

1. Pruebas, backend 2 – Wilmer Froilan Villca Mamani, CI: 619697 LP

Obtiene un token CSRF

```
curl -X GET http://localhost:3000/api/csrf-token \
--cookie-jar cookies.txt
```

Registro de Usuario

```
curl -X POST http://localhost:3000/api/auth/register \
-H "Content-Type: application/json" \
-d '{"email":"wilmer.villca@google.com", "password":"VillcaPass123!"}' \
--cookie-jar cookies.txt
```

```
wilmer@DESKTOP-1S19UOT MINGW64 /e/Diplomado-2025/m6/proyecto-login-seguro/backend (feature/backend-2)
$ curl -X POST http://localhost:3000/api/auth/register \
-H "Content-Type: application/json" \
-d '{"email":"wilmer.villca@google.com", "password":"VillcaPass123!"}' \
--cookie-jar cookies.txt
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 124 100 59 100 65 186 205 --:--:-- --:--:-- --:--:-- 392{"id":2,"csrfToken":"mxOAF5kT-N7zvpR4LjA1sCENqYE06AuPpVJ8"}
```

Inicio de Sesión

```
curl -X POST http://localhost:3000/api/auth/login \
-H "Content-Type: application/json" \
-H "X-CSRF-Token: mxOAF5kT-N7zvpR4LjA1sCENqYE06AuPpVJ8" \
--cookie cookies.txt \
-d '{"email":"wilmer.villca@google.com", "password":"VillcaPass123!"}'
```

```
wilmer@DESKTOP-1S19UOT MINGW64 /e/Diplomado-2025/m6/proyecto-login-seguro/backend (feature/backend-2)
$ curl -X POST http://localhost:3000/api/auth/login \
-H "Content-Type: application/json" \
-H "X-CSRF-Token: mxOAF5kT-N7zvpR4LjA1sCENqYE06AuPpVJ8" \
--cookie cookies.txt \
-d '{"email":"wilmer.villca@google.com", "password":"VillcaPass123!"}'
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 143 100 78 100 65 305 254 --:--:-- --:--:-- --:--:-- 558{"message":"Login exitoso","csrfToken":"S7Lvr8Fa-xVju-fcIChvYGVYDJXhezkdpm4no"}
```

Obteniendo el connect.sid (Cookie de Sesión)

```
curl -X POST http://localhost:3000/api/auth/register \
-H "Content-Type: application/json" \
-d '{"email":"wilmer.villa@google.com", "password":"VillcaPass123!"}' \
-c cookies.txt
```

```
wilmer@DESKTOP-1S19UOT MINGW64 /e/Diplomado-2025/m6/proyecto-login-seguro/backend (feature/backend-2)
$ curl -X POST http://localhost:3000/api/auth/register \
-H "Content-Type: application/json" \
-d '{"email":"wilmer.villa@google.com", "password":"VillcaPass123!"}' \
-c cookies.txt
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 123 100 59 100 64 194 210 --:--:-- --:--:-- --:--:-- 404{"id":3,"csrfToken":"kt7FZGIs-7t6m\vr5ZVx11DtctCvFasWOBM"}

wilmer@DESKTOP-1S19UOT MINGW64 /e/Diplomado-2025/m6/proyecto-login-seguro/backend (feature/backend-2)
$ cat cookies.txt
# Netscape HTTP Cookie File
# https://curl.se/docs/http-cookies.html
# This file was generated by libcurl! Edit at your own risk.

#HttpOnly_localhost FALSE / FALSE 0 connect.sid s%3AZ5wzq-YyPJuthEISTdyCq7ZoFO_cvu1Q.ErCR8uNP0buFwEn%2FNkNSSbera9BL1eZw2Rv35nUio5g
$
```

Pruebas de SQL Injection

Prueba 1: Inyección en campo email

```
curl -X POST http://localhost:3000/api/auth/login -H "Content-Type: application/json" -d
'{"email":"wilmer.villca@google.com\" OR \"1\"=\"1", "password":"any"}'
```

```
wilmer@DESKTOP-1S19UOT MINGW64 /e/Diplomado-2025/m6/proyecto-login-seguro/backend (feature/backend-2)
$ curl -X POST http://localhost:3000/api/auth/login -H "Content-Type: application/json" -d '{"email":"wilmer.villca@google.com\" OR \"1\"=\"1", "password":"any"}'
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 203 100 134 100 69 44049 22682 --:--:-- --:--:-- --:--:-- 67666{"errors":[{"type":"field","value":"wilmer.villca@google.com\" OR \"1\"=\"1","msg":"Invalid value","path":"email","location":"body"}]}
```