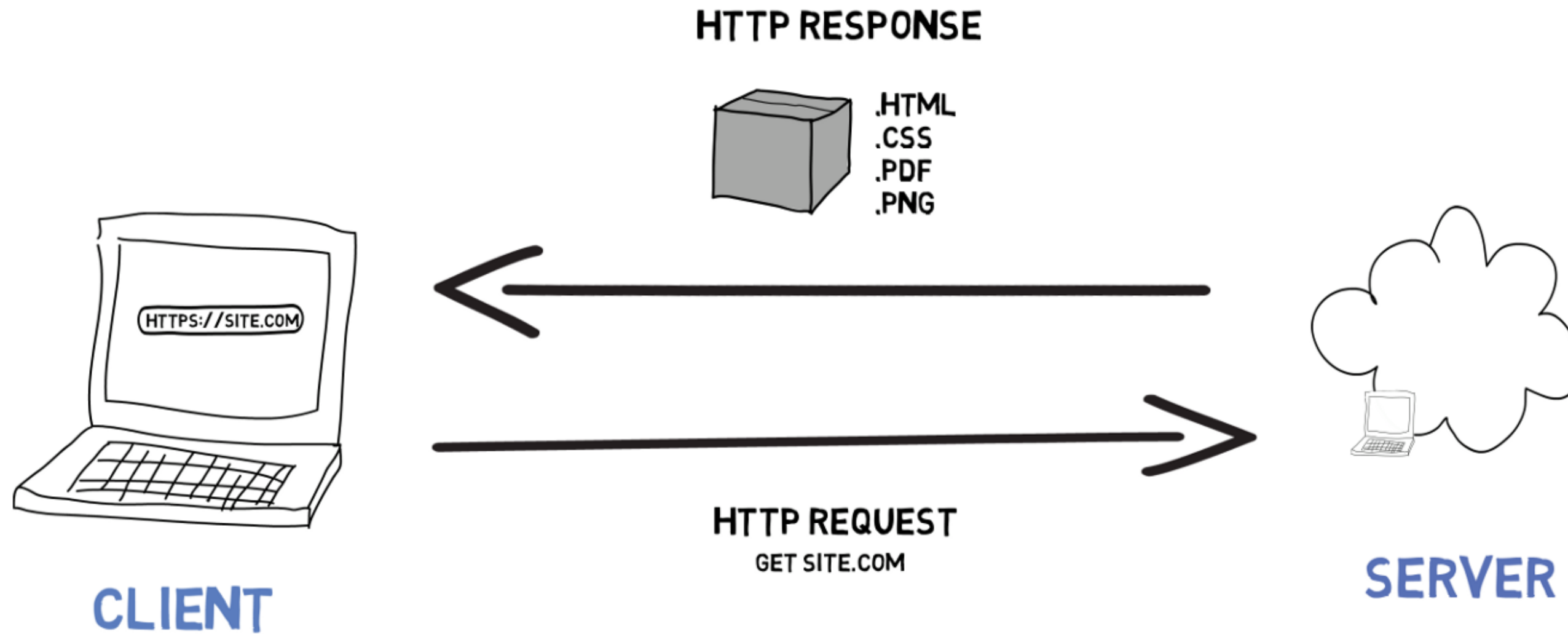


101 Internet

Let's understand the different aspects of the internet !

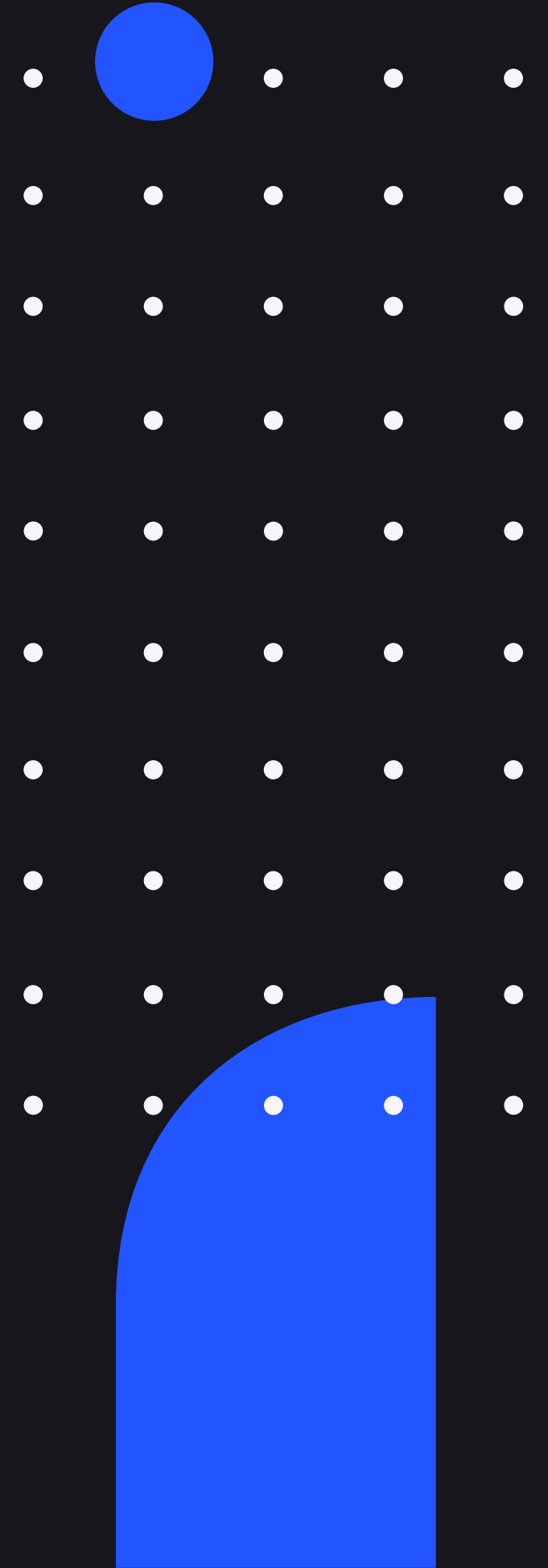


HOW THE INTERNET WORKS



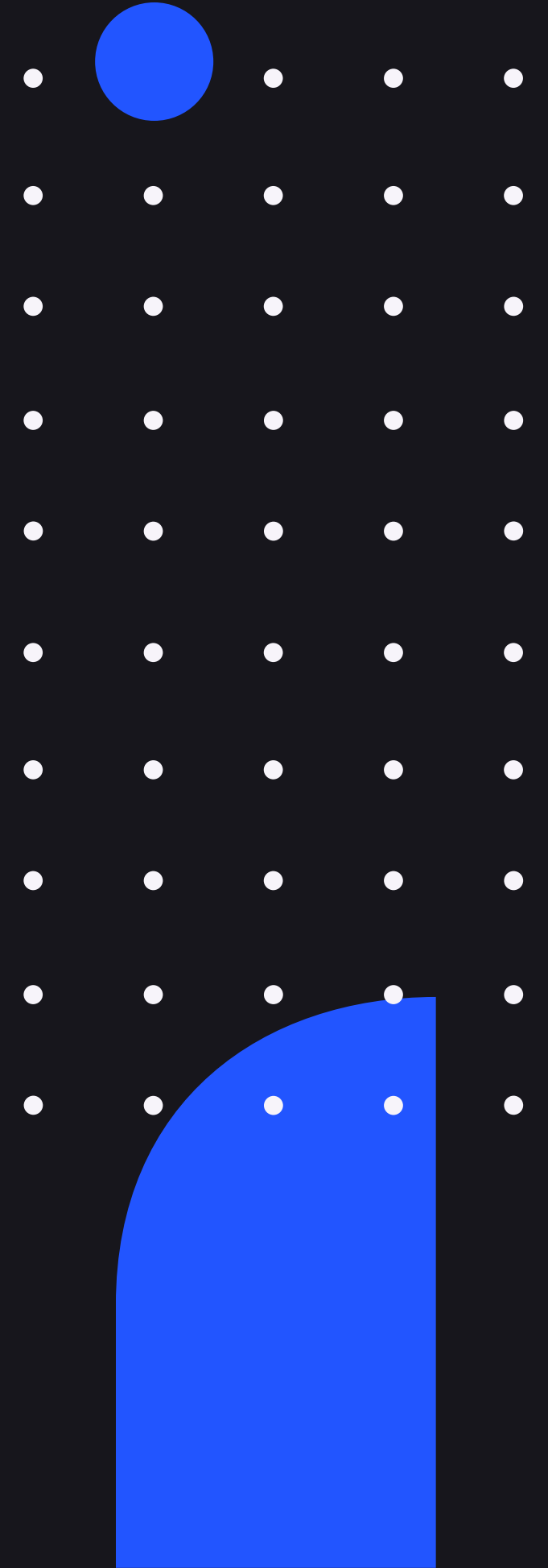
What's HTTP Request ?

- HTTP stands for HYPER TEXT TRANSFER PROTOCOL
- Way of communication between web servers and the clients
- HTTP Request / Response
- Example: Loading a page / Submit a form / AJAX calls



What's HTTPs ?

- HTTP stands for HYPER TEXT TRANSFER PROTOCOL SECURE
- Data transfer is encrypted
- SSL / TLS
- Install certificate on the web host



HTTP Methods ?

GET:

Retrieve data from the server

POST:

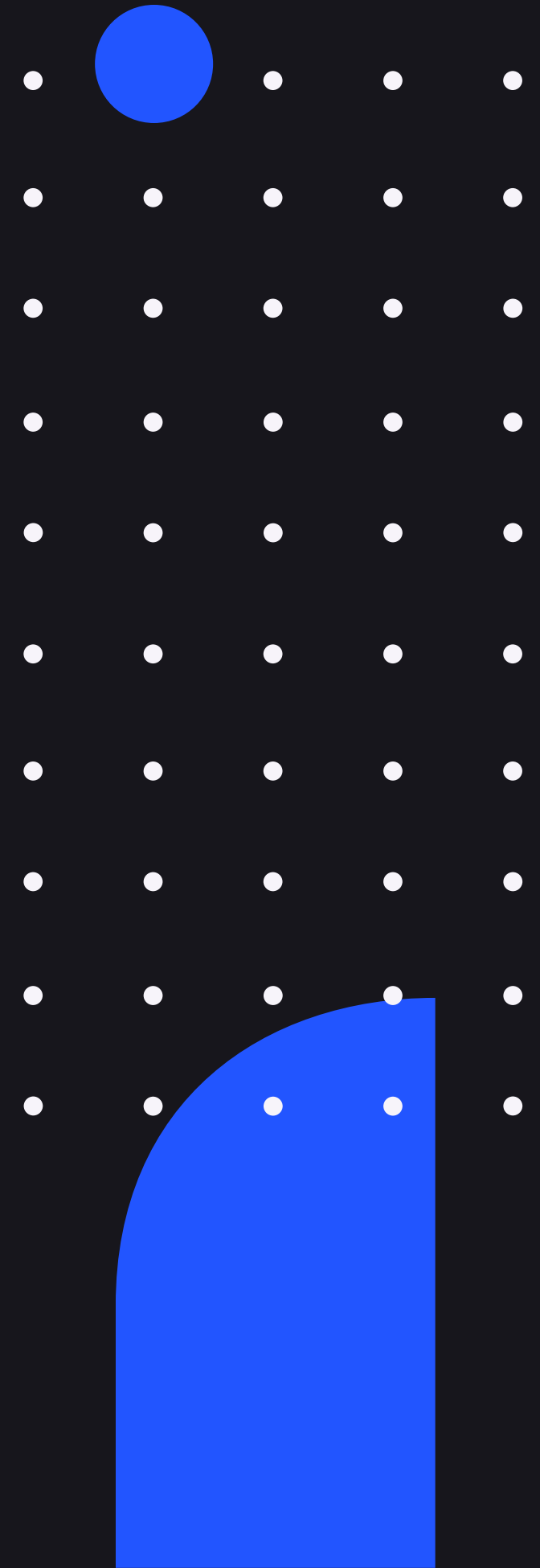
Submit data to the server

PUT:

Update data already on the server

DELETE:

Deletes data from the server



HTTP Request ?

GET:

Retrieve data from the server

POST:

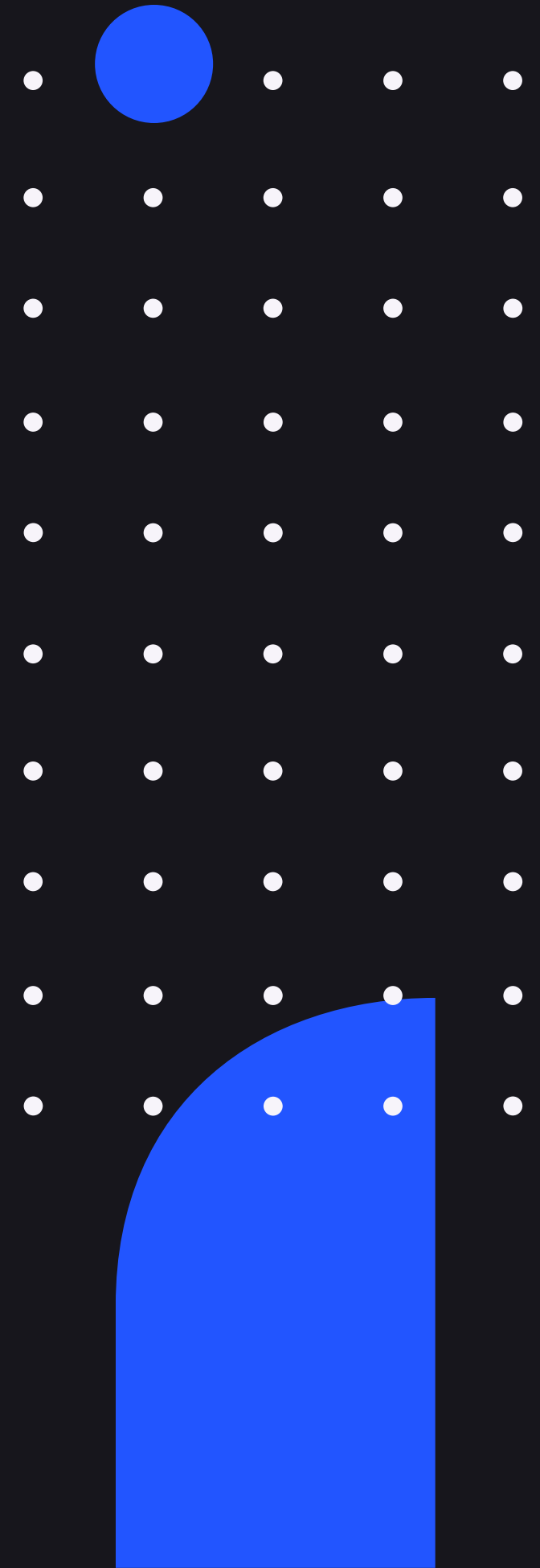
Submit data to the server

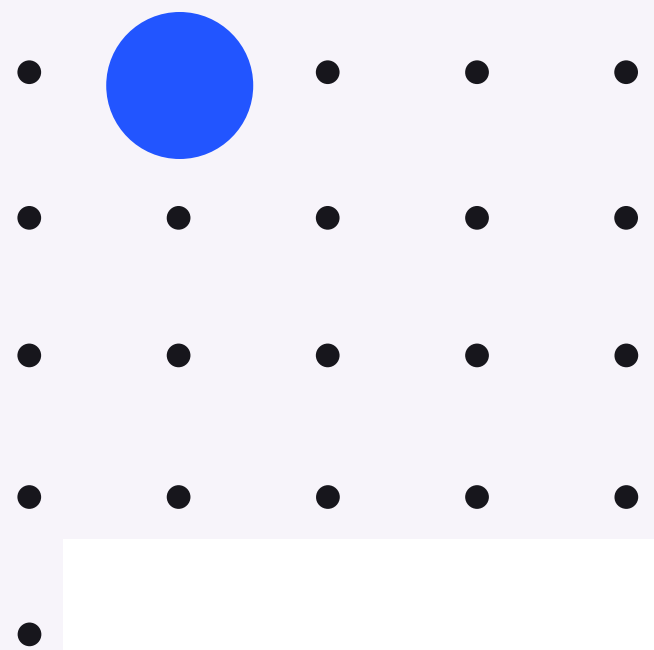
PUT:

Update data already on the server

DELETE:

Deletes data from the server





HTTP header fields

```
method      path      protocol
GET /tutorials/other/top-20-mysql-best-practices/ HTTP/1.1
Host: net.tutsplus.com
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=
Accept-Language: en-us,en;q=0.5
Accept-Encoding: gzip,deflate
Accept-Charset: ISO-8859-1,utf-8;q=0.7,*;q=0.7
Keep-Alive: 300
Connection: keep-alive
Cookie: PHPSESSID=r2t5uvjq435r4q7ib3vtdjq120
Pragma: no-cache
Cache-Control: no-cache
```

HTTP headers as Name: Value

General:	Response:	Request:
Request URL	Server	Cookies
Request Method	Set-Cookie	Accept-xxx
Status Code	Content-Type	Content-Type
Remote Address	Content-Length	Content-Length
Referrer Policy	Date	Authorization
		User-Agent
		Referrer

HTTP Status code ?

1xx: Informational

Request received / processing

2xx: Success

Successfully received, understood and accepted

3xx: Redirect

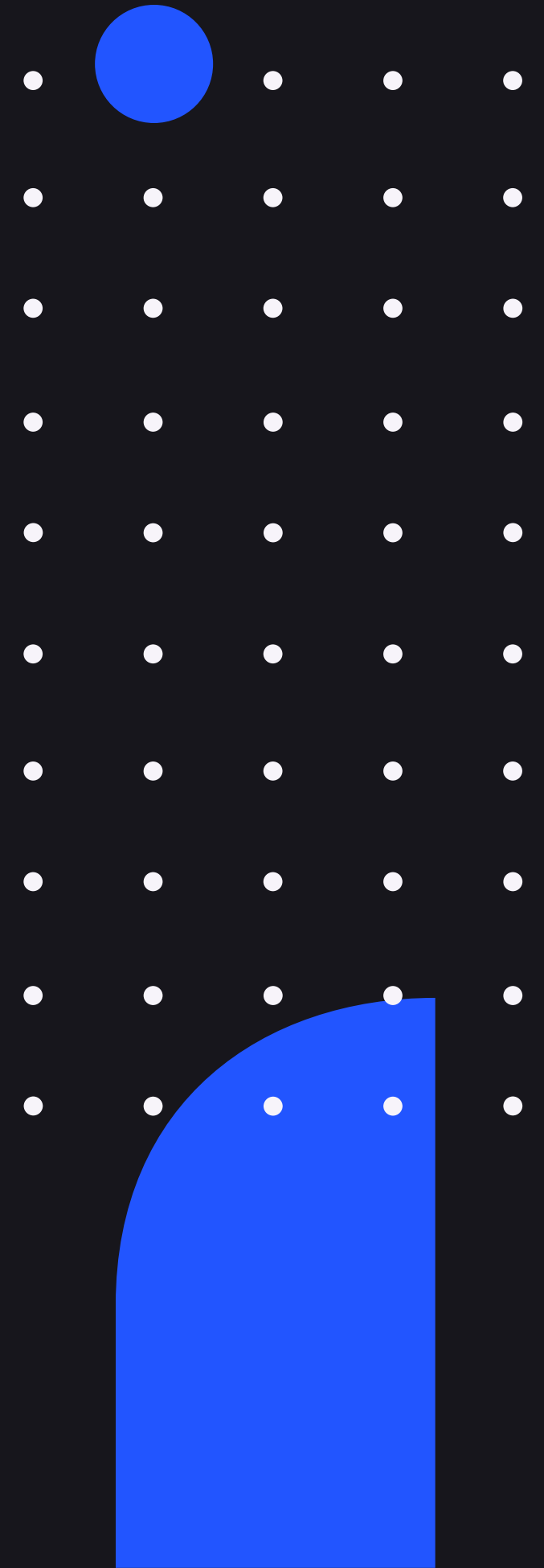
Further actions must be taken / redirect

4xx: Client Error

Request does not have what it needs

5xx: Server Error

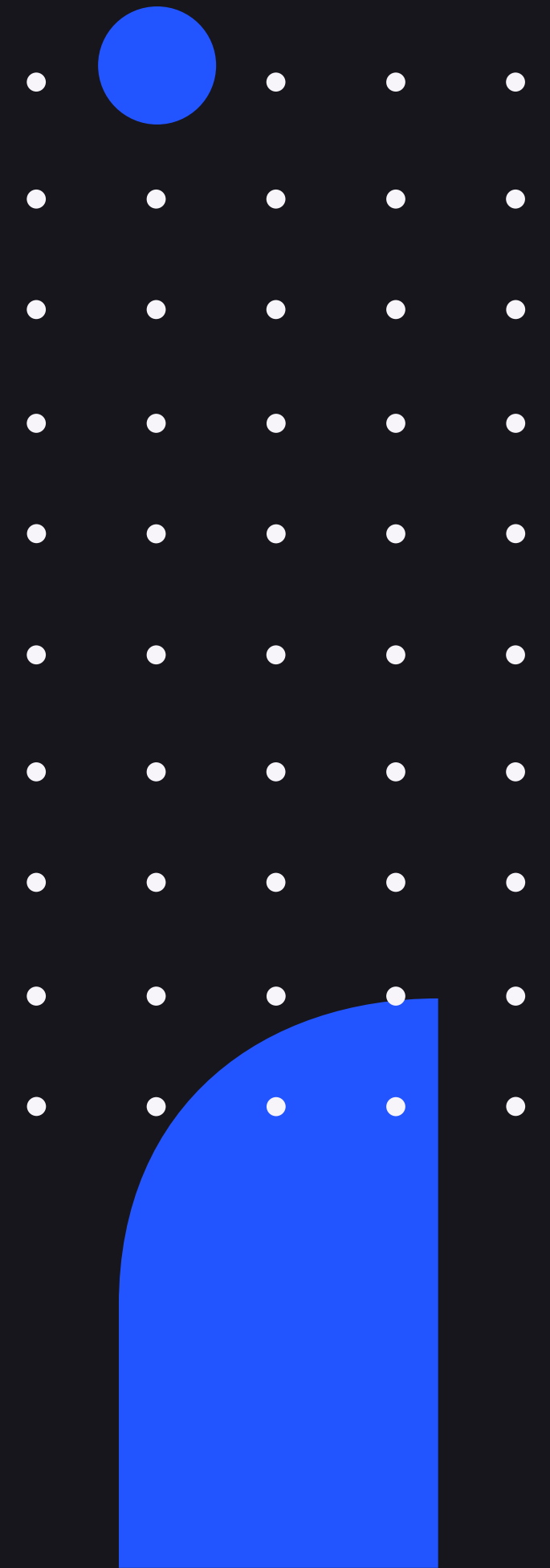
Server failed to fulfil the operation



Congratulations, now you understand the most important aspects of the internet ☒☒



Let's rewind ☒



And that was it ! ☒

