

Mark as done

Due: Wednesday, 29 November 2023, 12:00 PM



Graded assignment 2 is worth 70% of your total grade. This component (Part A) is worth 10%. The analysis is due two weeks later. On this page you will submit your raw data as a single ZIP file.

Ensure you take time to read the task, guidelines, FAQs and grading details carefully.

Your Task

The aim of this assignment is to show that you can understand the payments card industry and the security implications, as seen by the user (you!).

Part A

1. Make one online purchase. This can either be a real purchase if you need to buy something, or one that is syntactically correct but ultimately rejected if you do not.
 - Note that if you just type in 16 digits as your card number, it is unlikely to be syntactically correct: many sites do give correct card numbers for this purpose, e.g. <https://www.freeformatter.com/credit-card-number-generator-validator.html> or <https://ccardgenerator.com/>.
2. You can use a payment card or PayPal accounts or ApplePay etc. BUT you must enter payment card data (i.e. the 16+ digit number, verification code etc.: don't use a site where you have a saved card (as many people do at Amazon, for example).
3. When you make the purchase, collect the following data:
 - the web page (i.e. the actual HTML) you were entering the purchase data (Primary Account Number, CVV etc.) into (note that you may wish to save the web page *before* entering the data)
 - a screen shot of the page
 - the network trace (HAR file) of the entire transaction, starting before you visited the merchant's page. There's a FNU (Feature of Negative Utility) in Chrome (at least v84): if you are working in one tab, with logging on, and get switched to a different tab, the different tab doesn't automatically get logged (whereas an iframe in the same tab should get logged). Beware that this might mean you don't log the critical part.
 - if you can also collect a system-level network trace (Understanding TLS cryptography in Wireshark or equivalent) that would also be good. However, do not SUBMIT this, just use relevant extracts in your report.
4. This evidence should be submitted (in one Zip file) as part of the submission. However, if you used real data in the HAR file, you should anonymise it before submission: replace digits in the PAN and/or CVV by N, so a CVV would look like NNN; replace letters etc in names by X, and in addresses by A, so that person XXXXXXXX would have an address of AAAAAAA. If the file is too big, use Dropbox or some such service and submit a text file with the details.



Guidelines

- Submit your assignment by Week 5 **Wednesday before 12:00 midday (UK time)**. Remember: it may take several minutes to upload your file so leave yourself plenty of time. Late assignments will be penalised.



Grading summary

Hidden from students	No
Participants	18
Submitted	16
Needs grading	0
Time remaining	Assignment is due

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