

Compilatore online...



...un viaggio
inaspettato

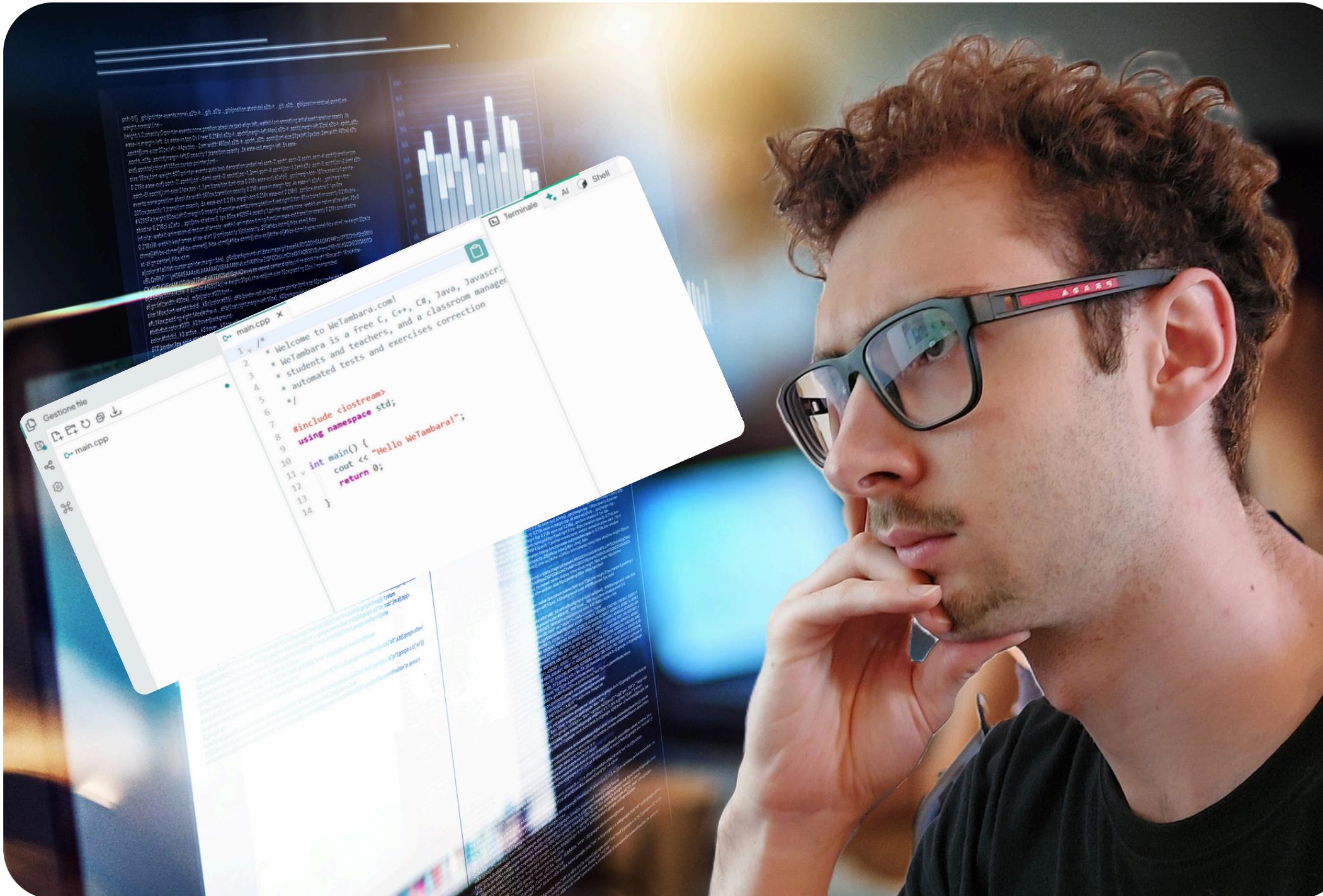


Partiamo dalla base,
ci serve un compilatore
online

Ma si, non può
essere così
difficile...

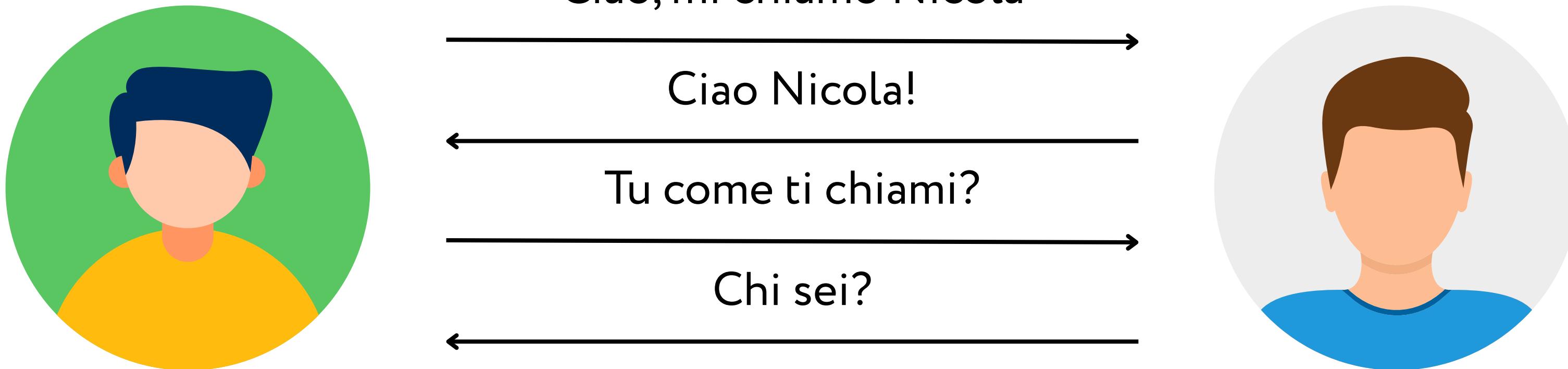


3 anni dopo...

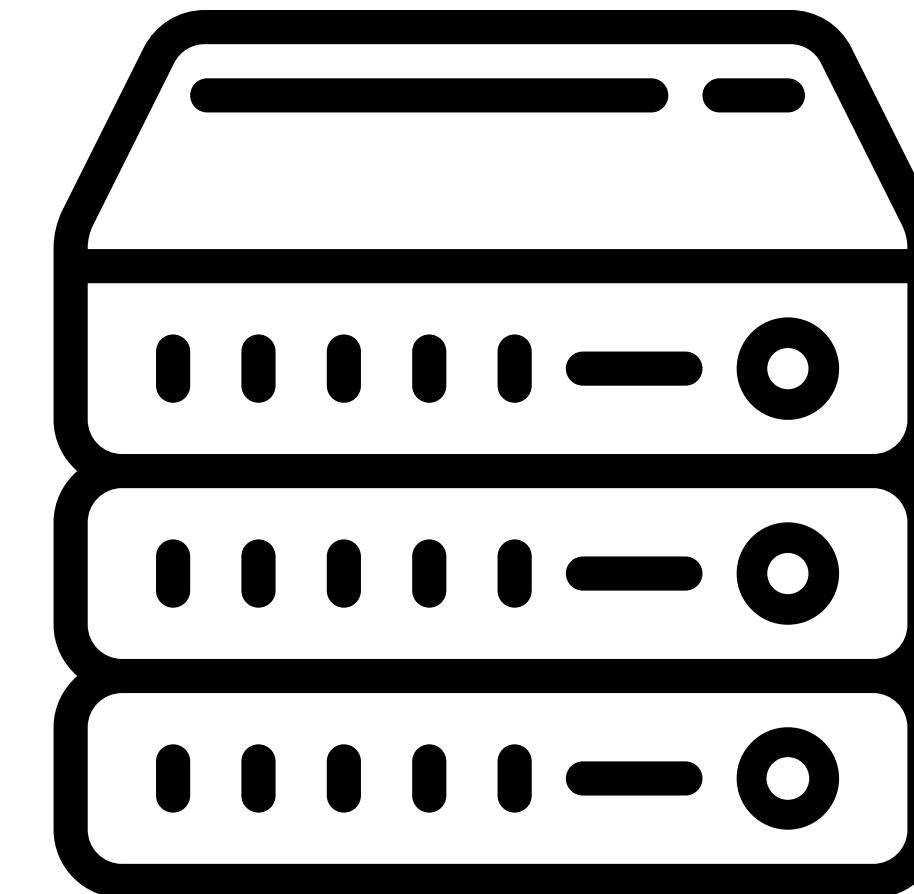
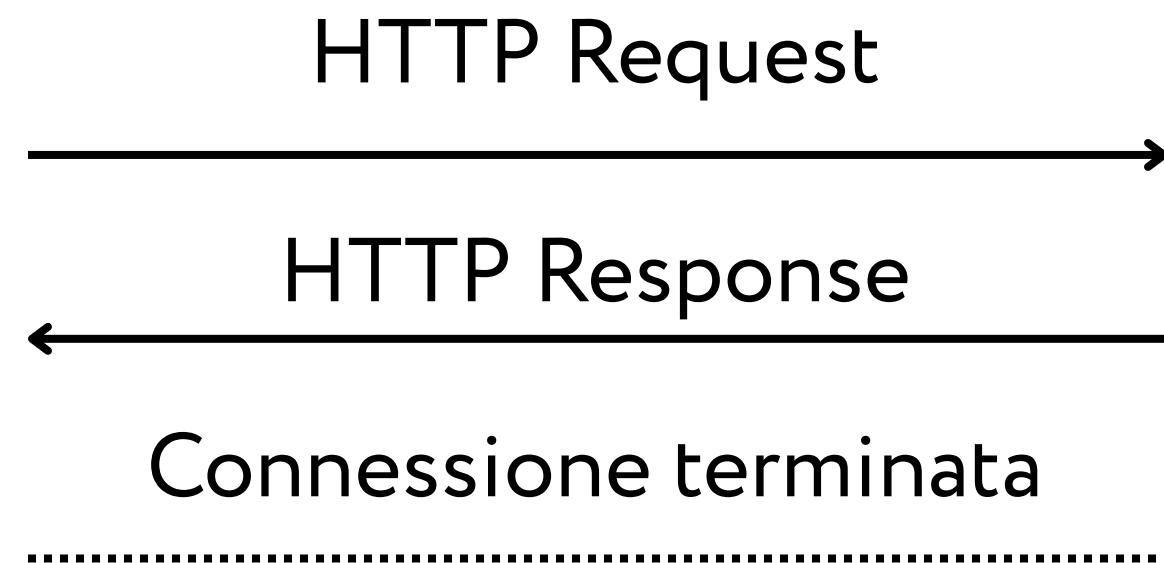
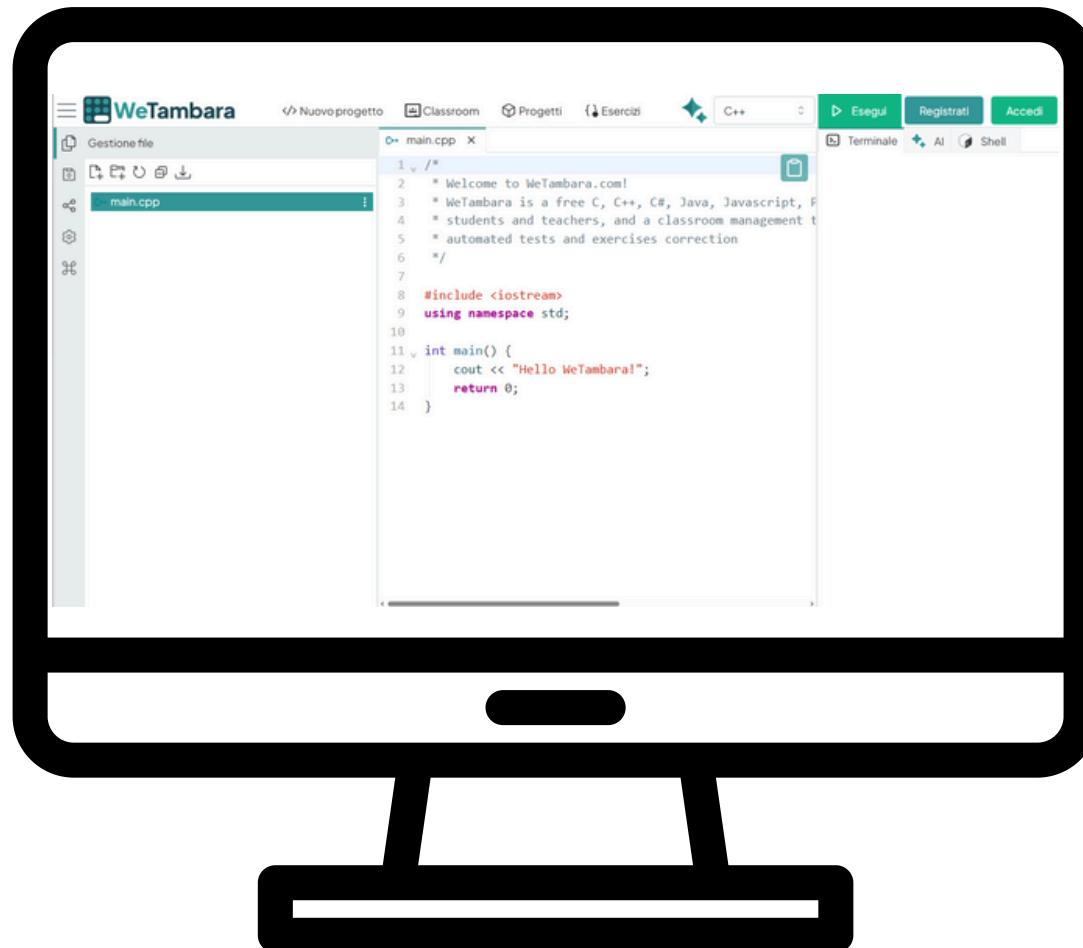


1: Come comunicare?

Semplice HTTP
come parlare a uno smemorato



Richieste e risposte stateless



```
1 #include <iostream>
2 using namespace std;
3
4 v int main() {
5     int a, b;
6
7     cout << "a: ";
8     cin >> a;
9
10    cout << "b: ";
11    cin >> b;
12
13    cout << "La somma è: " << a + b << endl;
14
15 }
```

a : 5

b : 2

La somma è: 7

Client

Server

Esegu

a:

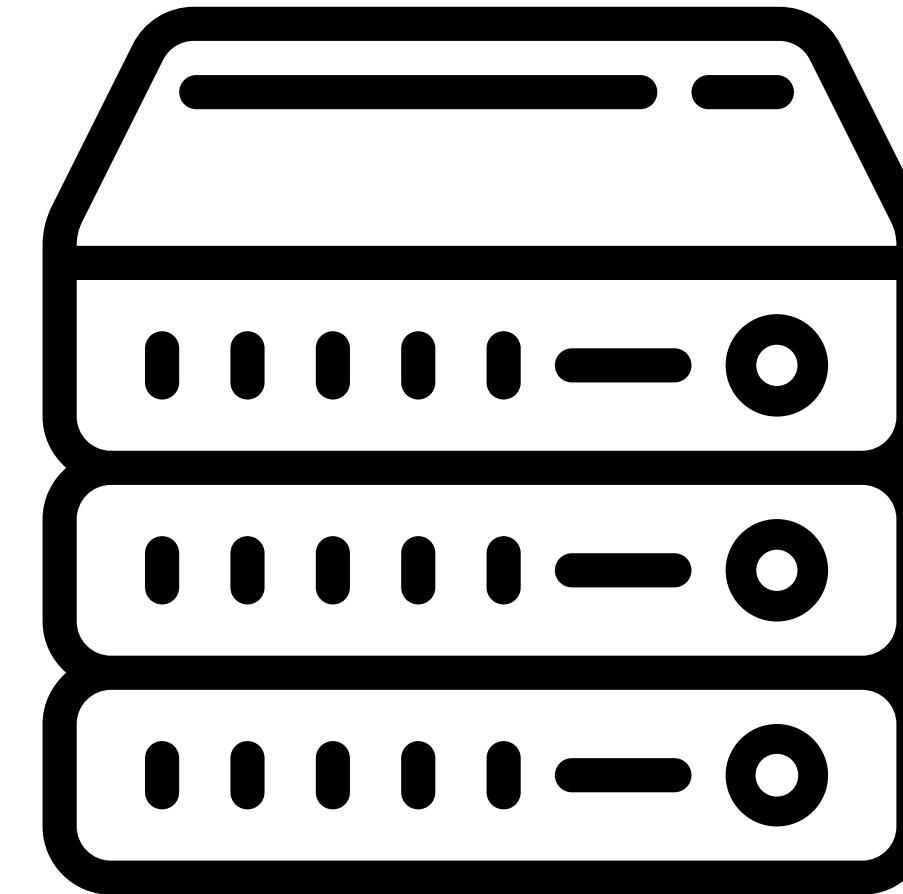
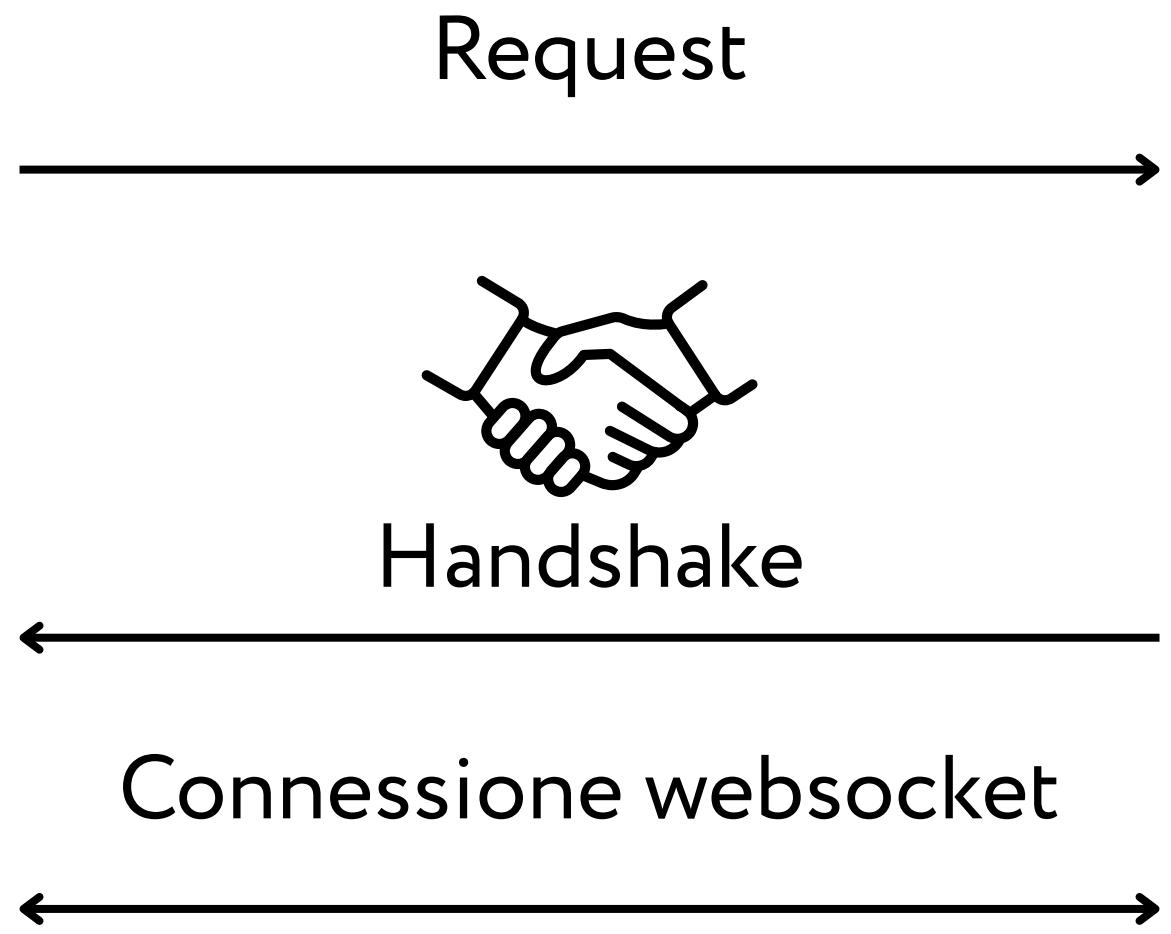
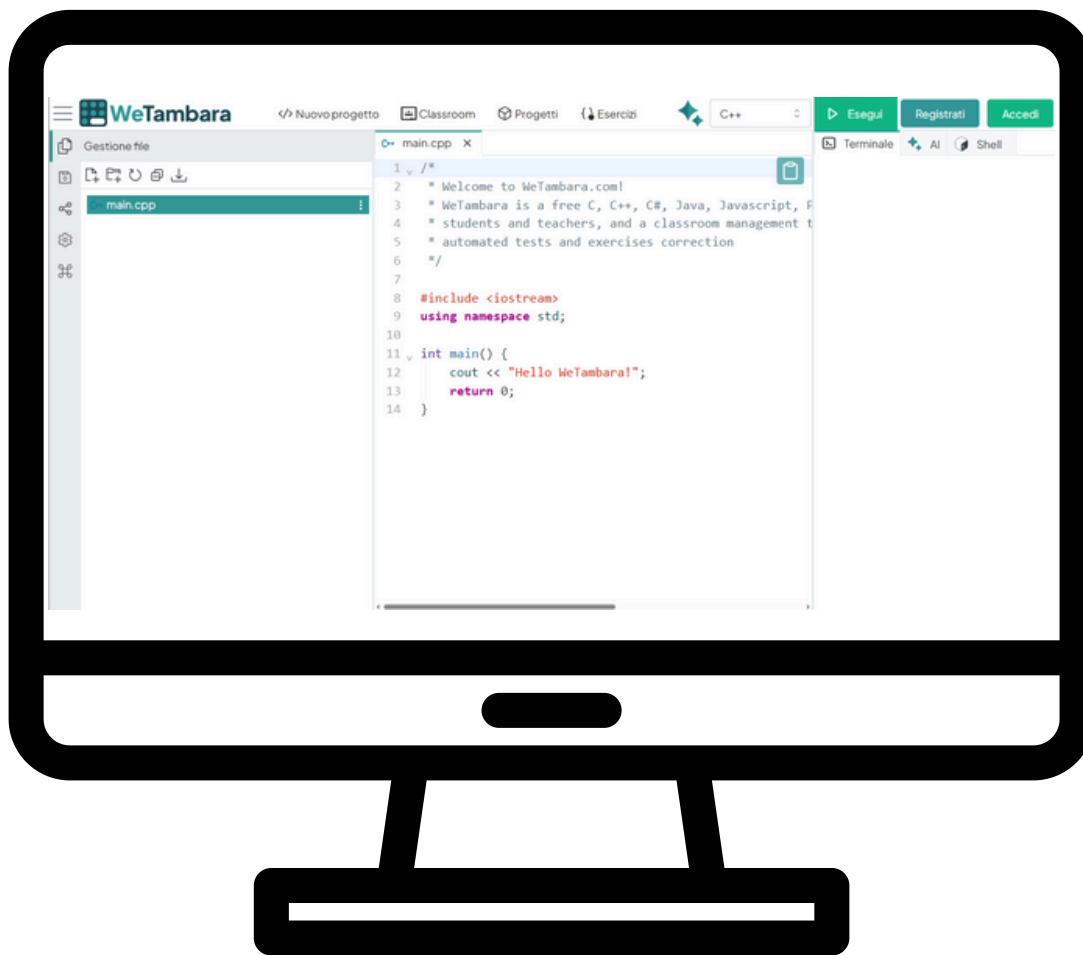
5

b:

2

La somma è: 7

WebSocket!



Altra soluzione moderna: RPC

2: dove eseguire il codice?



Primi 6 mesi: esecuzione
come semplice
utente di sistema

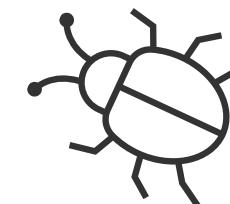
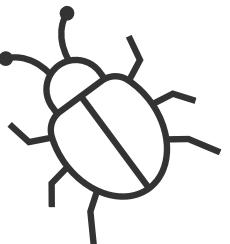
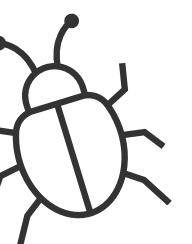
Ma un brutto giorno...

Droplets

[Droplets](#) [Autoscale Pools](#)

Search by Droplet name

Name	IP Address
ubuntu-s-1vcpu-2gb-ams3-01 2 GB / 50 GB Disk / AMS3 - Ubuntu 25.04 x64	134.122.52.246



Un'altra soluzione: Docker container



E per altri 2 anni va tutto bene

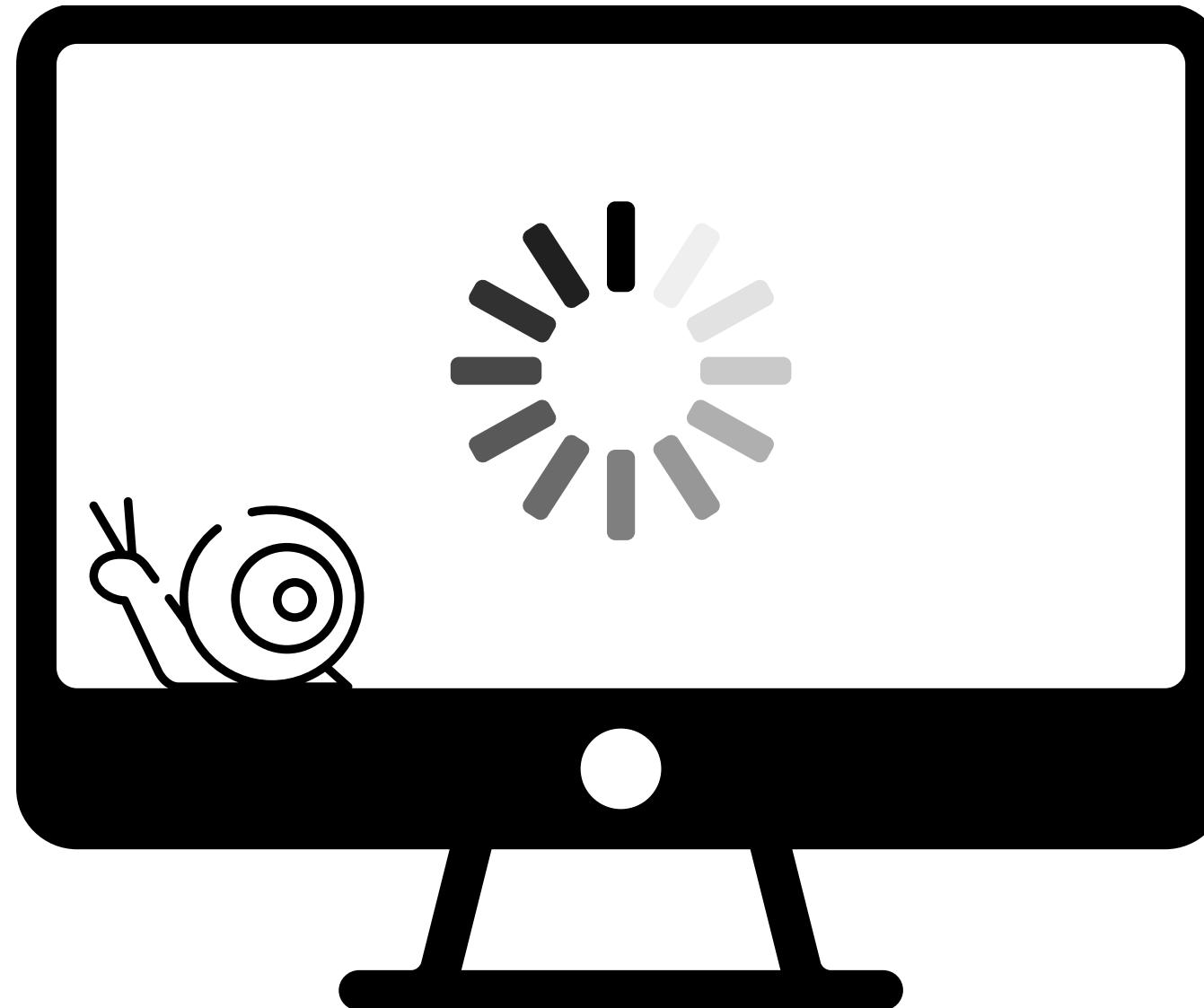


Finchè recentemente... 5000 utenti!

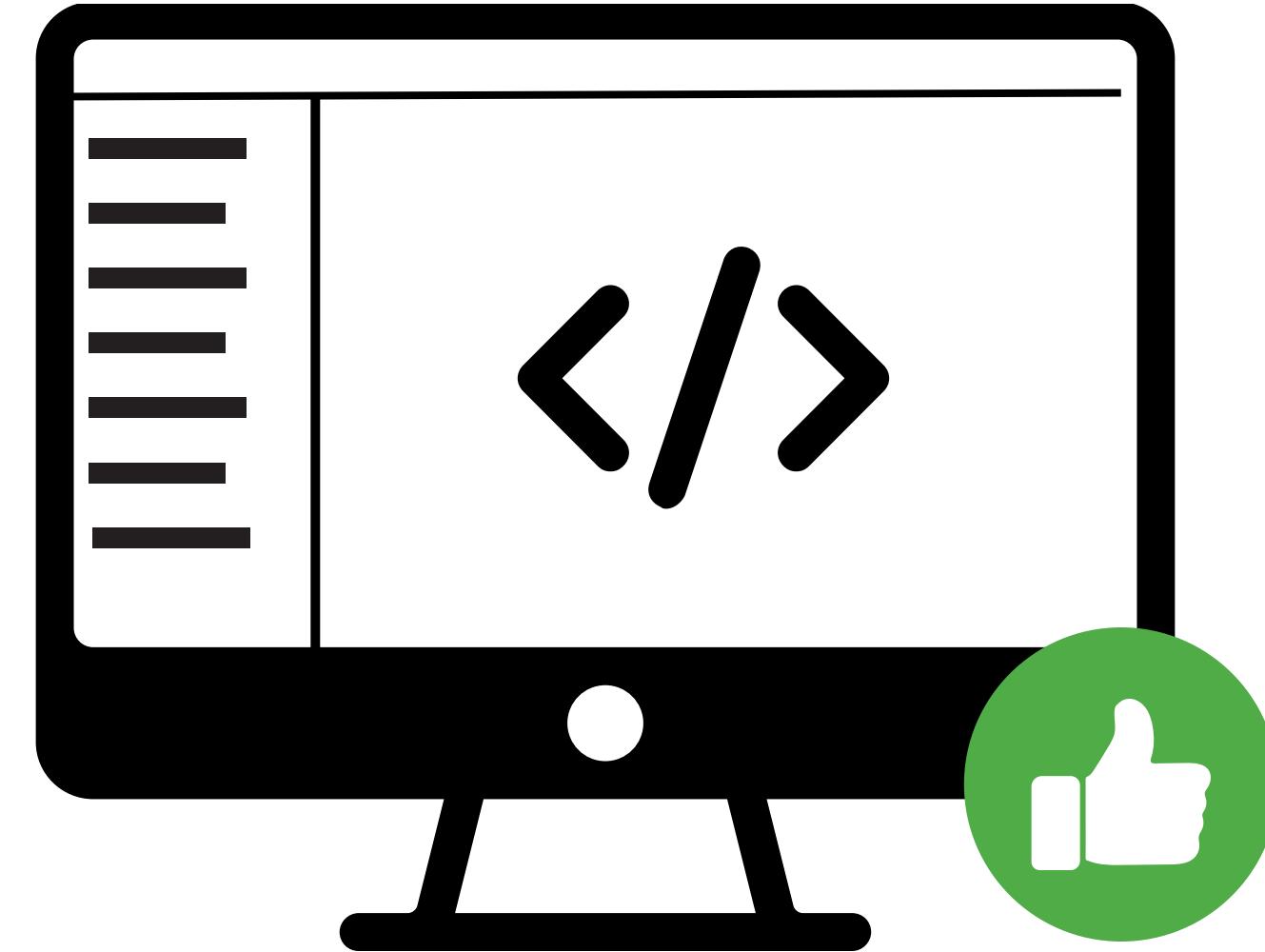
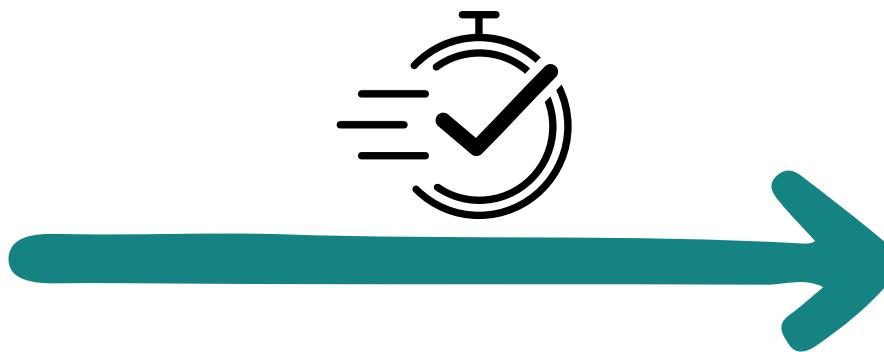
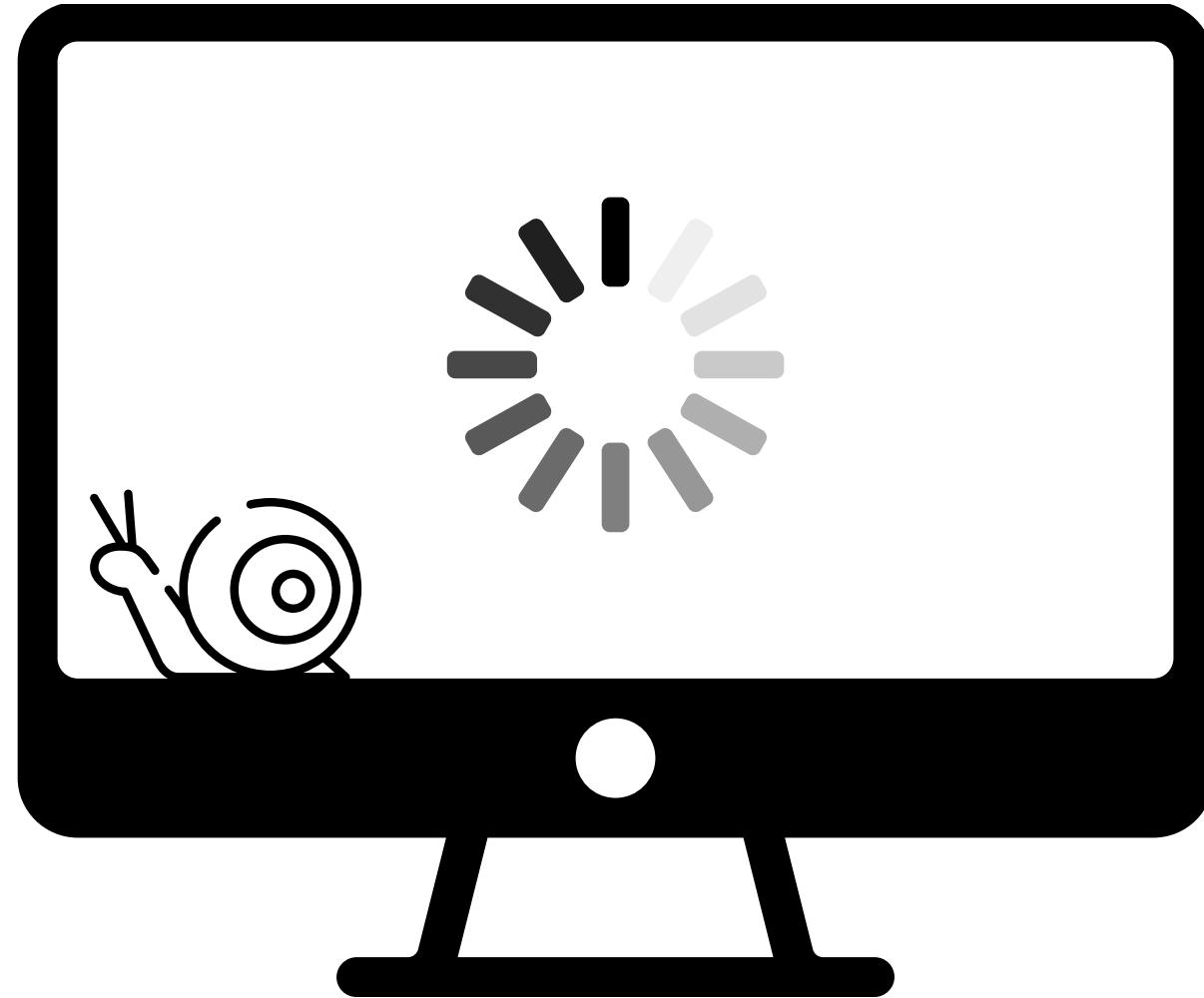


Il carico sul sistema aumenta e il compilatore rallenta

Perchè? Troppa virtualizzazione!

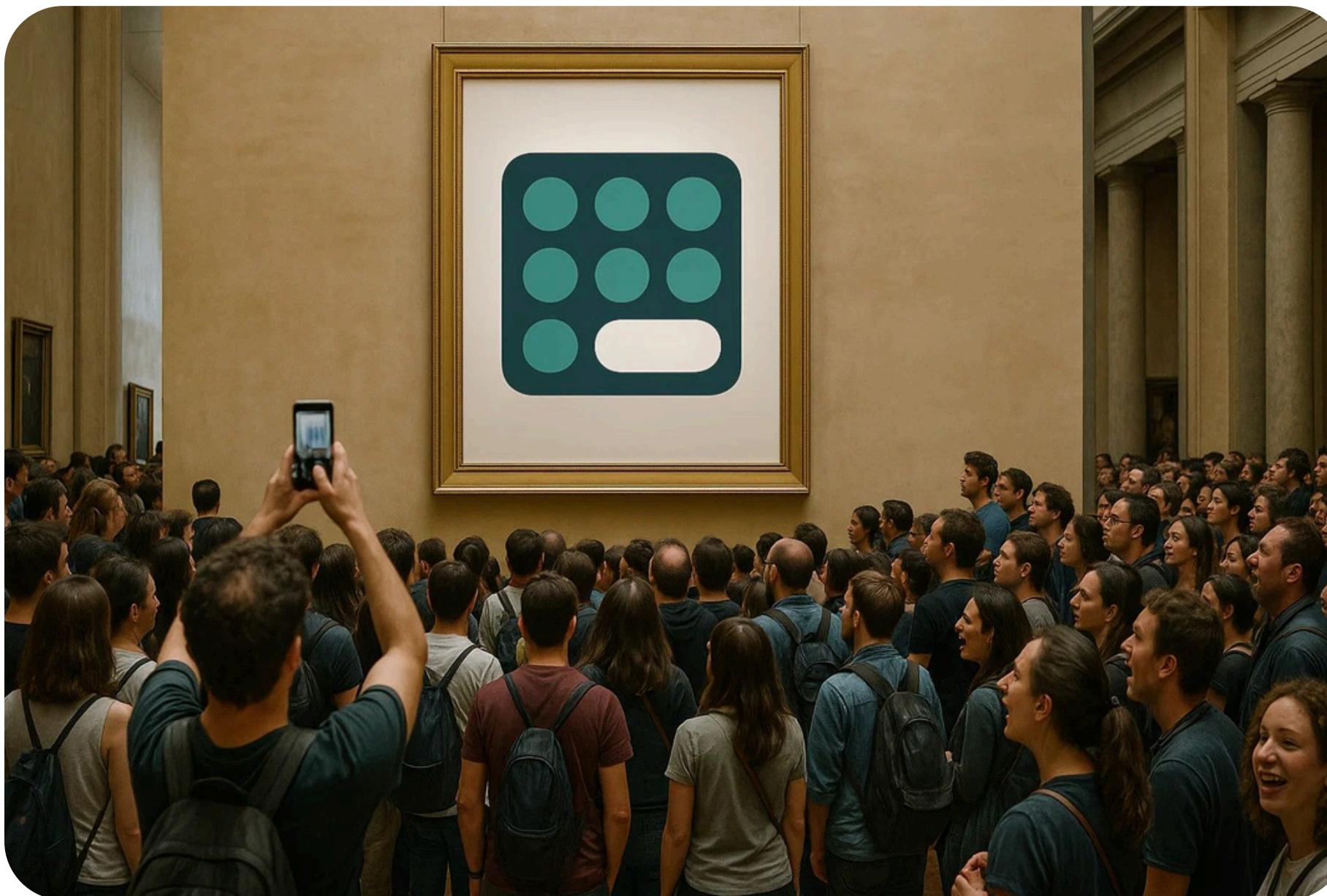


Alla ricerca di una soluzione

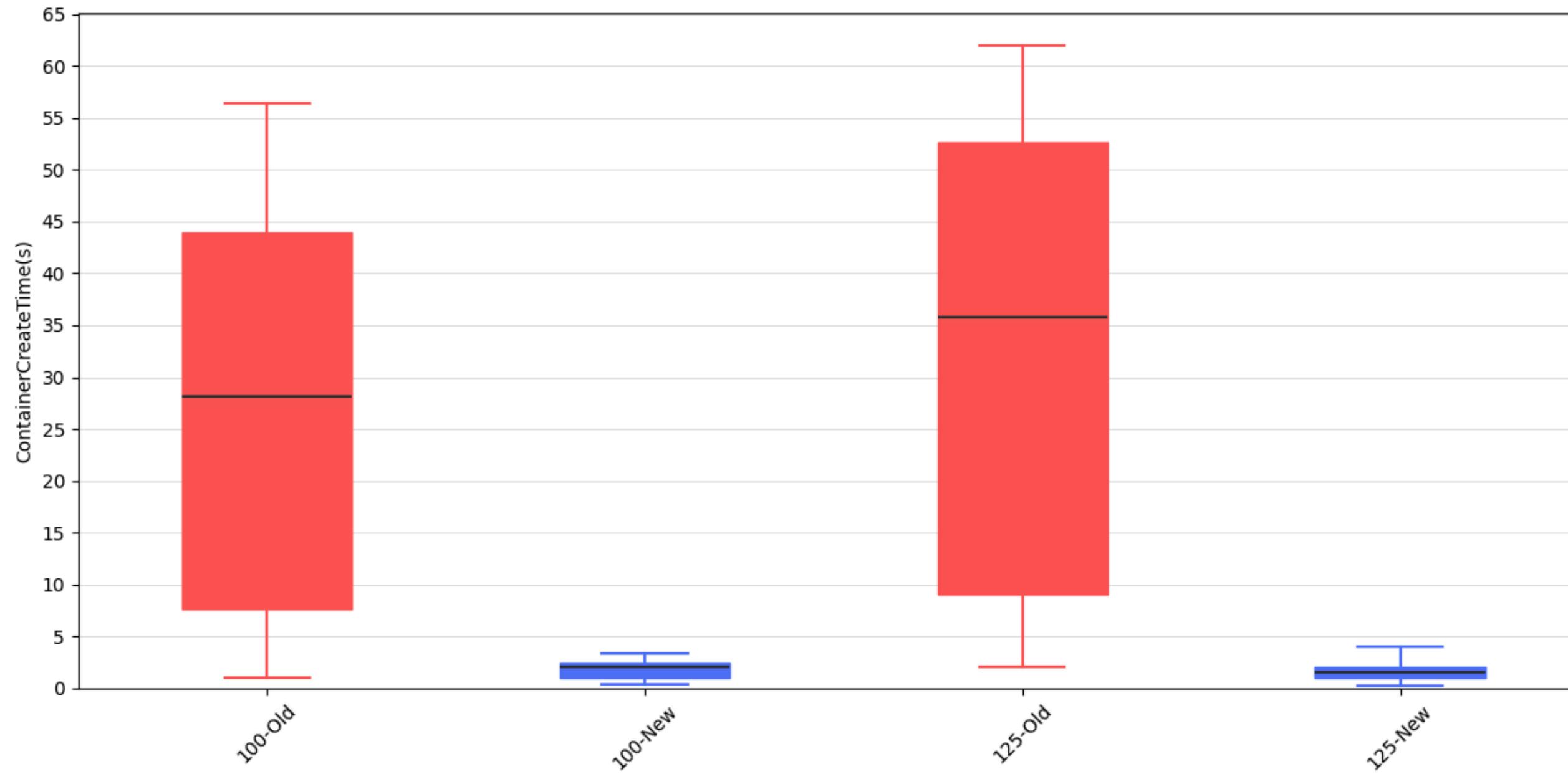


nella mia tesi di laurea

Dopo 6 mesi



I risultati



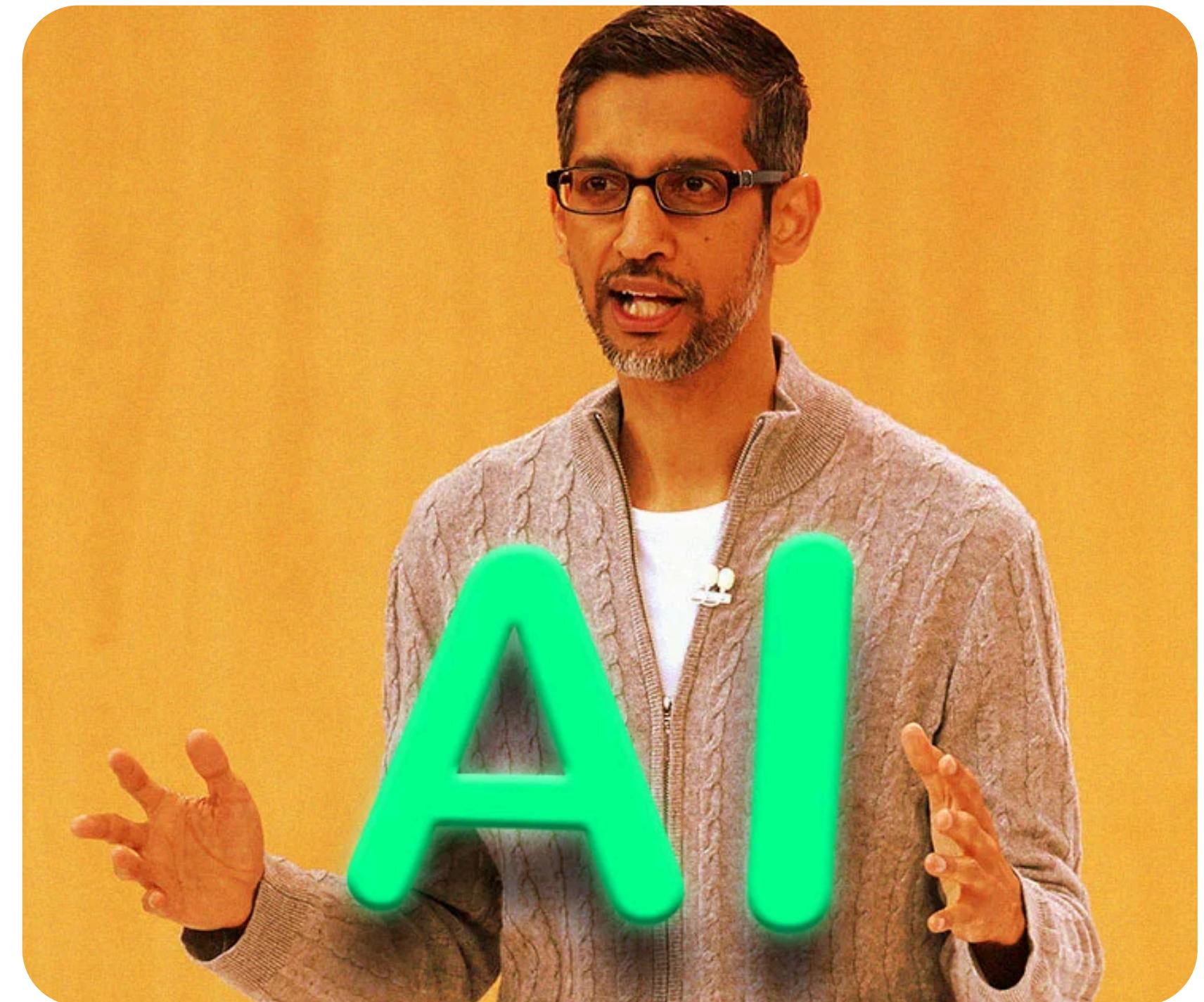
WeTambara più veloce e efficiente



3: AI

Quale modello?

Dipende!



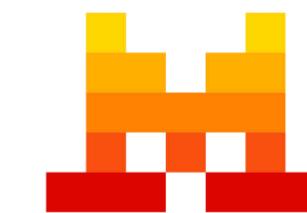
C++ main.cpp X

```
1 v /*  
2  * Welcome to WeTambara.com!  
3  * WeTambara is a free C, C++, C#, Java, Javascript, P  
4  * students and teachers, and a classroom management t  
5  * automated tests and exercises correction  
6  */  
7  
8 #include <iostream>  
9 using namespace std;  
10  
11 v int main() {  
12     cout << "Hello WeTambara!"  
13     return 0;  
14 }
```



OpenAI

Gemini



Mistral AI

Esercitazione OOP

Fondamenti di OOP in C++



Sommario

Insegnanti

Membro	Data di apertura	Data di consegna
--------	------------------	------------------

<input type="checkbox"/> 1 W Mr. WeTambara	Mai aperto	
--------------------------------------------	------------	--

Risultati per pagina: 40

Studenti

2 consegnati | 0 assegnati

Seleziona tutto

Membro	Data di apertura	Data di consegna
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<input type="checkbox"/> 1 D Benna Diego	05/09/2024 18:09	18/07/2025 11:54
------------------------------------------	------------------	------------------

<input type="checkbox"/> 2 N Lovo Nicola	04/09/2024 12:26	04/09/2024 12:26
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Risultati per pagina: 40

E i rischi etici dell'AI nelle scuole?

