

# ProjectProposal

*by* Thomas Reynolds

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#### Project Ideas:

URL Scanner – Finds viruses and other malicious software

URL Scanner – Detects phishing sites

URL Scanner – Website vulnerabilities (ethical hacker tool)

Application – Gives real time notification to the user when an attack is happening on their network and give information on it. (Network monitor/threat detection)

Anti-Scammer software – Would read a potential scam text or email then tell the user if it is a potential threat.

Data retrieval tools

Encryption Software - (Advanced)

Develop a machine learning model for threat detection

#### Favourite Ideas:

URL scanner software (Phishing scams/viruses)

-Scripts or online tools to take data from the website

-Save the data in files

-Use scripts to analyse that data for phishing scams or malicious software

Threat detection software (network attacks)

-Create application that identifies different types of attacks

-Implement into a network

-Test with basic attacks like a low-level denial of service attack. If it works a notification should be sent to the user.

- Take any info about where the attack came from and relay to the user.

#### Final idea:

Threat detection software

How to make final idea more original:

- Potential machine learning
- Detailed info about the attack
- Defending the network in real time
- On the device it's installed on, could potentially identify bots trying to be installed through malicious software.
- Make an app that can be installed on mobile devices and computers.
- Give the software access to the networks router so it can view the logs of the websites each users visited.

### **Updated idea:**

**Overall network threat scanner will mainly identify denial of service attacks. Will notify the user if someone on the network is accessing an unsafe site. And notifying them if there is potential malicious software on that site. A big aspect is the real time notifications, because then this tool could be very useful for a network administrator as they will be notified quickly when strange activity is happening.**

# ProjectProposal

## GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

31 /100

PROJECT PROPOSAL – ACCA6020 INDEPENDENT PROJECT

Student Thomas Reynolds  
Mark

| Intro / A&O (400 words)                                                                                                                                                                                                                                                                                       |    |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|
| Project title; Identification of a specific problem to be investigated; Well-defined aims and SMART objectives; Explaining why this project is worth doing; Discussion of what the project needs to do in order to be a success; Description any deliverables that will be produced at the end of the project | 20 | 4 |
| A good problem has been identified but lacks any defined telling about the project it's aim and SMART objectives as would be expected of a project proposal.                                                                                                                                                  |    |   |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    |
| <b>Background to the Project / Literature Review (400 words)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |    |
| <p>Description of how the work to be done by in the project relates to the work identified in the literature review; Discussion of any ethical issues raised by the project Identifying what has already been done within the field; Topic familiarity; Brief literature review using appropriate sources – 6-8 journal papers and book chapters rather than just websites; Selection of relevant models &amp; concepts</p> <p>Missing a clear literature review, with no defined background requires academic sources and analytical discussion.</p> | 20 | 5  |
| <b>Project Design (500 words)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |    |
| <p>Clear statement of which development methods are to be used and why they are appropriate; Clear statement of which tools are to be used and why they are appropriate; Clear description of how data collected will be analysed</p> <p>Concept is clear of URL scanning, but lacks any detailed methodology, tools, and analysis plan.</p>                                                                                                                                                                                                          | 30 | 12 |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|
|                                                                                                                                                                                                                                                                                                                                                                               |           |   |
| <b>Resources / Planning (200 words)</b>                                                                                                                                                                                                                                                                                                                                       |           |   |
| <p>List of any deliverables; Clear diagram showing both timing and resource use; Completed ethics form; Limited and relevant appendices</p> <p>Mentions testing, but no timeline, resource diagram, or ethic consideration.</p>                                                                                                                                               | <b>15</b> | 5 |
| <b>Document Presentation</b>                                                                                                                                                                                                                                                                                                                                                  |           |   |
| <p>Correct spelling, grammar and punctuation;<br/>Flow of narrative/fluency;<br/>Coherence; Word processed ;<br/>Correct use of referencing with bibliography; Strict word limit</p> <p>Needs reasonable clarity, and to be structured in accordance with the handbook lacks references, and proof reading. Appears to be notes for your project than a project proposal.</p> | <b>15</b> | 4 |

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| <b>TOTAL</b> | <b>100</b> | 31 |

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