

# Assignment 3

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LNU Student Shop - A Vulnerable  
Web Application

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# Tools and Requirements

**You will be working in pairs - you choose your own partner**

## **VPN for working remotely**

- Firefox + Web Developer Tools, or any other capable browser
- Basic JavaScript and HTML knowledge, REST
- Web app security scanners => OWASP ZAP
- Password cracking tools => John the Ripper

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## LNU Student Shop

- A platform of security challenges
- A web application, deliberately vulnerable
- 13 tasks, 1 theoretical about XSS
- You can add 3 extra, of your choosing
  - Either as replacement or bonus
- An abundance of information on the net

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## LNU Student Shop

- Served on LNU's CScloud
- VPN for working remotely
- You will receive a personal URL
- Progress is saved in cookies, so do not delete them
  - Or do delete them if you would like to start over
- Progress is also checked by us
- For each challenge: How can it be prevented?

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# OWASP

- A foundation focusing on web application security
- Efforts towards frameworks, standards and best-practices
- Software and web application domain
- OWASP Top 10 => vulnerability categories
- Match your challenges, mention the year

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## Online Fingerprint

- Too much information is available
- Two combinations:
  - Moscow, Russia &
  - Windows XP, AOL v.9

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# Online Fingerprint

## Canvas Fingerprinting

- Many different tricks for fingerprinting
- How does your browser handle it?
- How does Tor Browser handle it?

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## Useful Links

- [mybrowserinfo.com/details.asp](http://mybrowserinfo.com/details.asp)
- [Firefox Development Tools](#)
- [Safari Web Development Tools](#)
- [John The Ripper](#)
- [OWASP Top 10\(2013\)](#)
- [OWASP Top 10\(2017\)](#)
- [VPN](#)

An abstract background on the left side of the image. It features a series of parallel, slightly curved lines in shades of blue and teal, creating a sense of depth and movement. A bright orange and yellow light source is positioned on the left, casting a glow and creating a lens flare effect. A trail of small, white, glowing particles curves from the top left towards the bottom left, following the general direction of the lines.

# Gentle reminder!

Tough time never lasts, only tough people  
last.